

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: P940789

Luminaire Tested: **GALN-SB4A-735-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940789
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-735-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17769 lumens
Efficiency: N/A
Efficacy: 155.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

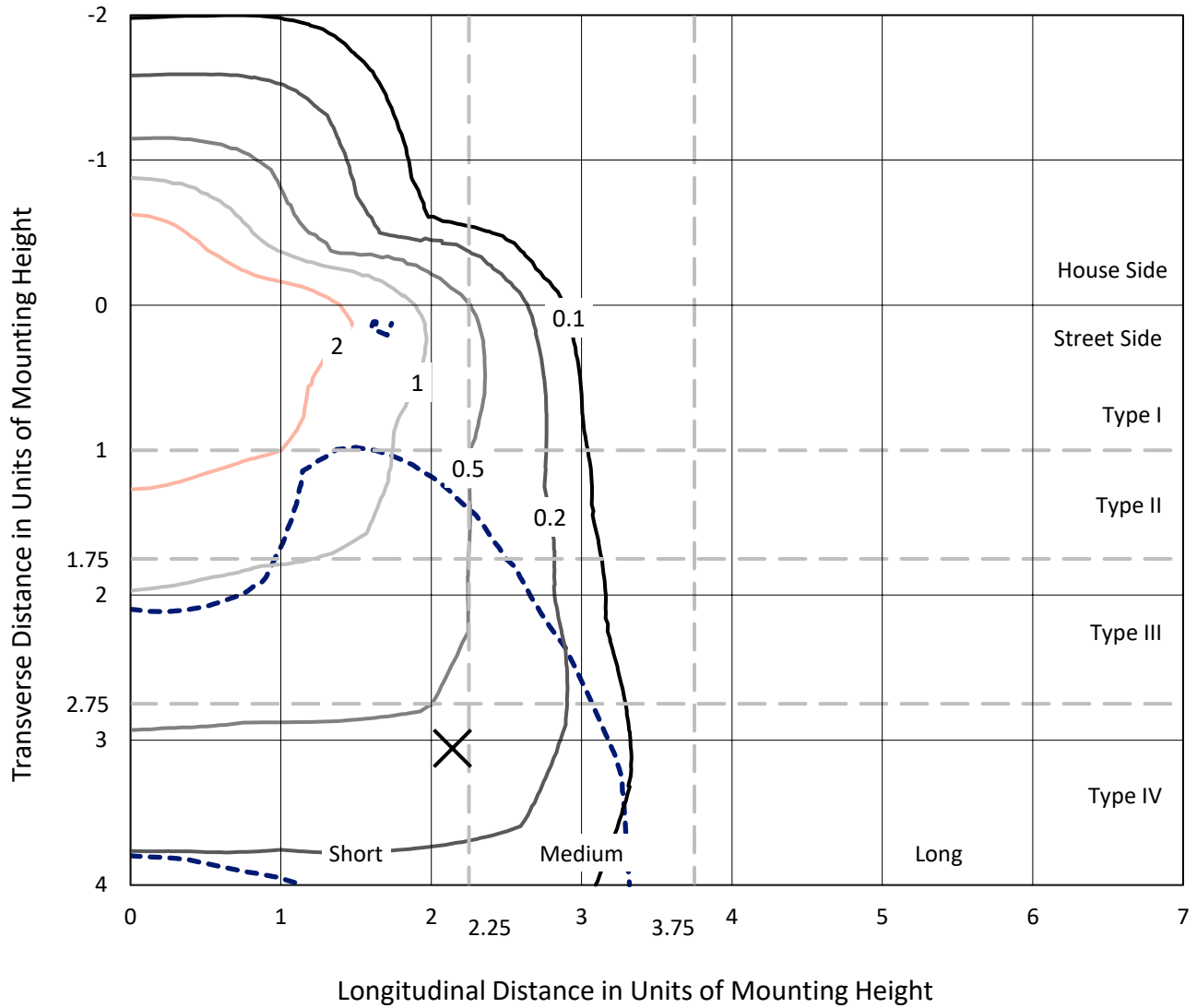
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

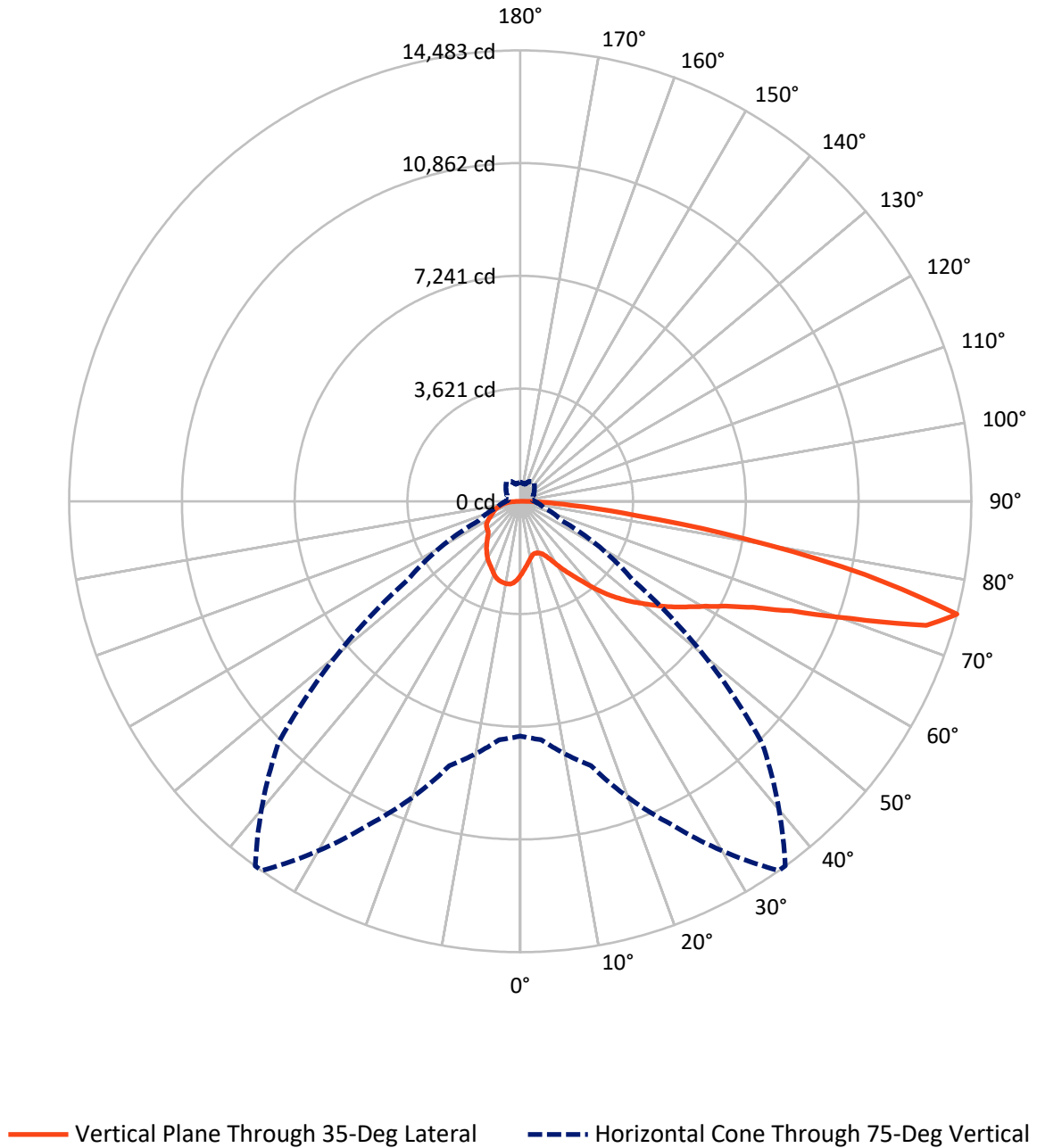
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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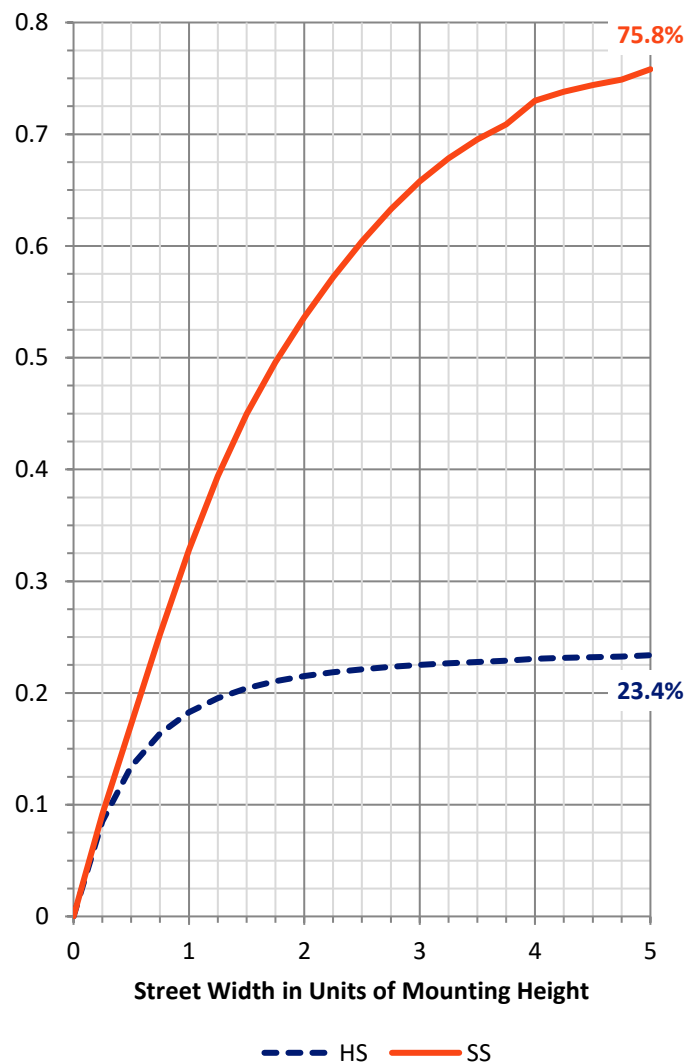
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4228.6 | 0.0 | 4228.6 |
| | % Fixture | 23.8 | 0.0 | 23.8 |
| Street Side | Lumens | 13540.4 | 0.0 | 13540.4 |
| | % Fixture | 76.2 | 0.0 | 76.2 |
| Total | Lumens | 17769.0 | 0.0 | 17769.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 224.2 | 1.3 |
| 10°-20° | 646.7 | 3.6 |
| 20°-30° | 1085.9 | 6.1 |
| 30°-40° | 1687.6 | 9.5 |
| 40°-50° | 2504.9 | 14.1 |
| 50°-60° | 3458.2 | 19.5 |
| 60°-70° | 4195.5 | 23.6 |
| 70°-80° | 3467.3 | 19.5 |
| 80°-90° | 498.7 | 2.8 |
| 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° | 17769.0 | 100.0 |
| 0°-180° | 17769.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P940789

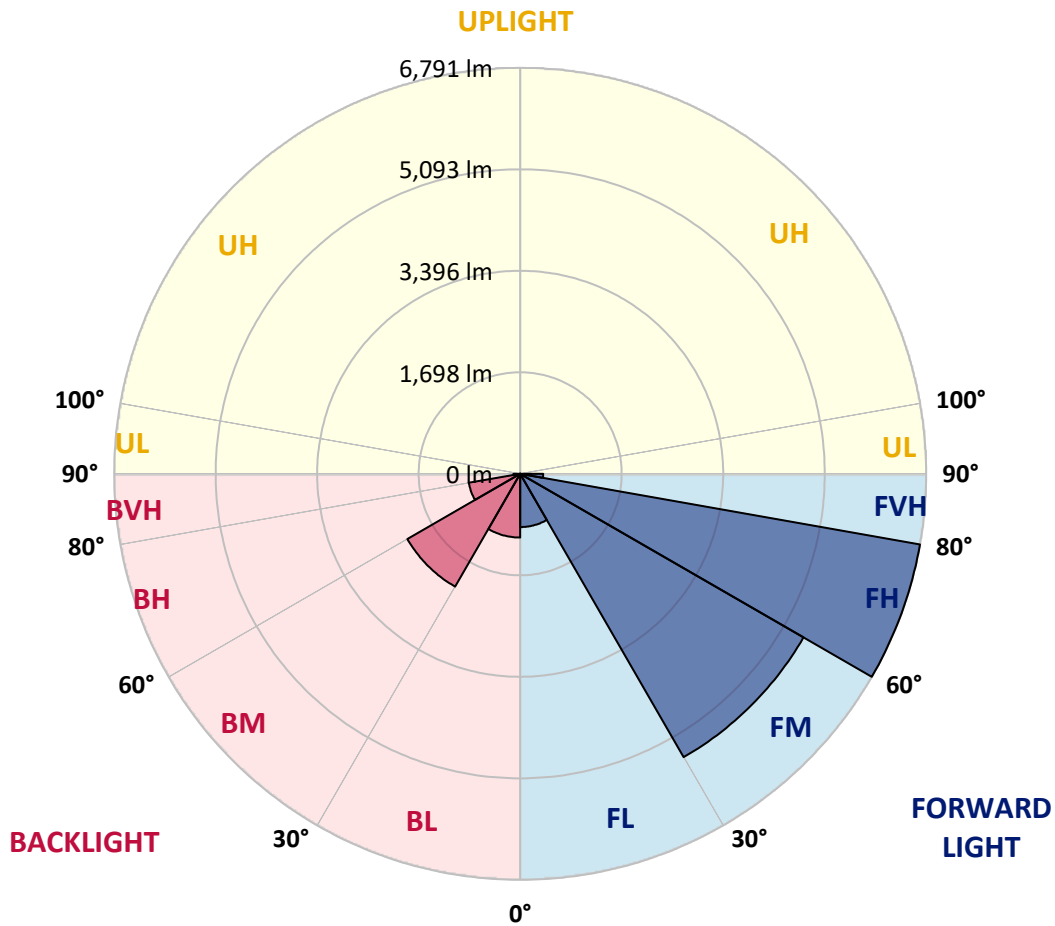
CATALOG NUMBER: GALN-SB4A-735-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 891.1 | 5.0 | | | |
