

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: P956328

Luminaire Tested: **GALN-SB9A-735-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956328
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-SB9A-735-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31182 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

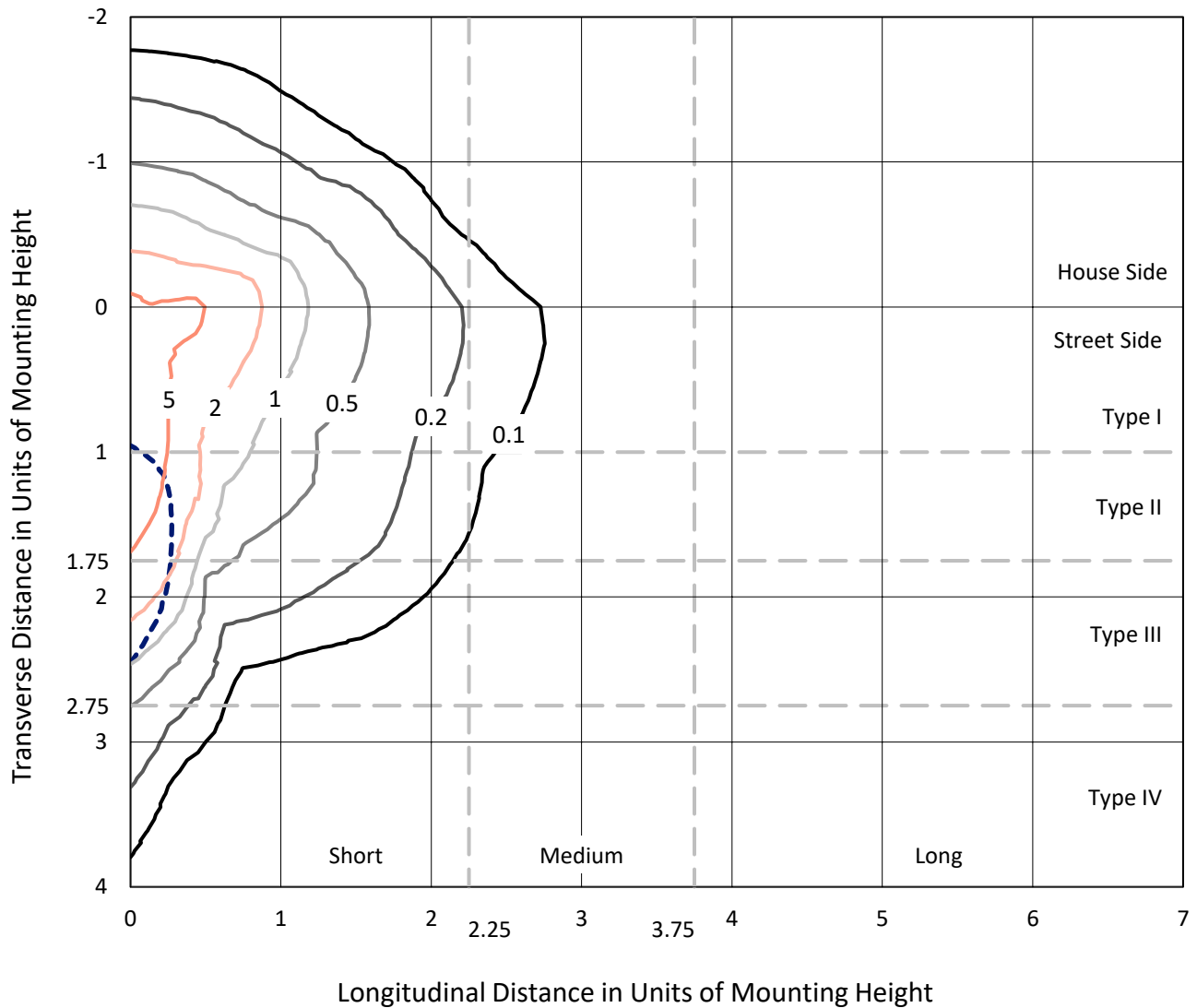
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

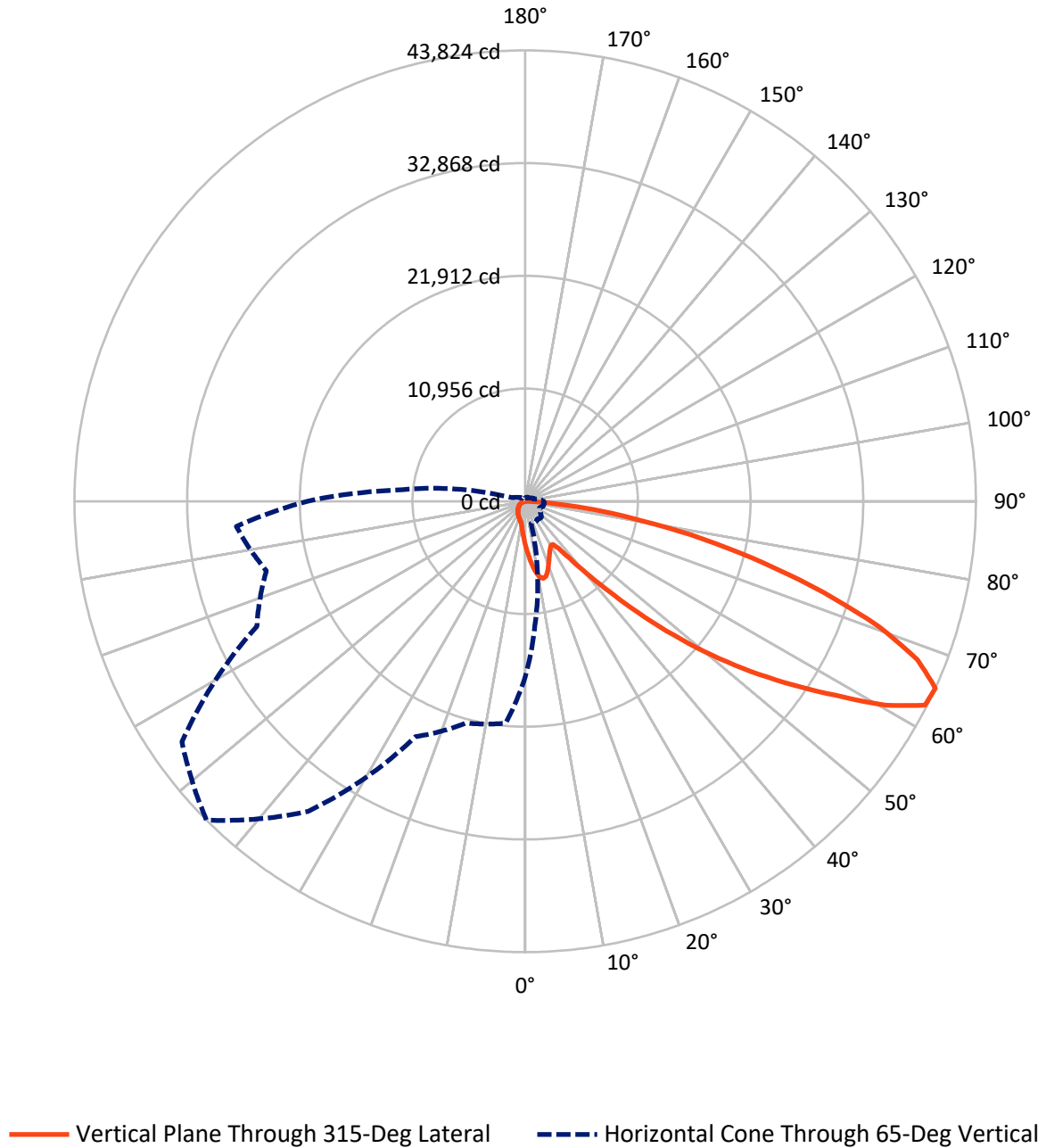
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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 | 4366.8 | 0.0 | 4366.8 |
| | % Fixture | 14.0 | 0.0 | 14.0 |
| Street Side | Lumens | 26815.2 | 0.0 | 26815.2 |
| | % Fixture | 86.0 | 0.0 | 86.0 |
| Total | Lumens | 31182.0 | 0.0 | 31182.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 425.1 | 1.4 |
| 10°-20° | 1274.3 | 4.1 |
| 20°-30° | 1877.3 | 6.0 |
| 30°-40° | 2411.8 | 7.7 |
| 40°-50° | 3900.6 | 12.5 |
| 50°-60° | 6840.2 | 21.9 |
| 60°-70° | 8558.9 | 27.4 |
| 70°-80° | 5001.4 | 16.0 |
| 80°-90° | 892.3 | 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° | 31182.0 | 100.0 |
| 0°-180° | 31182.0 | 100.0 |

Coefficient of Utilization



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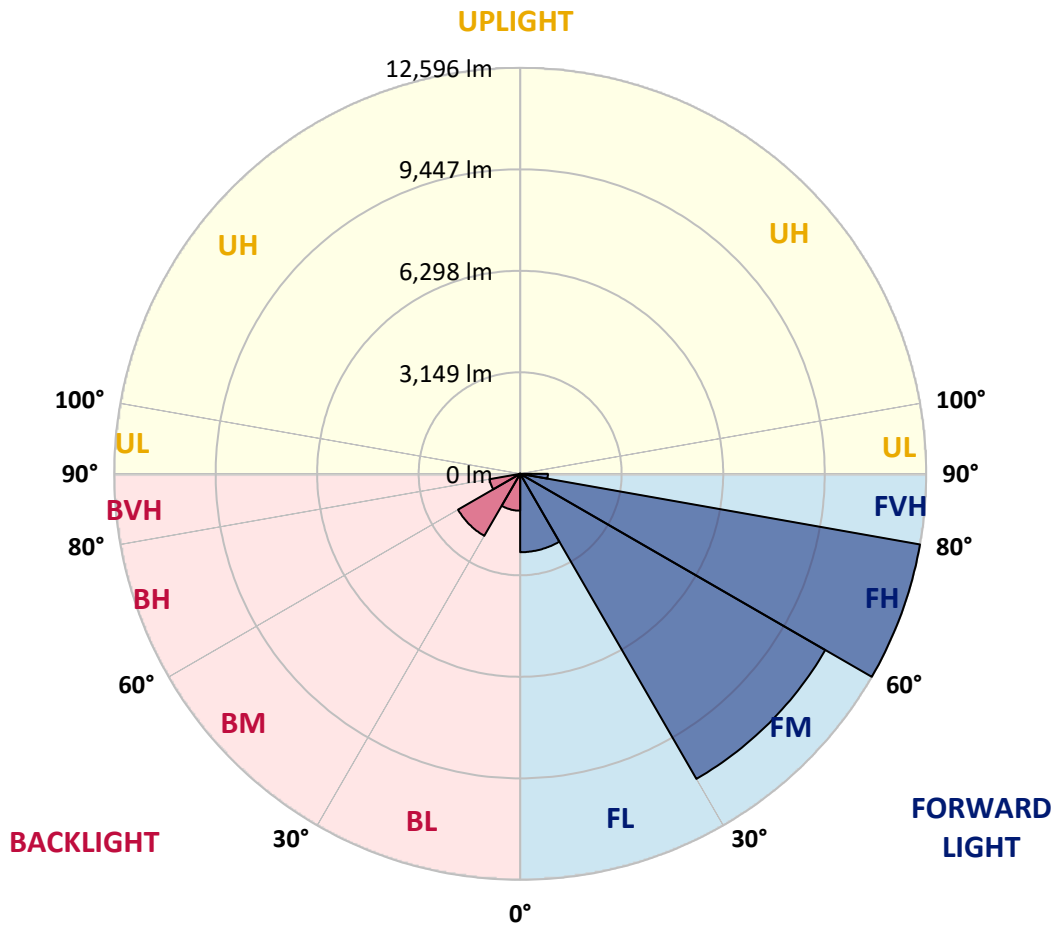
CATALOG NUMBER: GALN-SB9A-735-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2432.1 | 7.8 | | | |
| FM (30°-60°) | 10928.9 | 35.0 | | | |
| FH (60°-80°) | 12596.1 | 40.4 | | | G5 |
| FVH (80°-90°) | 858.1 | 2.8 | | | G5 |
| BL (0°-30°) | 1144.6 | 3.7 | B3/2500 | | |
| BM (30°-60°) | 2223.7 | 7.1 | B2/2500 | | |
| BH (60°-80°) | 964.2 | 3.1 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 34.3 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4317.7 | 4317.7 | 4317.7 | 4317.7 | 4317.7 | 4317.7 | 4317.7 | 4317.7 | 4317.7 | 4317.7 |
| 2.5° | 4878.4 | 4794.6 | 4745.2 | 4622.7 | 4500.3 | 4401.5 | 4268.3 | 4180.2 | 4075.0 | 3974.0 |
| 5° | 5436.9 | 5301.5 | 5138.3 | 4914.9 | 4710.8 | 4502.4 | 4300.5 | 4100.7 | 3890.2 | 3696.9 |
