

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: P939597

Luminaire Tested: **GALN-SB2B-735-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939597
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2B-735-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11269 lumens
Efficiency: N/A
Efficacy: 152.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

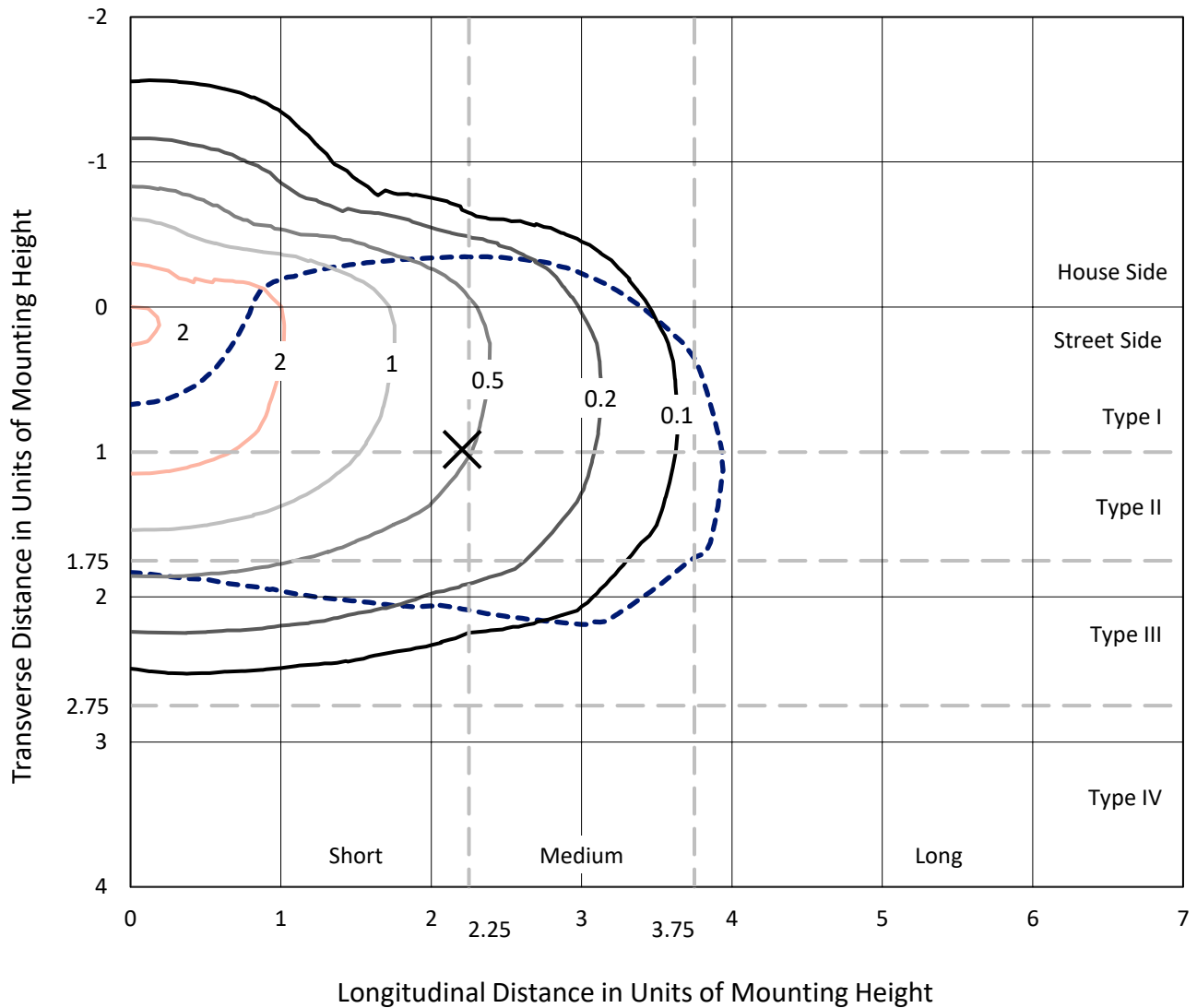
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

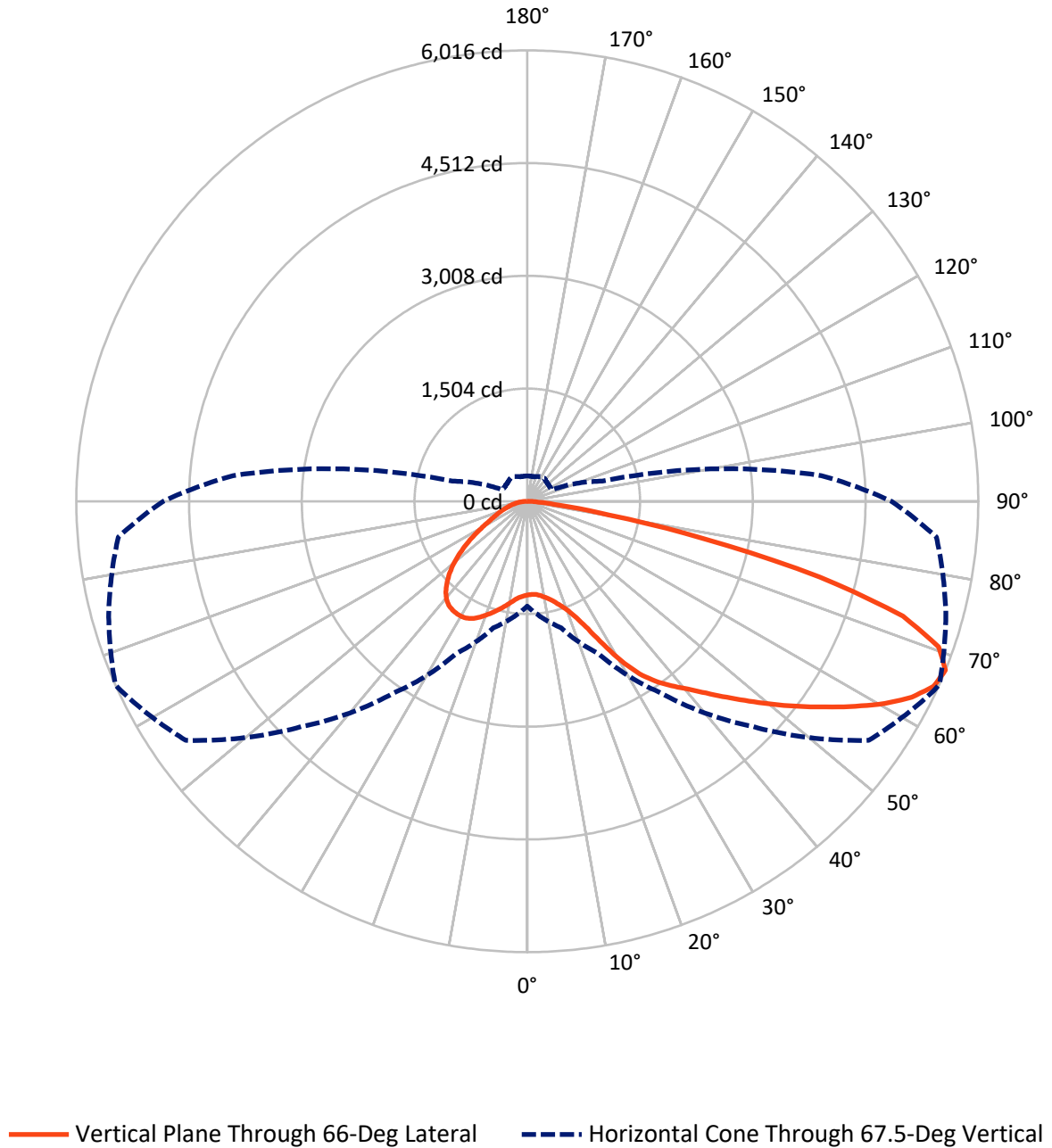
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2802.0 | 0.0 | 2802.0 |
| | % Fixture | 24.9 | 0.0 | 24.9 |
| Street Side | Lumens | 8467.0 | 0.0 | 8467.0 |
| | % Fixture | 75.1 | 0.0 | 75.1 |
| Total | Lumens | 11269.0 | 0.0 | 11269.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 123.9 | 1.1 |
| 10°-20° | 409.4 | 3.6 |
| 20°-30° | 789.1 | 7.0 |
| 30°-40° | 1383.6 | 12.3 |
| 40°-50° | 2057.0 | 18.3 |
| 50°-60° | 2607.5 | 23.1 |
| 60°-70° | 2551.3 | 22.6 |
| 70°-80° | 1217.0 | 10.8 |
| 80°-90° | 130.1 | 1.2 |
| 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° | 11269.0 | 100.0 |
| 0°-180° | 11269.0 | 100.0 |

Coefficient of Utilization



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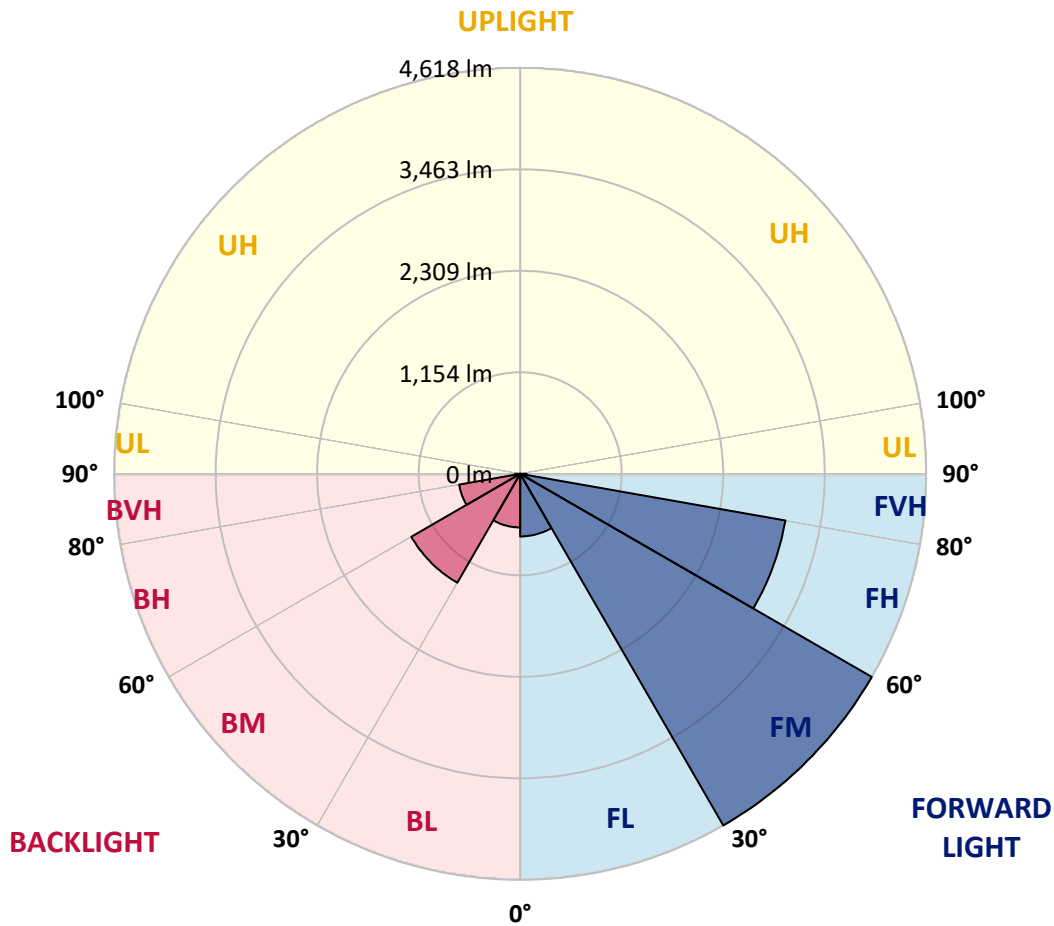
