

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: P956265

Luminaire Tested: **GALN-SB9A-722-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956265
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-722-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2200K, 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: 25759 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

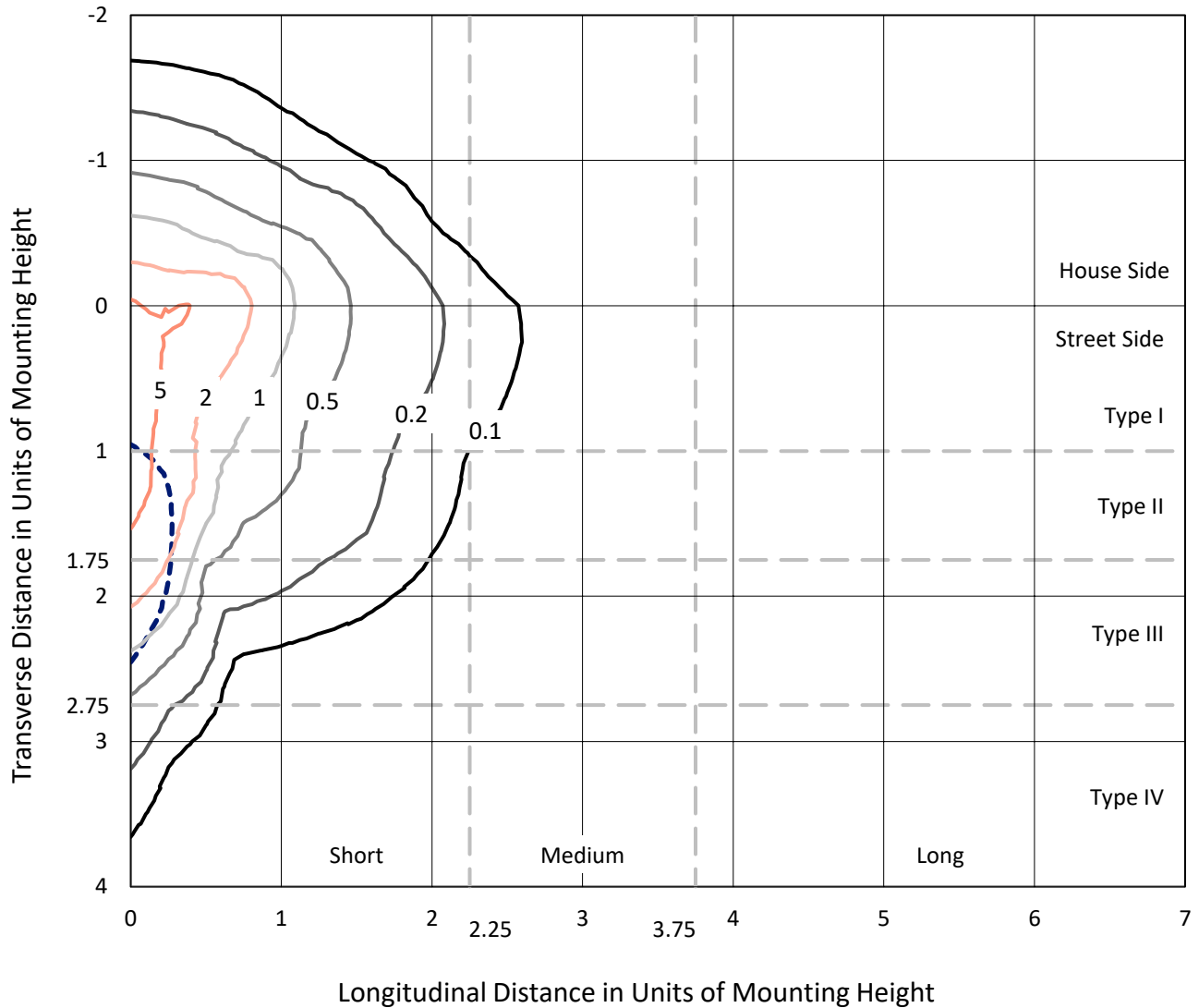
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

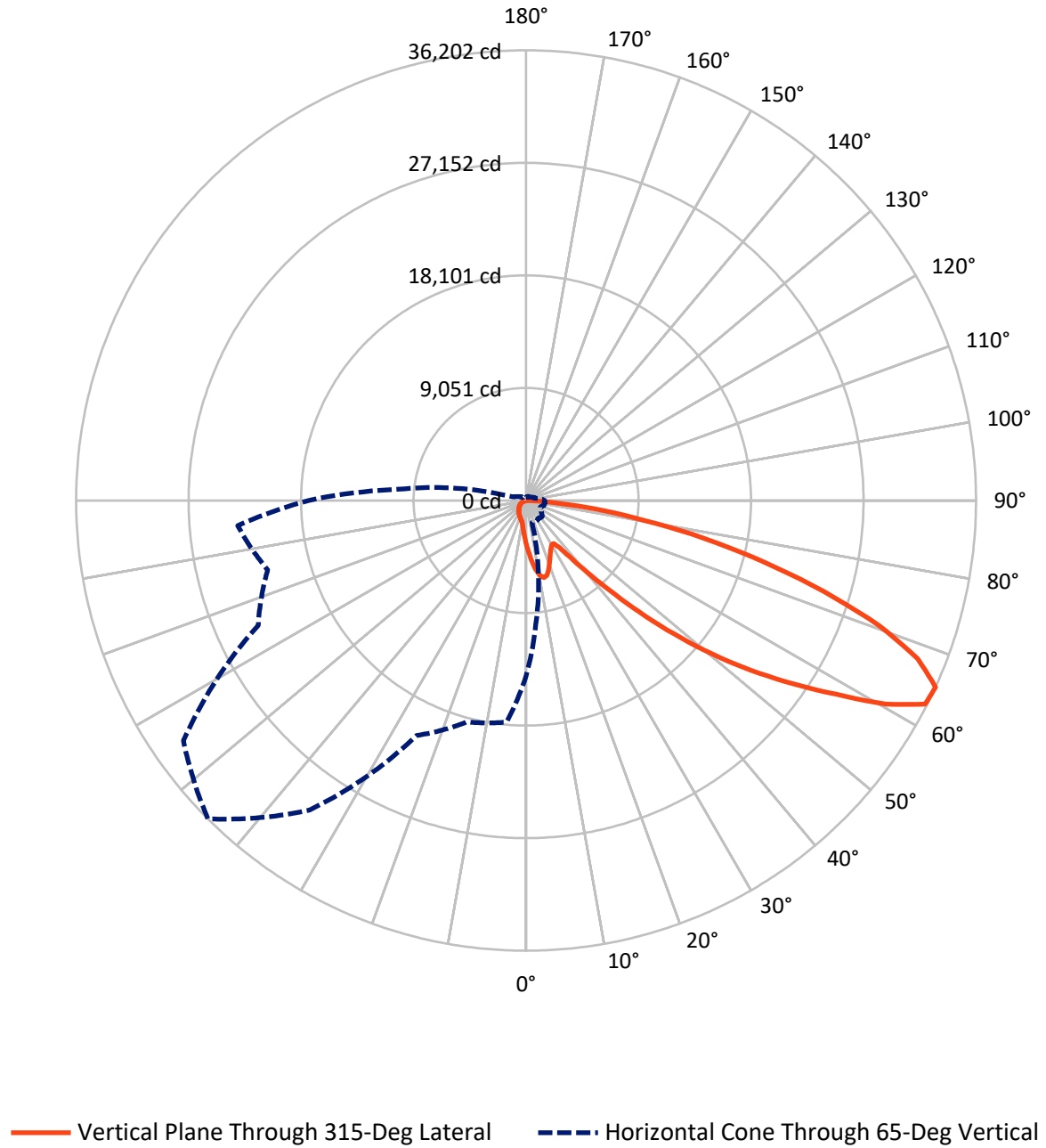
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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 | 3607.4 | 0.0 | 3607.4 |
| | % Fixture | 14.0 | 0.0 | 14.0 |
| Street Side | Lumens | 22151.6 | 0.0 | 22151.6 |
| | % Fixture | 86.0 | 0.0 | 86.0 |
| Total | Lumens | 25759.0 | 0.0 | 25759.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 351.2 | 1.4 |
| 10°-20° | 1052.7 | 4.1 |
| 20°-30° | 1550.8 | 6.0 |
| 30°-40° | 1992.4 | 7.7 |
| 40°-50° | 3222.3 | 12.5 |
| 50°-60° | 5650.6 | 21.9 |
| 60°-70° | 7070.4 | 27.4 |
| 70°-80° | 4131.6 | 16.0 |
| 80°-90° | 737.1 | 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° | 25759.0 | 100.0 |
| 0°-180° | 25759.0 | 100.0 |

Coefficient of Utilization



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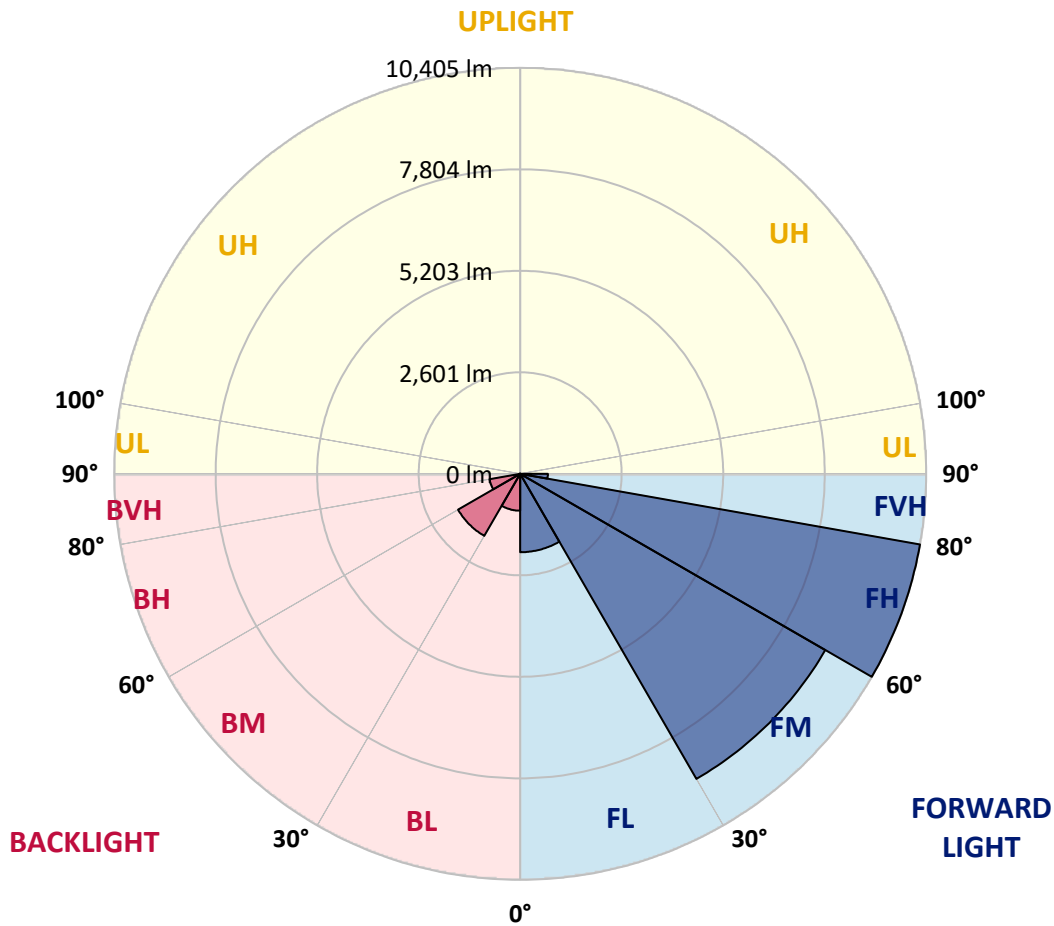
CATALOG NUMBER: GALN-SB9A-722-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2009.1 | 7.8 | | | |
| FM (30°-60°) | 9028.2 | 35.0 | | | |
| FH (60°-80°) | 10405.5 | 40.4 | | | G4/12000 |
| FVH (80°-90°) | 708.8 | 2.8 | | | G4/750 |
| BL (0°-30°) | 945.6 | 3.7 | B2/1000 | | |
| BM (30°-60°) | 1837.0 | 7.1 | B2/2500 | | |