| 7.5° | 5909.5 | 5714.0 | 5426.1 | 5129.7 | 4869.8 | 4618.4 | 4382.2 | 4117.9 | 3862.3 | 3559.4 |
| 10° | 6270.3 | 6021.2 | 5643.1 | 5254.3 | 4955.7 | 4702.2 | 4472.4 | 4249.0 | 3991.2 | 3626.0 |
| 12.5° | 6489.5 | 6223.1 | 5774.1 | 5318.7 | 4977.2 | 4693.6 | 4515.3 | 4416.5 | 4315.6 | 3952.5 |
| 15° | 6650.6 | 6362.7 | 5866.5 | 5363.8 | 4927.8 | 4579.8 | 4448.7 | 4547.6 | 4663.6 | 4431.6 |
| 17.5° | 6818.1 | 6515.2 | 5986.8 | 5383.2 | 4794.6 | 4358.5 | 4302.7 | 4558.3 | 4826.8 | 4816.1 |
| 20° | 6977.1 | 6676.3 | 6092.1 | 5370.3 | 4579.8 | 4090.0 | 4139.4 | 4465.9 | 4777.4 | 4908.4 |
| 22.5° | 7159.7 | 6841.7 | 6193.0 | 5320.9 | 4300.5 | 3838.7 | 3993.3 | 4319.9 | 4592.7 | 4747.3 |
| 25° | 7383.1 | 7050.1 | 6334.8 | 5247.8 | 3999.8 | 3630.3 | 3845.1 | 4150.2 | 4371.4 | 4478.8 |
| 27.5° | 7623.7 | 7299.3 | 6523.8 | 5209.2 | 3757.1 | 3482.1 | 3677.6 | 3948.2 | 4145.9 | 4221.0 |
| 30° | 7922.2 | 7589.3 | 6747.2 | 5166.2 | 3598.1 | 3396.2 | 3503.6 | 3714.1 | 3907.4 | 3982.6 |
| 32.5° | 8248.8 | 7911.5 | 6962.0 | 5063.1 | 3501.4 | 3331.7 | 3333.9 | 3467.1 | 3643.2 | 3733.4 |
| 35° | 8656.9 | 8298.2 | 7191.9 | 4837.6 | 3424.1 | 3256.5 | 3168.5 | 3232.9 | 3379.0 | 3486.4 |
| 37.5° | 9239.0 | 8805.1 | 7473.3 | 4515.3 | 3310.2 | 3140.5 | 2994.5 | 3009.5 | 3121.2 | 3239.4 |
| 40° | 10042.4 | 9486.1 | 7804.1 | 4180.2 | 3147.0 | 2977.3 | 2803.3 | 2796.8 | 2878.5 | 2994.5 |
| 42.5° | 11129.4 | 10386.1 | 8201.5 | 3860.2 | 2990.2 | 2779.7 | 2601.4 | 2590.6 | 2655.1 | 2756.0 |
| 45° | 12564.3 | 11537.5 | 8689.1 | 3585.2 | 2867.7 | 2586.3 | 2410.2 | 2405.9 | 2459.6 | 2547.7 |
| 47.5° | 14401.0 | 13137.9 | 9176.7 | 3398.3 | 2803.3 | 2433.8 | 2253.4 | 2262.0 | 2309.2 | 2388.7 |
| 50° | 16778.9 | 15223.7 | 9325.0 | 3303.8 | 2803.3 | 2352.2 | 2113.7 | 2156.7 | 2195.4 | 2255.5 |
| 52.5° | 19629.5 | 17225.7 | 8835.2 | 3217.9 | 2820.5 | 2362.9 | 1995.6 | 2088.0 | 2115.9 | 2167.4 |
| 55° | 22271.6 | 18207.4 | 7595.7 | 3099.7 | 2824.8 | 2429.5 | 1894.6 | 2032.1 | 2083.7 | 2103.0 |