CATALOG NUMBER: GALN-SB2B-735-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 712.1 | 6.3 | | | |
| FM (30°-60°) | 4617.9 | 41.0 | | | |
| FH (60°-80°) | 3063.2 | 27.2 | | | G2/5000 |
| FVH (80°-90°) | 73.7 | 0.7 | | | G1/100 |
| BL (0°-30°) | 610.4 | 5.4 | B2/1000 | | |
| BM (30°-60°) | 1430.2 | 12.7 | B2/2500 | | |
| BH (60°-80°) | 705.1 | 6.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 56.3 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1249.9 | 1249.9 | 1249.9 | 1249.9 | 1249.9 | 1249.9 | 1249.9 | 1249.9 | 1249.9 | 1249.9 |
| 2.5° | 1236.9 | 1244.0 | 1242.2 | 1239.2 | 1238.6 | 1239.8 | 1241.6 | 1243.4 | 1242.8 | 1245.7 |
| 5° | 1233.3 | 1240.4 | 1239.8 | 1239.8 | 1242.2 | 1246.9 | 1249.9 | 1252.8 | 1249.9 | 1253.4 |
| 7.5° | 1235.7 | 1241.0 | 1243.4 | 1245.7 | 1251.7 | 1260.5 | 1267.6 | 1274.2 | 1270.6 | 1274.7 |
| 10° | 1265.9 | 1270.0 | 1272.4 | 1272.4 | 1276.5 | 1286.6 | 1293.7 | 1305.5 | 1302.6 | 1309.1 |
| 12.5° | 1320.9 | 1325.1 | 1325.1 | 1322.7 | 1325.7 | 1332.2 | 1334.5 | 1347.6 | 1342.2 | 1352.9 |
| 15° | 1388.4 | 1396.7 | 1390.2 | 1386.1 | 1387.2 | 1393.8 | 1393.2 | 1403.2 | 1397.9 | 1406.8 |
| 17.5° | 1463.0 | 1473.7 | 1463.0 | 1462.4 | 1460.1 | 1467.2 | 1467.8 | 1476.6 | 1467.2 | 1473.7 |
| 20° | 1551.2 | 1566.1 | 1557.2 | 1560.1 | 1554.8 | 1557.8 | 1560.7 | 1573.7 | 1558.9 | 1563.7 |