| BH (60°-80°) | 796.5 | 3.1 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 28.3 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3566.8 | 3566.8 | 3566.8 | 3566.8 | 3566.8 | 3566.8 | 3566.8 | 3566.8 | 3566.8 | 3566.8 | 3566.8 |
| 2.5° | 4029.9 | 3960.7 | 3919.9 | 3818.8 | 3717.6 | 3636.0 | 3526.0 | 3453.2 | 3366.3 | 3282.9 | 3208.3 |
| 5° | 4491.3 | 4379.5 | 4244.7 | 4060.1 | 3891.5 | 3719.4 | 3552.6 | 3387.6 | 3213.7 | 3054.0 | 2956.4 |
| 7.5° | 4881.7 | 4720.2 | 4482.5 | 4237.6 | 4022.9 | 3815.2 | 3620.0 | 3401.8 | 3190.6 | 2940.4 | 2807.3 |
| 10° | 5179.8 | 4974.0 | 4661.7 | 4340.5 | 4093.8 | 3884.4 | 3694.6 | 3510.0 | 3297.1 | 2995.4 | 2828.6 |
| 12.5° | 5360.8 | 5140.8 | 4769.9 | 4393.7 | 4111.6 | 3877.3 | 3730.1 | 3648.4 | 3565.0 | 3265.1 | 3069.9 |
| 15° | 5493.9 | 5256.1 | 4846.2 | 4431.0 | 4070.8 | 3783.3 | 3675.0 | 3756.7 | 3852.5 | 3660.8 | 3435.5 |
| 17.5° | 5632.3 | 5382.1 | 4945.6 | 4447.0 | 3960.7 | 3600.5 | 3554.4 | 3765.5 | 3987.4 | 3978.5 | 3754.9 |
| 20° | 5763.7 | 5515.2 | 5032.6 | 4436.3 | 3783.3 | 3378.7 | 3419.5 | 3689.2 | 3946.5 | 4054.8 | 3934.1 |
| 22.5° | 5914.5 | 5651.9 | 5116.0 | 4395.5 | 3552.6 | 3171.1 | 3298.8 | 3568.6 | 3793.9 | 3921.7 | 3884.4 |
| 25° | 6099.0 | 5824.0 | 5233.1 | 4335.2 | 3304.2 | 2998.9 | 3176.4 | 3428.4 | 3611.2 | 3699.9 | 3698.1 |
| 27.5° | 6297.8 | 6029.8 | 5389.2 | 4303.2 | 3103.6 | 2876.5 | 3038.0 | 3261.6 | 3424.8 | 3486.9 | 3486.9 |
| 30° | 6544.5 | 6269.4 | 5573.8 | 4267.7 | 2972.3 | 2805.5 | 2894.3 | 3068.2 | 3227.9 | 3290.0 | 3290.0 |
| 32.5° | 6814.2 | 6535.6 | 5751.2 | 4182.6 | 2892.5 | 2752.3 | 2754.1 | 2864.1 | 3009.6 | 3084.1 | 3094.8 |