| FM (30°-60°) | 5471.9 | 30.8 | | | |
| FH (60°-80°) | 6791.0 | 38.2 | | | G3/7500 |
| FVH (80°-90°) | 386.4 | 2.2 | | | G3/500 |
| BL (0°-30°) | 1065.7 | 6.0 | B3/2500 | | |
| BM (30°-60°) | 2178.8 | 12.3 | B2/2500 | | |
| BH (60°-80°) | 871.8 | 4.9 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 112.3 | 0.6 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type IV Short



REPORT NUMBER: P940789

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 36° | 45° | 55° | 65° | 75° |
|-------|--------|--------|--------|---------|---------|---------|---------|--------|--------|--------|
| 0° | 2367.8 | 2367.8 | 2367.8 | 2367.8 | 2367.8 | 2367.8 | 2367.8 | 2367.8 | 2367.8 | 2367.8 |
| 2.5° | 2183.4 | 2196.9 | 2202.6 | 2199.7 | 2214.1 | 2212.2 | 2232.4 | 2257.4 | 2292.0 | 2325.6 |
| 5° | 2015.3 | 2029.7 | 2042.2 | 2053.7 | 2081.6 | 2090.2 | 2121.9 | 2170.0 | 2233.4 | 2297.7 |
| 7.5° | 1858.7 | 1871.2 | 1890.4 | 1911.6 | 1958.6 | 1967.3 | 2020.1 | 2095.0 | 2183.4 | 2277.5 |
| 10° | 1731.0 | 1743.5 | 1763.6 | 1787.6 | 1846.2 | 1856.8 | 1924.0 | 2024.0 | 2139.2 | 2258.3 |
| 12.5° | 1676.2 | 1680.1 | 1691.6 | 1715.6 | 1766.5 | 1773.2 | 1847.2 | 1961.5 | 2096.0 | 2243.9 |
| 15° | 1673.3 | 1681.0 | 1682.0 | 1694.5 | 1736.7 | 1739.6 | 1807.8 | 1921.2 | 2069.1 | 2241.0 |
| 17.5° | 1702.2 | 1707.9 | 1699.3 | 1707.0 | 1742.5 | 1747.3 | 1801.1 | 1902.0 | 2060.5 | 2253.5 |