| 22.5° | 1675.6 | 1693.3 | 1683.9 | 1695.1 | 1691.6 | 1689.2 | 1688.6 | 1711.7 | 1688.6 | 1690.4 |
| 25° | 1856.8 | 1878.1 | 1861.5 | 1876.9 | 1876.9 | 1884.6 | 1893.5 | 1923.1 | 1884.6 | 1873.3 |
| 27.5° | 2124.4 | 2145.7 | 2113.1 | 2122.6 | 2119.6 | 2138.6 | 2129.1 | 2202.5 | 2161.1 | 2142.7 |
| 30° | 2446.5 | 2484.4 | 2422.8 | 2420.4 | 2417.5 | 2447.7 | 2461.3 | 2509.8 | 2467.8 | 2449.4 |
| 32.5° | 2794.6 | 2834.3 | 2760.9 | 2739.6 | 2728.3 | 2746.7 | 2735.4 | 2774.5 | 2745.5 | 2717.1 |
| 35° | 3162.9 | 3202.0 | 3132.1 | 3090.7 | 3045.7 | 3007.2 | 2966.9 | 2977.0 | 2949.7 | 2906.5 |
| 37.5° | 3511.0 | 3582.7 | 3508.7 | 3464.3 | 3381.4 | 3306.2 | 3193.7 | 3146.9 | 3121.4 | 3081.8 |
| 40° | 3865.7 | 3906.5 | 3850.3 | 3812.4 | 3722.4 | 3604.6 | 3424.6 | 3325.7 | 3291.4 | 3252.9 |
| 42.5° | 4126.8 | 4165.9 | 4135.7 | 4109.6 | 4039.2 | 3902.4 | 3669.7 | 3546.0 | 3496.2 | 3453.0 |
| 45° | 4334.0 | 4363.0 | 4344.1 | 4353.6 | 4323.4 | 4190.7 | 3923.7 | 3782.2 | 3730.7 | 3678.0 |
| 47.5° | 4417.5 | 4448.3 | 4478.5 | 4534.7 | 4586.3 | 4488.6 | 4196.7 | 4038.0 | 3983.5 | 3929.6 |
| 50° | 4408.0 | 4439.4 | 4527.0 | 4646.6 | 4806.5 | 4773.9 | 4484.4 | 4310.3 | 4260.0 | 4198.4 |
| 52.5° | 4332.2 | 4367.8 | 4480.3 | 4679.2 | 4933.8 | 4987.7 | 4777.5 | 4591.6 | 4544.2 | 4470.8 |
| 55° | 4133.3 | 4154.6 | 4323.4 | 4605.2 | 4964.0 | 5136.9 | 5064.7 | 4891.2 | 4843.8 | 4741.4 |