| 35° | 7151.3 | 6855.0 | 5941.1 | 3996.2 | 2828.6 | 2690.2 | 2617.4 | 2670.7 | 2791.3 | 2880.1 | 2903.1 |
| 37.5° | 7632.2 | 7273.8 | 6173.6 | 3730.1 | 2734.5 | 2594.4 | 2473.7 | 2486.1 | 2578.4 | 2676.0 | 2711.5 |
| 40° | 8295.9 | 7836.3 | 6446.9 | 3453.2 | 2599.7 | 2459.5 | 2315.8 | 2310.4 | 2377.9 | 2473.7 | 2512.7 |
| 42.5° | 9193.8 | 8579.8 | 6775.1 | 3188.8 | 2470.1 | 2296.2 | 2149.0 | 2140.1 | 2193.3 | 2276.7 | 2317.5 |
| 45° | 10379.2 | 9531.0 | 7178.0 | 2961.7 | 2369.0 | 2136.5 | 1991.0 | 1987.5 | 2031.8 | 2104.6 | 2147.2 |
| 47.5° | 11896.4 | 10853.0 | 7580.8 | 2807.3 | 2315.8 | 2010.5 | 1861.5 | 1868.6 | 1907.6 | 1973.3 | 2003.4 |
| 50° | 13860.8 | 12576.1 | 7703.2 | 2729.2 | 2315.8 | 1943.1 | 1746.1 | 1781.6 | 1813.6 | 1863.3 | 1881.0 |
| 52.5° | 16215.6 | 14229.9 | 7298.6 | 2658.2 | 2330.0 | 1952.0 | 1648.5 | 1724.8 | 1747.9 | 1790.5 | 1797.6 |
| 55° | 18398.3 | 15040.9 | 6274.7 | 2560.6 | 2333.5 | 2007.0 | 1565.1 | 1678.7 | 1721.3 | 1737.3 | 1735.5 |
| 57.5° | 19665.3 | 14762.3 | 5073.4 | 2395.6 | 2319.3 | 2044.3 | 1511.9 | 1621.9 | 1703.5 | 1714.2 | 1698.2 |
| 60° | 19424.0 | 13784.5 | 3735.4 | 2269.6 | 2214.6 | 2030.1 | 1495.9 | 1535.0 | 1664.5 | 1680.5 | 1659.2 |
| 62.5° | 17564.3 | 12144.9 | 2592.6 | 2172.0 | 1983.9 | 1967.9 | 1490.6 | 1398.3 | 1579.3 | 1618.4 | 1588.2 |
| 65° | 14118.1 | 9561.1 | 1831.3 | 1870.4 | 1739.0 | 1833.1 | 1462.2 | 1256.4 | 1476.4 | 1529.6 | 1483.5 |
| 67.5° | 10242.6 | 6469.9 | 1322.0 | 1515.4 | 1575.8 | 1614.8 | 1398.3 | 1153.4 | 1359.3 | 1430.3 | 1369.9 |
| 70° | 6572.8 | 3494.0 | 928.1 | 1000.8 | 1327.3 | 1371.7 | 1288.3 | 1061.2 | 1240.4 | 1322.0 | 1256.4 |