| 57.5° | 23805.4 | 17870.2 | 6141.5 | 2900.0 | 2807.6 | 2474.6 | 1830.2 | 1963.4 | 2062.2 | 2075.1 |
| 60° | 23513.3 | 16686.5 | 4521.8 | 2747.4 | 2680.8 | 2457.4 | 1810.9 | 1858.1 | 2014.9 | 2034.3 |
| 62.5° | 21262.0 | 14701.7 | 3138.4 | 2629.3 | 2401.6 | 2382.3 | 1804.4 | 1692.7 | 1911.8 | 1959.1 |
| 65° | 17090.4 | 11574.0 | 2216.9 | 2264.1 | 2105.2 | 2219.0 | 1770.0 | 1520.9 | 1787.2 | 1851.7 |
| 67.5° | 12398.9 | 7832.0 | 1600.3 | 1834.5 | 1907.5 | 1954.8 | 1692.7 | 1396.3 | 1645.5 | 1731.4 |
| 70° | 7956.6 | 4229.6 | 1123.5 | 1211.5 | 1606.8 | 1660.5 | 1559.5 | 1284.6 | 1501.5 | 1600.3 |
| 72.5° | 5656.0 | 2498.3 | 807.7 | 848.5 | 1291.0 | 1383.4 | 1372.6 | 1160.0 | 1334.0 | 1454.3 |
| 75° | 3903.1 | 1376.9 | 545.6 | 605.8 | 936.6 | 1123.5 | 1059.0 | 996.7 | 1129.9 | 1252.4 |
| 77.5° | 2446.7 | 616.5 | 326.5 | 421.0 | 614.4 | 882.9 | 726.1 | 771.2 | 880.7 | 994.6 |
| 80° | 1361.9 | 238.4 | 182.6 | 279.3 | 335.1 | 642.3 | 401.7 | 496.2 | 648.7 | 730.4 |
| 82.5° | 296.4 | 30.1 | 81.6 | 120.3 | 131.0 | 373.8 | 212.7 | 287.8 | 408.1 | 401.7 |
| 85° | 0.0 | 0.0 | 15.0 | 17.2 | 8.6 | 161.1 | 77.3 | 94.5 | 133.2 | 124.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.3 |
| 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° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4317.7 | 0° | 4317.7 | 4317.7 | 4317.7 | 4317.7 | 4317.7 | 4317.7 | 4317.7 | 4317.7 | 4317.7 | 4317.7 |
| 3883.8 | 2.5° | 3866.6 | 3761.3 | 3684.0 | 3645.3 | 3613.1 | 3643.2 | 3660.4 | 3660.4 | 3733.4 | 3776.4 |
| 3578.8 | 5° | 3503.6 | 3314.5 | 3170.6 | 3074.0 | 3016.0 | 3035.3 | 3056.8 | 3080.4 | 3172.8 | 3235.1 |
| 3398.3 | 7.5° | 3252.2 | 2962.2 | 2743.1 | 2607.8 | 2536.9 | 2547.7 | 2562.7 | 2582.0 | 2672.3 | 2734.5 |
| 3424.1 | 10° | 3205.0 | 2788.3 | 2478.9 | 2300.6 | 2214.7 | 2199.7 | 2191.1 | 2184.6 | 2238.3 | 2285.6 |
| 3716.2 | 12.5° | 3398.3 | 2796.8 | 2365.1 | 2148.1 | 2042.9 | 1997.7 | 1946.2 | 1905.4 | 1914.0 | 1944.0 |
| 4158.7 | 15° | 3744.2 | 2906.4 | 2328.6 | 2068.6 | 1937.6 | 1862.4 | 1802.3 | 1752.9 | 1742.1 | 1752.9 |