| 57.5° | 3764.4 | 3795.2 | 4040.9 | 4405.7 | 4888.2 | 5238.1 | 5316.9 | 5206.2 | 5160.6 | 5013.1 |
| 60° | 3283.1 | 3332.2 | 3613.5 | 4070.6 | 4695.2 | 5237.5 | 5546.0 | 5515.8 | 5477.9 | 5280.8 |
| 62.5° | 2738.4 | 2795.2 | 3065.8 | 3596.9 | 4357.7 | 5088.9 | 5689.3 | 5775.1 | 5755.6 | 5527.7 |
| 65° | 2103.1 | 2142.1 | 2411.5 | 2984.1 | 3832.5 | 4769.8 | 5705.9 | 5952.2 | 5955.7 | 5715.3 |
| 67.5° | 1400.3 | 1512.8 | 1746.6 | 2239.2 | 3129.1 | 4248.2 | 5560.2 | 5981.2 | 6015.5 | 5779.9 |
| 70° | 683.3 | 831.3 | 1060.4 | 1455.3 | 2239.2 | 3448.3 | 5179.5 | 5743.2 | 5819.6 | 5591.6 |
| 72.5° | 283.6 | 331.6 | 456.5 | 718.2 | 1285.4 | 2326.9 | 4414.5 | 5097.8 | 5239.3 | 4954.5 |
| 75° | 191.2 | 207.2 | 261.1 | 368.3 | 585.6 | 1147.5 | 3183.6 | 3801.2 | 4029.1 | 3741.9 |
| 77.5° | 147.4 | 157.5 | 190.1 | 257.6 | 348.1 | 434.0 | 1704.0 | 2290.8 | 2408.6 | 2229.8 |
| 80° | 116.0 | 123.7 | 142.1 | 187.7 | 246.9 | 232.1 | 580.8 | 1037.9 | 1106.0 | 927.8 |
| 82.5° | 100.7 | 103.6 | 101.8 | 127.3 | 164.0 | 135.6 | 190.6 | 383.1 | 422.7 | 306.7 |
| 85° | 72.8 | 81.1 | 84.7 | 78.7 | 87.0 | 68.7 | 78.2 | 135.6 | 149.2 | 133.2 |
| 87.5° | 29.6 | 43.8 | 53.9 | 50.9 | 32.0 | 19.5 | 24.3 | 39.7 | 45.6 | 49.7 |
| 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-SB2B-735-U-T3