| 72.5° | 4672.3 | 2063.8 | 667.2 | 700.9 | 1066.5 | 1142.8 | 1133.9 | 958.2 | 1102.0 | 1201.4 | 1123.3 |
| 75° | 3224.3 | 1137.5 | 450.7 | 500.4 | 773.7 | 928.1 | 874.8 | 823.4 | 933.4 | 1034.5 | 958.2 |
| 77.5° | 2021.2 | 509.3 | 269.7 | 347.8 | 507.5 | 729.3 | 599.8 | 637.1 | 727.6 | 821.6 | 741.8 |
| 80° | 1125.0 | 197.0 | 150.8 | 230.7 | 276.8 | 530.6 | 331.8 | 409.9 | 535.9 | 603.3 | 539.5 |
| 82.5° | 244.9 | 24.8 | 67.4 | 99.4 | 108.2 | 308.8 | 175.7 | 237.8 | 337.2 | 331.8 | 287.5 |
| 85° | 0.0 | 0.0 | 12.4 | 14.2 | 7.1 | 133.1 | 63.9 | 78.1 | 110.0 | 102.9 | 78.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.5 | 0.0 |
| 90° | 0.0 | 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):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3566.8 | 3566.8 | 3566.8 | 3566.8 | 3566.8 | 3566.8 | 3566.8 | 3566.8 | 3566.8 | 3566.8 | 3566.8 |
| 2.5° | 3194.1 | 3107.2 | 3043.3 | 3011.4 | 2984.8 | 3009.6 | 3023.8 | 3023.8 | 3084.1 | 3119.6 | 3133.8 |
| 5° | 2894.3 | 2738.1 | 2619.2 | 2539.3 | 2491.4 | 2507.4 | 2525.2 | 2544.7 | 2621.0 | 2672.4 | 2706.2 |
| 7.5° | 2686.6 | 2447.1 | 2266.1 | 2154.3 | 2095.7 | 2104.6 | 2117.0 | 2133.0 | 2207.5 | 2259.0 | 2303.3 |
| 10° | 2647.6 | 2303.3 | 2047.8 | 1900.5 | 1829.5 | 1817.1 | 1810.0 | 1804.7 | 1849.1 | 1888.1 | 1923.6 |
| 12.5° | 2807.3 | 2310.4 | 1953.8 | 1774.5 | 1687.6 | 1650.3 | 1607.7 | 1574.0 | 1581.1 | 1605.9 | 1650.3 |
| 15° | 3093.0 | 2400.9 | 1923.6 | 1708.9 | 1600.6 | 1538.5 | 1488.8 | 1448.0 | 1439.1 | 1448.0 | 1455.1 |
| 17.5° | 3419.5 | 2523.4 | 1920.0 | 1652.1 | 1517.2 | 1453.3 | 1412.5 | 1375.3 | 1362.8 | 1364.6 | 1373.5 |
| 20° | 3636.0 | 2621.0 | 1909.4 | 1588.2 | 1437.4 | 1380.6 | 1345.1 | 1307.8 | 1295.4 | 1299.0 | 1300.7 |