| 4545.4 | 17.5° | 4139.4 | 3054.6 | 2324.3 | 1999.9 | 1836.6 | 1759.3 | 1709.9 | 1664.8 | 1649.8 | 1651.9 |
| 4762.4 | 20° | 4401.5 | 3172.8 | 2311.4 | 1922.6 | 1740.0 | 1671.2 | 1628.3 | 1583.2 | 1568.1 | 1572.4 |
| 4702.2 | 22.5° | 4427.3 | 3235.1 | 2292.0 | 1836.6 | 1643.3 | 1585.3 | 1542.3 | 1501.5 | 1499.4 | 1499.4 |
| 4476.7 | 25° | 4287.6 | 3235.1 | 2251.2 | 1759.3 | 1550.9 | 1499.4 | 1460.7 | 1411.3 | 1419.9 | 1424.2 |
| 4221.0 | 27.5° | 4070.7 | 3157.7 | 2173.9 | 1697.0 | 1471.5 | 1417.8 | 1379.1 | 1334.0 | 1344.7 | 1351.2 |
| 3982.6 | 30° | 3855.9 | 3058.9 | 2081.5 | 1626.1 | 1396.3 | 1334.0 | 1306.1 | 1267.4 | 1271.7 | 1280.3 |
| 3746.3 | 32.5° | 3656.1 | 2953.7 | 1972.0 | 1568.1 | 1321.1 | 1258.8 | 1237.3 | 1194.4 | 1200.8 | 1209.4 |
| 3514.3 | 35° | 3458.5 | 2837.7 | 1843.1 | 1499.4 | 1252.4 | 1190.1 | 1172.9 | 1123.5 | 1127.8 | 1140.6 |
| 3282.3 | 37.5° | 3245.8 | 2715.2 | 1737.8 | 1430.6 | 1185.8 | 1121.3 | 1104.1 | 1052.6 | 1056.9 | 1071.9 |
| 3041.7 | 40° | 3022.4 | 2594.9 | 1634.7 | 1357.6 | 1114.9 | 1050.4 | 1035.4 | 979.5 | 983.8 | 1001.0 |
| 2805.4 | 42.5° | 2796.8 | 2463.9 | 1555.2 | 1263.1 | 1041.8 | 973.1 | 958.1 | 906.5 | 912.9 | 932.3 |
| 2599.2 | 45° | 2588.5 | 2307.1 | 1503.7 | 1157.8 | 973.1 | 895.8 | 880.7 | 833.5 | 846.4 | 867.8 |
| 2425.2 | 47.5° | 2410.2 | 2146.0 | 1482.2 | 1069.8 | 900.1 | 816.3 | 803.4 | 764.7 | 786.2 | 809.8 |
| 2277.0 | 50° | 2257.7 | 1991.3 | 1454.3 | 979.5 | 831.3 | 747.5 | 734.7 | 708.9 | 736.8 | 760.4 |
| 2176.0 | 52.5° | 2148.1 | 1815.2 | 1394.1 | 897.9 | 771.2 | 689.5 | 685.2 | 672.4 | 698.1 | 719.6 |
| 2100.9 | 55° | 2053.6 | 1632.6 | 1297.5 | 827.0 | 717.5 | 640.1 | 644.4 | 638.0 | 659.5 | 676.7 |
| 2055.7 | 57.5° | 1967.7 | 1473.6 | 1175.0 | 771.2 | 659.5 | 597.2 | 610.1 | 601.5 | 612.2 | 623.0 |
| 2008.5 | 60° | 1864.6 | 1312.5 | 1028.9 | 708.9 | 590.7 | 554.2 | 569.3 | 545.6 | 543.5 | 547.8 |
| 1922.6 | 62.5° | 1712.0 | 1095.5 | 876.4 | 631.5 | 530.6 | 507.0 | 513.4 | 468.3 | 433.9 | 433.9 |