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1249.9 | 0° | 1249.9 | 1249.9 | 1249.9 | 1249.9 | 1249.9 | 1249.9 | 1249.9 | 1249.9 | 1249.9 | 1249.9 |
| 1250.5 | 2.5° | 1251.1 | 1255.2 | 1258.2 | 1261.7 | 1264.1 | 1267.6 | 1274.7 | 1278.9 | 1279.5 | 1282.4 |
| 1259.9 | 5° | 1262.3 | 1268.2 | 1274.7 | 1284.2 | 1294.9 | 1303.8 | 1317.4 | 1326.9 | 1330.4 | 1333.4 |
| 1283.0 | 7.5° | 1286.6 | 1294.9 | 1306.7 | 1323.3 | 1338.7 | 1350.5 | 1367.1 | 1378.4 | 1389.6 | 1393.8 |
| 1319.7 | 10° | 1322.7 | 1334.5 | 1351.7 | 1374.2 | 1390.8 | 1406.2 | 1423.4 | 1432.8 | 1444.1 | 1448.8 |
| 1363.6 | 12.5° | 1367.7 | 1380.1 | 1402.6 | 1434.0 | 1449.4 | 1460.1 | 1466.0 | 1463.6 | 1466.0 | 1470.1 |
| 1416.3 | 15° | 1419.2 | 1432.8 | 1458.3 | 1492.0 | 1502.7 | 1493.2 | 1480.2 | 1468.4 | 1466.6 | 1467.8 |
| 1480.2 | 17.5° | 1480.2 | 1490.3 | 1519.9 | 1548.3 | 1540.6 | 1501.5 | 1473.1 | 1454.1 | 1444.7 | 1441.7 |
| 1561.9 | 20° | 1565.5 | 1565.5 | 1589.7 | 1607.5 | 1556.0 | 1489.7 | 1445.3 | 1414.5 | 1394.9 | 1386.7 |
| 1673.2 | 22.5° | 1669.1 | 1659.6 | 1675.0 | 1662.6 | 1553.0 | 1456.5 | 1394.9 | 1341.7 | 1312.0 | 1300.2 |
| 1828.9 | 25° | 1800.5 | 1789.3 | 1785.1 | 1708.2 | 1531.7 | 1403.8 | 1303.8 | 1239.2 | 1213.2 | 1206.7 |
| 2053.3 | 27.5° | 1998.9 | 1970.4 | 1916.6 | 1733.0 | 1492.6 | 1320.9 | 1197.2 | 1137.4 | 1122.6 | 1123.2 |