| 22.5° | 3657.3 | 2672.4 | 1893.4 | 1517.2 | 1357.5 | 1309.6 | 1274.1 | 1240.4 | 1238.6 | 1238.6 | 1249.3 |
| 25° | 3542.0 | 2672.4 | 1859.7 | 1453.3 | 1281.2 | 1238.6 | 1206.7 | 1165.9 | 1173.0 | 1176.5 | 1190.7 |
| 27.5° | 3362.7 | 2608.6 | 1795.8 | 1401.9 | 1215.6 | 1171.2 | 1139.2 | 1102.0 | 1110.9 | 1116.2 | 1132.1 |
| 30° | 3185.3 | 2526.9 | 1719.5 | 1343.3 | 1153.4 | 1102.0 | 1078.9 | 1047.0 | 1050.5 | 1057.6 | 1075.4 |
| 32.5° | 3020.2 | 2440.0 | 1629.0 | 1295.4 | 1091.3 | 1039.9 | 1022.1 | 986.6 | 992.0 | 999.1 | 1018.6 |
| 35° | 2857.0 | 2344.1 | 1522.5 | 1238.6 | 1034.5 | 983.1 | 968.9 | 928.1 | 931.6 | 942.3 | 963.6 |
| 37.5° | 2681.3 | 2243.0 | 1435.6 | 1181.8 | 979.5 | 926.3 | 912.1 | 869.5 | 873.1 | 885.5 | 910.3 |
| 40° | 2496.8 | 2143.6 | 1350.4 | 1121.5 | 921.0 | 867.7 | 855.3 | 809.2 | 812.7 | 826.9 | 853.5 |
| 42.5° | 2310.4 | 2035.4 | 1284.8 | 1043.4 | 860.6 | 803.9 | 791.4 | 748.8 | 754.2 | 770.1 | 796.8 |
| 45° | 2138.3 | 1905.8 | 1242.2 | 956.5 | 803.9 | 740.0 | 727.6 | 688.5 | 699.2 | 716.9 | 743.5 |
| 47.5° | 1991.0 | 1772.8 | 1224.4 | 883.7 | 743.5 | 674.3 | 663.7 | 631.7 | 649.5 | 669.0 | 690.3 |
| 50° | 1865.0 | 1645.0 | 1201.4 | 809.2 | 686.7 | 617.5 | 606.9 | 585.6 | 608.7 | 628.2 | 647.7 |
| 52.5° | 1774.5 | 1499.5 | 1151.7 | 741.8 | 637.1 | 569.6 | 566.1 | 555.4 | 576.7 | 594.5 | 612.2 |
| 55° | 1696.4 | 1348.6 | 1071.8 | 683.2 | 592.7 | 528.8 | 532.4 | 527.0 | 544.8 | 559.0 | 574.9 |
| 57.5° | 1625.5 | 1217.3 | 970.7 | 637.1 | 544.8 | 493.3 | 504.0 | 496.9 | 505.7 | 514.6 | 534.1 |
| 60° | 1540.3 | 1084.2 | 850.0 | 585.6 | 488.0 | 457.8 | 470.2 | 450.7 | 449.0 | 452.5 | 457.8 |