| 1795.8 | 65° | 1499.4 | 880.7 | 734.7 | 545.6 | 461.8 | 442.5 | 438.2 | 373.8 | 326.5 | 322.2 |
| 1658.3 | 67.5° | 1252.4 | 723.9 | 610.1 | 459.7 | 384.5 | 371.6 | 375.9 | 328.7 | 281.4 | 277.1 |
| 1520.9 | 70° | 1020.4 | 599.3 | 491.9 | 367.3 | 296.4 | 309.3 | 328.7 | 281.4 | 236.3 | 229.8 |
| 1359.8 | 72.5° | 829.2 | 476.9 | 384.5 | 281.4 | 219.1 | 255.6 | 279.3 | 229.8 | 186.9 | 182.6 |
| 1160.0 | 75° | 640.1 | 350.1 | 275.0 | 191.2 | 159.0 | 197.6 | 219.1 | 167.6 | 133.2 | 126.7 |
| 897.9 | 77.5° | 427.5 | 217.0 | 154.7 | 120.3 | 94.5 | 135.3 | 146.1 | 88.1 | 77.3 | 75.2 |
| 653.0 | 80° | 259.9 | 101.0 | 66.6 | 58.0 | 32.2 | 49.4 | 58.0 | 36.5 | 40.8 | 43.0 |
| 348.0 | 82.5° | 131.0 | 27.9 | 10.7 | 2.1 | 0.0 | 0.0 | 17.2 | 8.6 | 17.2 | 21.5 |
| 94.5 | 85° | 10.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.3 | 10.7 |
| 0.0 | 87.5° | 0.0 | 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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CANDELA DISTRIBUTION (continued):

| 185° | | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 4317.7 | 0° | 4317.7 | 4317.7 | 4317.7 | 4317.7 | 4317.7 | 4317.7 | 4317.7 | 4317.7 | 4317.7 | 4317.7 |
| 3793.6 | 2.5° | 3913.9 | 4004.1 | 4090.0 | 4227.5 | 4369.3 | 4508.9 | 4650.7 | 4788.1 | 4837.6 | 4874.1 |
| 3275.9 | 5° | 3462.8 | 3632.5 | 3830.1 | 4102.9 | 4395.0 | 4695.8 | 5000.8 | 5280.1 | 5406.8 | 5492.7 |
| 2788.3 | 7.5° | 2996.6 | 3217.9 | 3501.4 | 3911.7 | 4369.3 | 4848.3 | 5327.3 | 5767.7 | 5971.8 | 6137.2 |
| 2328.6 | 10° | 2534.8 | 2775.4 | 3134.1 | 3602.4 | 4221.0 | 4908.4 | 5570.1 | 6175.8 | 6440.0 | 6648.4 |
| 1997.7 | 12.5° | 2128.8 | 2354.3 | 2730.3 | 3247.9 | 3989.0 | 4861.2 | 5709.7 | 6437.9 | 6749.4 | 6983.5 |
| 1761.5 | 15° | 1843.1 | 2002.0 | 2335.0 | 2893.5 | 3714.1 | 4708.7 | 5718.3 | 6562.5 | 6904.0 | 7148.9 |
| 1662.6 | 17.5° | 1684.1 | 1737.8 | 1954.8 | 2532.6 | 3409.1 | 4508.9 | 5638.8 | 6605.5 | 6970.6 | 7198.3 |
| 1574.6 | 20° | 1598.2 | 1606.8 | 1666.9 | 2064.3 | 3018.1 | 4322.0 | 5563.6 | 6648.4 | 7032.9 | 7224.1 |