| 20° | 1779.0 | 1783.8 | 1757.9 | 1747.3 | 1773.2 | 1777.1 | 1829.9 | 1914.4 | 2069.1 | 2279.5 |
| 22.5° | 1942.3 | 1945.2 | 1881.8 | 1838.6 | 1840.5 | 1842.4 | 1888.5 | 1965.4 | 2102.7 | 2326.5 |
| 25° | 2196.9 | 2194.9 | 2094.1 | 2010.5 | 1962.5 | 1951.9 | 1982.6 | 2048.0 | 2159.4 | 2389.0 |
| 27.5° | 2494.6 | 2480.2 | 2379.4 | 2254.5 | 2149.8 | 2134.4 | 2127.7 | 2155.6 | 2240.1 | 2471.6 |
| 30° | 2830.8 | 2817.4 | 2708.8 | 2545.5 | 2400.5 | 2375.5 | 2312.1 | 2297.7 | 2360.2 | 2584.0 |
| 32.5° | 3199.7 | 3191.1 | 3061.4 | 2863.5 | 2669.5 | 2640.6 | 2534.0 | 2495.6 | 2544.6 | 2754.0 |
| 35° | 3509.0 | 3501.3 | 3393.7 | 3190.1 | 2952.8 | 2917.3 | 2808.7 | 2765.5 | 2790.5 | 2972.0 |
| 37.5° | 3788.5 | 3784.7 | 3692.5 | 3532.1 | 3287.1 | 3243.9 | 3121.9 | 3107.5 | 3102.7 | 3259.3 |
| 40° | 4047.9 | 4038.3 | 3942.2 | 3857.7 | 3676.2 | 3636.8 | 3529.2 | 3516.7 | 3480.2 | 3612.8 |
| 42.5° | 4335.1 | 4310.1 | 4170.9 | 4131.5 | 4082.5 | 4049.8 | 3985.5 | 3987.4 | 3906.7 | 4011.4 |
| 45° | 4569.5 | 4555.1 | 4412.0 | 4388.9 | 4441.7 | 4428.3 | 4484.0 | 4498.4 | 4341.8 | 4429.3 |
| 47.5° | 4821.2 | 4807.7 | 4686.7 | 4670.4 | 4813.5 | 4817.3 | 5014.2 | 5019.1 | 4766.4 | 4863.4 |
| 50° | 5131.4 | 5112.2 | 4992.2 | 5012.3 | 5172.7 | 5187.2 | 5547.4 | 5514.7 | 5157.4 | 5304.3 |
| 52.5° | 5336.0 | 5347.6 | 5321.6 | 5354.3 | 5573.3 | 5586.8 | 6071.9 | 5988.3 | 5544.5 | 5739.5 |
| 55° | 5486.9 | 5509.9 | 5590.6 | 5665.5 | 5996.0 | 6009.4 | 6566.6 | 6438.8 | 5865.3 | 6142.9 |