| 62.5° | 1414.3 | 905.0 | 724.0 | 521.7 | 438.3 | 418.8 | 424.1 | 386.8 | 358.5 | 358.5 | 363.8 |
| 65° | 1238.6 | 727.6 | 606.9 | 450.7 | 381.5 | 365.6 | 362.0 | 308.8 | 269.7 | 266.2 | 282.1 |
| 67.5° | 1034.5 | 598.0 | 504.0 | 379.7 | 317.6 | 307.0 | 310.5 | 271.5 | 232.5 | 228.9 | 246.7 |
| 70° | 842.9 | 495.1 | 406.4 | 303.4 | 244.9 | 255.5 | 271.5 | 232.5 | 195.2 | 189.9 | 205.8 |
| 72.5° | 685.0 | 393.9 | 317.6 | 232.5 | 181.0 | 211.2 | 230.7 | 189.9 | 154.4 | 150.8 | 165.0 |
| 75° | 528.8 | 289.2 | 227.1 | 157.9 | 131.3 | 163.3 | 181.0 | 138.4 | 110.0 | 104.7 | 117.1 |
| 77.5° | 353.1 | 179.2 | 127.8 | 99.4 | 78.1 | 111.8 | 120.7 | 72.8 | 63.9 | 62.1 | 71.0 |
| 80° | 214.7 | 83.4 | 55.0 | 47.9 | 26.6 | 40.8 | 47.9 | 30.2 | 33.7 | 35.5 | 42.6 |
| 82.5° | 108.2 | 23.1 | 8.9 | 1.8 | 0.0 | 0.0 | 14.2 | 7.1 | 14.2 | 17.7 | 26.6 |
| 85° | 8.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.5 | 8.9 | 16.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.1 |
| 90° | 0.0 | 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):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0° | 3566.8 | 3566.8 | 3566.8 | 3566.8 | 3566.8 | 3566.8 | 3566.8 | 3566.8 | 3566.8 | 3566.8 | 3566.8 |
| 2.5° | 3233.2 | 3307.7 | 3378.7 | 3492.3 | 3609.4 | 3724.7 | 3841.8 | 3955.4 | 3996.2 | 4026.4 | 4093.8 |
| 5° | 2860.5 | 3000.7 | 3164.0 | 3389.3 | 3630.7 | 3879.1 | 4131.1 | 4361.8 | 4466.5 | 4537.5 | 4697.2 |
| 7.5° | 2475.5 | 2658.2 | 2892.5 | 3231.4 | 3609.4 | 4005.1 | 4400.8 | 4764.6 | 4933.2 | 5069.8 | 5312.9 |
| 10° | 2093.9 | 2292.7 | 2589.0 | 2975.9 | 3486.9 | 4054.8 | 4601.3 | 5101.8 | 5320.0 | 5492.2 | 5822.2 |