| 1512.3 | 22.5° | 1529.5 | 1529.5 | 1544.5 | 1688.4 | 2513.3 | 4098.6 | 5540.0 | 6723.6 | 7118.8 | 7237.0 |
| 1441.4 | 25° | 1467.2 | 1467.2 | 1471.5 | 1510.1 | 1991.3 | 3757.1 | 5524.9 | 6839.6 | 7237.0 | 7269.2 |
| 1370.5 | 27.5° | 1402.7 | 1404.9 | 1404.9 | 1426.3 | 1604.6 | 3293.1 | 5460.5 | 6990.0 | 7378.8 | 7312.2 |
| 1301.8 | 30° | 1338.3 | 1342.6 | 1342.6 | 1357.6 | 1419.9 | 2749.6 | 5333.8 | 7170.4 | 7563.5 | 7368.0 |
| 1233.0 | 32.5° | 1273.8 | 1278.1 | 1278.1 | 1291.0 | 1336.1 | 2195.4 | 5174.8 | 7335.8 | 7750.4 | 7391.7 |
| 1166.4 | 35° | 1207.2 | 1213.7 | 1209.4 | 1226.6 | 1273.8 | 1746.4 | 4972.9 | 7501.2 | 7952.3 | 7466.8 |
| 1102.0 | 37.5° | 1140.6 | 1144.9 | 1142.8 | 1160.0 | 1213.7 | 1508.0 | 4738.7 | 7625.8 | 8227.3 | 7634.4 |
| 1033.2 | 40° | 1074.1 | 1071.9 | 1071.9 | 1091.2 | 1149.2 | 1439.2 | 4444.4 | 7823.4 | 8622.5 | 7928.7 |
| 964.5 | 42.5° | 1005.3 | 1005.3 | 1001.0 | 1022.5 | 1093.4 | 1387.7 | 4163.0 | 8177.9 | 9198.2 | 8397.0 |
| 900.1 | 45° | 943.0 | 940.9 | 932.3 | 951.6 | 1039.7 | 1297.5 | 4064.2 | 8839.5 | 10048.9 | 9155.3 |
| 835.6 | 47.5° | 882.9 | 880.7 | 859.2 | 876.4 | 975.2 | 1215.8 | 4433.7 | 9922.1 | 11228.2 | 10270.1 |
| 784.1 | 50° | 829.2 | 831.3 | 790.5 | 805.5 | 910.8 | 1153.5 | 5235.0 | 11327.0 | 12794.2 | 11771.7 |
| 741.1 | 52.5° | 779.8 | 779.8 | 726.1 | 734.7 | 831.3 | 1097.7 | 5997.5 | 12850.0 | 14860.7 | 13866.1 |
| 696.0 | 55° | 730.4 | 726.1 | 665.9 | 670.2 | 751.8 | 1018.2 | 6111.4 | 14336.5 | 17679.0 | 17017.4 |
| 646.6 | 57.5° | 674.5 | 665.9 | 610.1 | 610.1 | 678.8 | 960.2 | 5297.2 | 15479.3 | 21176.1 | 21648.7 |
| 554.2 | 60° | 605.8 | 599.3 | 562.8 | 552.1 | 620.8 | 1011.8 | 3737.7 | 15612.5 | 23431.6 | 27807.3 |
| 440.4 | 62.5° | 517.7 | 526.3 | 507.0 | 491.9 | 565.0 | 1050.4 | 2214.7 | 14540.6 | 22886.0 | 29766.4 |
| 341.6 | 65° | 408.1 | 442.5 | 438.2 | 427.5 | 620.8 | 885.0 | 1308.2 | 12482.7 | 21212.6 | 28185.4 |
| 298.6 | 67.5° | 348.0 | 371.6 | 365.2 | 365.2 | 650.9 | 672.4 | 822.7 | 9752.4 | 18909.8 | 26310.1 |