| 57.5° | 5680.9 | 5648.2 | 5799.0 | 5945.1 | 6397.5 | 6433.0 | 7047.8 | 6873.0 | 6149.7 | 6490.7 |
| 60° | 5959.5 | 5936.4 | 6053.6 | 6269.7 | 6847.0 | 6903.7 | 7556.9 | 7263.9 | 6358.1 | 6766.4 |
| 62.5° | 6524.3 | 6466.7 | 6484.9 | 6676.1 | 7413.8 | 7488.7 | 8131.3 | 7604.9 | 6461.8 | 6873.9 |
| 65° | 7368.6 | 7269.7 | 7177.5 | 7310.0 | 8212.0 | 8286.0 | 8779.7 | 7872.9 | 6423.4 | 6665.5 |
| 67.5° | 8432.0 | 8334.0 | 8220.7 | 8345.6 | 9387.8 | 9446.4 | 9579.9 | 8023.8 | 6120.8 | 5862.4 |
| 70° | 9309.0 | 9272.5 | 9408.0 | 9921.9 | 11265.7 | 11267.6 | 10605.8 | 7898.9 | 5291.9 | 4156.4 |
| 72.5° | 9192.8 | 9170.7 | 9884.4 | 11473.2 | 13632.6 | 13581.7 | 11577.0 | 6953.7 | 3564.7 | 1875.1 |
| 75° | 7541.5 | 7684.7 | 8790.3 | 11445.4 | 14482.7 | 14476.0 | 10982.4 | 4420.6 | 1474.5 | 777.1 |
| 77.5° | 4044.1 | 4270.8 | 5706.8 | 8450.3 | 11306.1 | 11476.1 | 7721.2 | 1546.5 | 633.0 | 497.6 |
| 80° | 1318.9 | 1516.8 | 2274.7 | 4302.5 | 7346.5 | 7314.8 | 3309.2 | 607.1 | 433.2 | 352.5 |
| 82.5° | 560.0 | 583.1 | 1016.3 | 2031.6 | 3770.3 | 3711.7 | 1053.8 | 348.7 | 304.5 | 241.1 |
| 85° | 219.0 | 244.9 | 448.6 | 939.5 | 1633.0 | 1597.5 | 380.4 | 172.9 | 195.0 | 157.5 |
| 87.5° | 72.0 | 87.4 | 160.4 | 321.8 | 508.1 | 489.9 | 93.2 | 59.6 | 84.5 | 72.0 |
| 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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 CATALOG NUMBER: GALN-SB4A-735-U-T4FT