| 12.5° | 1758.6 | 1944.9 | 2255.4 | 2683.1 | 3295.3 | 4015.8 | 4716.7 | 5318.3 | 5575.6 | 5769.0 | 6131.0 |
| 15° | 1522.5 | 1653.9 | 1928.9 | 2390.3 | 3068.2 | 3889.8 | 4723.8 | 5421.2 | 5703.3 | 5905.6 | 6219.7 |
| 17.5° | 1391.2 | 1435.6 | 1614.8 | 2092.2 | 2816.2 | 3724.7 | 4658.1 | 5456.7 | 5758.3 | 5946.4 | 6164.7 |
| 20° | 1320.2 | 1327.3 | 1377.0 | 1705.3 | 2493.2 | 3570.3 | 4596.0 | 5492.2 | 5809.8 | 5967.7 | 6033.4 |
| 22.5° | 1263.5 | 1263.5 | 1275.9 | 1394.8 | 2076.2 | 3385.8 | 4576.5 | 5554.3 | 5880.8 | 5978.4 | 5843.5 |
| 25° | 1212.0 | 1212.0 | 1215.6 | 1247.5 | 1645.0 | 3103.6 | 4564.1 | 5650.1 | 5978.4 | 6005.0 | 5634.1 |
| 27.5° | 1158.8 | 1160.5 | 1160.5 | 1178.3 | 1325.6 | 2720.3 | 4510.8 | 5774.3 | 6095.5 | 6040.5 | 5433.6 |
| 30° | 1105.5 | 1109.1 | 1109.1 | 1121.5 | 1173.0 | 2271.4 | 4406.1 | 5923.4 | 6248.1 | 6086.6 | 5234.9 |
| 32.5° | 1052.3 | 1055.8 | 1055.8 | 1066.5 | 1103.8 | 1813.6 | 4274.8 | 6060.0 | 6402.5 | 6106.1 | 5050.3 |
| 35° | 997.3 | 1002.6 | 999.1 | 1013.3 | 1052.3 | 1442.7 | 4108.0 | 6196.6 | 6569.3 | 6168.3 | 4959.8 |
| 37.5° | 942.3 | 945.8 | 944.0 | 958.2 | 1002.6 | 1245.7 | 3914.6 | 6299.6 | 6796.4 | 6306.7 | 5068.0 |
| 40° | 887.3 | 885.5 | 885.5 | 901.5 | 949.4 | 1188.9 | 3671.5 | 6462.8 | 7122.9 | 6549.8 | 5540.1 |
| 42.5° | 830.5 | 830.5 | 826.9 | 844.7 | 903.2 | 1146.3 | 3439.0 | 6755.6 | 7598.5 | 6936.6 | 6377.6 |
| 45° | 779.0 | 777.2 | 770.1 | 786.1 | 858.9 | 1071.8 | 3357.4 | 7302.2 | 8301.2 | 7563.0 | 7390.9 |
| 47.5° | 729.3 | 727.6 | 709.8 | 724.0 | 805.6 | 1004.4 | 3662.6 | 8196.5 | 9275.4 | 8484.0 | 8340.3 |
| 50° | 685.0 | 686.7 | 653.0 | 665.4 | 752.4 | 952.9 | 4324.5 | 9357.1 | 10569.1 | 9724.4 | 9240.0 |