| 249.2 | 70° | 296.4 | 320.1 | 296.4 | 296.4 | 491.9 | 408.1 | 569.3 | 6809.5 | 16424.5 | 24235.0 |
| 199.8 | 72.5° | 244.9 | 268.5 | 242.7 | 225.6 | 393.1 | 305.0 | 416.7 | 4255.4 | 14065.9 | 22074.0 |
| 141.8 | 75° | 186.9 | 214.8 | 195.5 | 174.0 | 259.9 | 227.7 | 315.8 | 2472.5 | 11653.5 | 18886.2 |
| 85.9 | 77.5° | 118.1 | 154.7 | 146.1 | 122.4 | 191.2 | 165.4 | 227.7 | 1471.5 | 8992.0 | 14757.5 |
| 51.6 | 80° | 73.0 | 79.5 | 81.6 | 77.3 | 109.6 | 111.7 | 154.7 | 837.8 | 6154.3 | 10285.2 |
| 32.2 | 82.5° | 47.3 | 47.3 | 36.5 | 40.8 | 53.7 | 64.4 | 88.1 | 315.8 | 3617.4 | 6261.8 |
| 19.3 | 85° | 34.4 | 30.1 | 19.3 | 19.3 | 25.8 | 32.2 | 34.4 | 96.7 | 1467.2 | 2472.5 |
| 8.6 | 87.5° | 17.2 | 15.0 | 6.4 | 8.6 | 12.9 | 10.7 | 8.6 | 4.3 | 369.5 | 790.5 |
| 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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| 4317.7 | 0° | 4317.7 | 4317.7 | 4317.7 | 4317.7 | 4317.7 | 4317.7 | 4317.7 | 4317.7 |
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| 5686.1 | 5° | 5885.8 | 5928.8 | 5939.5 | 5918.1 | 5802.1 | 5716.1 | 5486.3 | 5436.9 |
| 6431.5 | 7.5° | 6697.8 | 6783.7 | 6783.7 | 6732.2 | 6543.2 | 6367.0 | 6034.1 | 5909.5 |
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| 7529.1 | 15° | 7655.9 | 7628.0 | 7570.0 | 7554.9 | 7443.2 | 7249.9 | 6852.5 | 6650.6 |
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| 7073.7 | 22.5° | 6495.9 | 6051.2 | 5956.7 | 6274.6 | 6882.6 | 7411.0 | 7333.7 | 7159.7 |
| 6820.3 | 25° | 6064.1 | 5617.3 | 5522.8 | 5819.2 | 6541.0 | 7385.2 | 7531.3 | 7383.1 |
| 6577.5 | 27.5° | 5703.2 | 5271.5 | 5183.4 | 5479.8 | 6212.3 | 7312.2 | 7728.9 | 7623.7 |
| 6336.9 | 30° | 5424.0 | 5024.4 | 4960.0 | 5245.7 | 5928.8 | 7222.0 | 7980.2 | 7922.2 |
| 6113.5 | 32.5° | 5260.7 | 4968.6 | 4992.2 | 5226.4 | 5776.3 | 7123.1 | 8220.8 | 8248.8 |
| 6004.0 | 35° | 5421.8 | 5434.7 | 5640.9 | 5737.6 | 5918.1 | 7108.1 | 8547.3 | 8656.9 |
| 6135.0 | 37.5° | 6223.1 | 6669.9 | 7097.4 | 7017.9 | 6611.9 | 7282.1 | 9035.0 | 9239.0 |