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2367.8 | 0° | 2367.8 | 2367.8 | 2367.8 | 2367.8 | 2367.8 | 2367.8 | 2367.8 | 2367.8 | 2367.8 | 2367.8 |
| 2374.6 | 2.5° | 2388.0 | 2403.4 | 2421.6 | 2448.5 | 2471.6 | 2490.8 | 2511.0 | 2523.5 | 2528.3 | 2542.7 |
| 2378.4 | 5° | 2405.3 | 2438.9 | 2484.1 | 2528.3 | 2571.5 | 2597.4 | 2620.5 | 2632.0 | 2642.6 | 2650.3 |
| 2389.0 | 7.5° | 2434.1 | 2477.3 | 2548.4 | 2606.1 | 2642.6 | 2663.7 | 2679.1 | 2675.2 | 2679.1 | 2681.0 |
| 2400.5 | 10° | 2459.1 | 2519.6 | 2604.1 | 2658.9 | 2686.8 | 2687.7 | 2683.9 | 2670.4 | 2663.7 | 2664.7 |
| 2417.8 | 12.5° | 2488.9 | 2556.1 | 2647.4 | 2693.5 | 2701.2 | 2680.0 | 2663.7 | 2640.6 | 2632.0 | 2628.2 |
| 2443.7 | 15° | 2529.2 | 2606.1 | 2694.4 | 2711.7 | 2692.5 | 2665.6 | 2637.8 | 2600.3 | 2581.1 | 2565.7 |
| 2487.9 | 17.5° | 2578.2 | 2662.7 | 2730.9 | 2718.5 | 2677.1 | 2633.0 | 2587.8 | 2531.1 | 2491.8 | 2475.4 |
| 2548.4 | 20° | 2646.4 | 2722.3 | 2758.8 | 2704.0 | 2641.6 | 2574.4 | 2497.5 | 2428.4 | 2391.9 | 2375.5 |
| 2625.3 | 22.5° | 2729.0 | 2802.0 | 2785.7 | 2679.1 | 2590.7 | 2483.1 | 2387.1 | 2336.1 | 2317.9 | 2306.4 |
| 2724.2 | 25° | 2828.0 | 2890.4 | 2804.9 | 2642.6 | 2507.1 | 2362.1 | 2288.1 | 2271.8 | 2263.1 | 2254.5 |
| 2845.2 | 27.5° | 2956.7 | 2990.3 | 2819.3 | 2588.8 | 2376.5 | 2233.4 | 2206.5 | 2209.3 | 2206.5 | 2192.1 |
| 3013.4 | 30° | 3126.7 | 3120.0 | 2832.8 | 2501.4 | 2226.6 | 2117.1 | 2119.0 | 2131.5 | 2133.5 | 2123.9 |