| 52.5° | 644.2 | 644.2 | 599.8 | 606.9 | 686.7 | 906.8 | 4954.5 | 10615.2 | 12276.2 | 11454.6 | 10288.7 |
| 55° | 603.3 | 599.8 | 550.1 | 553.7 | 621.1 | 841.1 | 5048.5 | 11843.2 | 14604.3 | 14057.8 | 11722.5 |
| 57.5° | 557.2 | 550.1 | 504.0 | 504.0 | 560.8 | 793.2 | 4376.0 | 12787.2 | 17493.3 | 17883.7 | 13789.8 |
| 60° | 500.4 | 495.1 | 464.9 | 456.1 | 512.8 | 835.8 | 3087.7 | 12897.3 | 19356.5 | 22971.2 | 17748.8 |
| 62.5° | 427.7 | 434.8 | 418.8 | 406.4 | 466.7 | 867.7 | 1829.5 | 12011.8 | 18905.8 | 24589.6 | 22490.3 |
| 65° | 337.2 | 365.6 | 362.0 | 353.1 | 512.8 | 731.1 | 1080.7 | 10311.8 | 17523.4 | 23283.6 | 21523.2 |
| 67.5° | 287.5 | 307.0 | 301.7 | 301.7 | 537.7 | 555.4 | 679.6 | 8056.3 | 15621.2 | 21734.4 | 19225.2 |
| 70° | 244.9 | 264.4 | 244.9 | 244.9 | 406.4 | 337.2 | 470.2 | 5625.2 | 13568.0 | 20020.2 | 17716.9 |
| 72.5° | 202.3 | 221.8 | 200.5 | 186.3 | 324.7 | 252.0 | 344.3 | 3515.3 | 11619.6 | 18235.0 | 16684.1 |
| 75° | 154.4 | 177.5 | 161.5 | 143.7 | 214.7 | 188.1 | 260.9 | 2042.5 | 9626.8 | 15601.6 | 15213.0 |
| 77.5° | 97.6 | 127.8 | 120.7 | 101.1 | 157.9 | 136.6 | 188.1 | 1215.6 | 7428.2 | 12191.0 | 13085.4 |
| 80° | 60.3 | 65.7 | 67.4 | 63.9 | 90.5 | 92.3 | 127.8 | 692.1 | 5084.0 | 8496.4 | 10223.0 |
| 82.5° | 39.0 | 39.0 | 30.2 | 33.7 | 44.4 | 53.2 | 72.8 | 260.9 | 2988.3 | 5172.7 | 7115.8 |
| 85° | 28.4 | 24.8 | 16.0 | 16.0 | 21.3 | 26.6 | 28.4 | 79.9 | 1212.0 | 2042.5 | 2782.5 |
| 87.5° | 14.2 | 12.4 | 5.3 | 7.1 | 10.6 | 8.9 | 7.1 | 3.5 | 305.2 | 653.0 | 457.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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