| 6706.4 | 40° | 7587.1 | 8504.4 | 9198.2 | 8895.3 | 7872.8 | 7814.8 | 9737.4 | 10042.4 |
| 7720.3 | 42.5° | 9254.1 | 10809.3 | 11952.1 | 11140.1 | 9499.0 | 8747.1 | 10740.6 | 11129.4 |
| 8946.9 | 45° | 11013.4 | 13651.3 | 15451.4 | 13763.0 | 11232.5 | 10053.2 | 12259.3 | 12564.3 |
| 10096.1 | 47.5° | 12867.2 | 17105.4 | 19434.0 | 16671.5 | 12839.3 | 11539.7 | 14330.1 | 14401.0 |
| 11185.2 | 50° | 14895.0 | 20892.6 | 23493.9 | 19577.9 | 14390.2 | 13243.1 | 16860.5 | 16778.9 |
| 12454.8 | 52.5° | 16826.2 | 24787.1 | 27467.9 | 22497.2 | 15752.1 | 15356.9 | 19797.0 | 19629.5 |
| 14190.4 | 55° | 18669.3 | 28679.5 | 31465.6 | 25302.6 | 17036.7 | 18149.4 | 23285.6 | 22271.6 |
| 16693.0 | 57.5° | 20806.6 | 32178.7 | 35585.7 | 28121.0 | 18832.5 | 21775.4 | 27186.5 | 23805.4 |
| 21485.4 | 60° | 23966.5 | 36154.9 | 40244.9 | 31983.3 | 22248.0 | 25586.2 | 28585.0 | 23513.3 |
| 27225.2 | 62.5° | 28000.7 | 39811.0 | 43632.5 | 35768.2 | 25678.6 | 26303.7 | 26524.9 | 21262.0 |
| 26054.5 | 65° | 28784.7 | 40736.8 | 43823.7 | 36780.0 | 25236.0 | 22312.5 | 21655.1 | 17090.4 |
| 23272.7 | 67.5° | 26705.4 | 39063.5 | 41151.4 | 34896.1 | 22323.2 | 17242.9 | 16250.5 | 12398.9 |
| 21446.8 | 70° | 24372.5 | 35873.5 | 36494.3 | 31693.3 | 19633.8 | 12682.5 | 10974.7 | 7956.6 |
| 20196.6 | 72.5° | 21981.7 | 31618.1 | 30333.5 | 27523.8 | 17255.8 | 9234.7 | 7915.8 | 5656.0 |
| 18415.8 | 75° | 19141.8 | 26022.3 | 23893.5 | 22868.8 | 14287.1 | 7247.7 | 5726.9 | 3903.1 |
| 15840.2 | 77.5° | 15328.9 | 18317.0 | 17747.7 | 17726.2 | 10736.3 | 5295.1 | 3821.5 | 2446.7 |
| 12375.3 | 80° | 10813.6 | 11887.7 | 11597.7 | 13350.5 | 7202.6 | 3840.8 | 2300.6 | 1361.9 |
| 8613.9 | 82.5° | 5235.0 | 6573.2 | 6747.2 | 7950.2 | 3503.6 | 2259.8 | 530.6 | 296.4 |
| 3368.2 | 85° | 2049.3 | 3170.6 | 2674.4 | 3018.1 | 983.8 | 629.4 | 12.9 | 0.0 |
| 554.2 | 87.5° | 229.8 | 367.3 | 337.3 | 266.4 | 120.3 | 25.8 | 0.0 | 0.0 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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