| 3247.7 | 32.5° | 3350.5 | 3282.3 | 2839.5 | 2388.0 | 2083.5 | 2015.3 | 2017.2 | 2030.7 | 2040.3 | 2024.0 |
| 3554.2 | 35° | 3621.4 | 3471.6 | 2828.9 | 2245.8 | 1973.0 | 1918.3 | 1903.9 | 1907.7 | 1910.6 | 1895.2 |
| 3925.9 | 37.5° | 3937.4 | 3683.8 | 2781.9 | 2088.3 | 1881.8 | 1823.2 | 1792.4 | 1766.5 | 1751.1 | 1736.7 |
| 4346.6 | 40° | 4284.2 | 3915.3 | 2695.4 | 1934.6 | 1780.0 | 1722.3 | 1676.2 | 1627.2 | 1575.4 | 1556.1 |
| 4792.4 | 42.5° | 4647.3 | 4153.6 | 2590.7 | 1787.6 | 1662.8 | 1615.7 | 1566.7 | 1495.6 | 1417.8 | 1378.4 |
| 5255.4 | 45° | 5023.9 | 4397.6 | 2487.9 | 1642.6 | 1542.7 | 1522.5 | 1465.9 | 1380.4 | 1295.8 | 1245.9 |
| 5719.3 | 47.5° | 5392.7 | 4628.1 | 2337.1 | 1496.6 | 1430.3 | 1452.4 | 1408.2 | 1329.4 | 1235.3 | 1156.5 |
| 6179.4 | 50° | 5745.3 | 4844.2 | 2090.2 | 1348.7 | 1339.1 | 1431.3 | 1389.0 | 1275.7 | 1168.1 | 1067.2 |
| 6630.9 | 52.5° | 6094.9 | 5019.1 | 1774.2 | 1214.2 | 1290.1 | 1425.5 | 1364.0 | 1239.2 | 1107.6 | 1001.9 |
| 7055.5 | 55° | 6391.7 | 5109.3 | 1469.7 | 1098.9 | 1219.0 | 1376.5 | 1334.3 | 1195.9 | 1022.1 | 909.7 |
| 7346.5 | 57.5° | 6560.8 | 5036.3 | 1216.1 | 985.6 | 1121.0 | 1295.8 | 1283.3 | 1103.7 | 920.2 | 833.8 |
| 7403.2 | 60° | 6487.8 | 4740.5 | 1008.6 | 886.6 | 1027.8 | 1208.4 | 1195.0 | 1012.5 | 842.4 | 760.8 |
| 7099.7 | 62.5° | 6085.3 | 4176.6 | 844.4 | 800.2 | 943.3 | 1119.1 | 1106.6 | 942.3 | 782.9 | 704.1 |
| 6293.7 | 65° | 5274.6 | 3397.6 | 716.6 | 728.1 | 857.8 | 1011.5 | 1029.7 | 883.7 | 735.8 | 659.0 |
| 4869.2 | 67.5° | 4022.9 | 2461.0 | 616.7 | 665.7 | 774.2 | 905.8 | 958.7 | 841.5 | 696.4 | 623.4 |
| 2817.4 | 70° | 2292.9 | 1397.6 | 532.2 | 605.2 | 700.3 | 807.9 | 903.9 | 807.9 | 654.2 | 593.6 |
| 1055.7 | 72.5° | 869.3 | 641.7 | 460.1 | 544.7 | 629.2 | 725.2 | 843.4 | 755.0 | 605.2 | 560.0 |
| 545.6 | 75° | 464.0 | 391.0 | 387.1 | 473.6 | 547.5 | 644.6 | 767.5 | 703.1 | 568.7 | 591.7 |
| 377.5 | 77.5° | 316.0 | 276.6 | 323.7 | 405.4 | 458.2 | 555.2 | 686.8 | 624.4 | 492.8 | 490.9 |
| 261.3 | 80° | 219.0 | 196.0 | 263.2 | 326.6 | 354.5 | 466.8 | 599.4 | 536.0 | 401.5 | 374.6 |
| 161.4 | 82.5° | 131.6 | 127.8 | 196.9 | 244.0 | 250.7 | 360.2 | 496.6 | 449.6 | 328.5 | 286.3 |
| 96.1 | 85° | 72.0 | 75.9 | 125.8 | 143.1 | 146.0 | 251.7 | 389.0 | 347.7 | 252.6 | 212.3 |
| 34.6 | 87.5° | 20.2 | 25.9 | 46.1 | 56.7 | 70.1 | 130.6 | 231.5 | 206.5 | 126.8 | 88.4 |
| 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> |
|-------------|
| 2367.8 |
| 2541.7 |
| 2652.2 |
| 2683.9 |
| 2666.6 |
| 2626.2 |
| 2570.5 |
| 2476.4 |
| 2373.6 |
| 2308.3 |
| 2254.5 |
| 2194.9 |
| 2128.7 |
| 2031.6 |
| 1905.8 |
| 1746.3 |
| 1564.8 |
| 1383.2 |
| 1242.0 |
| 1147.9 |
| 1058.6 |
| 990.4 |
| 900.1 |
| 822.3 |
| 749.3 |
| 691.6 |
| 646.5 |
| 611.9 |
| 586.0 |
| 552.3 |
| 610.9 |
| 452.4 |
| 358.3 |
| 288.2 |
| 214.2 |
| 88.4 |
| 0.0 |

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