| 2341.7 | 30° | 2262.9 | 2206.1 | 2074.1 | 1737.2 | 1428.7 | 1203.7 | 1088.2 | 1045.6 | 1038.5 | 1041.5 |
| 2583.8 | 32.5° | 2507.5 | 2453.6 | 2235.1 | 1718.2 | 1330.4 | 1088.8 | 990.5 | 962.1 | 951.5 | 955.0 |
| 2768.6 | 35° | 2699.3 | 2684.5 | 2384.3 | 1691.6 | 1209.6 | 981.1 | 902.9 | 878.6 | 857.9 | 853.2 |
| 2942.6 | 37.5° | 2880.5 | 2874.5 | 2496.2 | 1654.3 | 1090.0 | 904.7 | 832.5 | 800.5 | 770.3 | 753.7 |
| 3135.1 | 40° | 3079.4 | 3073.5 | 2569.6 | 1596.8 | 984.0 | 838.4 | 769.1 | 727.1 | 689.8 | 659.6 |
| 3352.9 | 42.5° | 3303.2 | 3268.3 | 2604.6 | 1514.5 | 894.0 | 782.1 | 717.6 | 660.8 | 611.6 | 583.8 |
| 3599.3 | 45° | 3547.7 | 3469.0 | 2604.0 | 1409.7 | 818.3 | 730.6 | 662.5 | 582.0 | 536.4 | 510.4 |
| 3852.1 | 47.5° | 3807.1 | 3660.8 | 2572.0 | 1293.7 | 744.8 | 673.8 | 577.3 | 515.7 | 485.5 | 469.5 |
| 4126.8 | 50° | 4074.7 | 3840.2 | 2517.5 | 1160.5 | 669.6 | 609.3 | 524.0 | 482.0 | 458.9 | 444.1 |
| 4399.2 | 52.5° | 4326.3 | 4003.1 | 2451.8 | 1009.5 | 593.3 | 546.5 | 500.3 | 467.7 | 443.5 | 426.9 |
| 4663.2 | 55° | 4560.2 | 4143.4 | 2358.8 | 855.0 | 531.1 | 504.5 | 489.1 | 461.8 | 434.0 | 414.5 |
| 4931.4 | 57.5° | 4768.0 | 4234.6 | 2198.4 | 709.9 | 486.7 | 475.4 | 477.2 | 451.8 | 419.8 | 403.2 |
| 5195.5 | 60° | 4940.9 | 4301.5 | 1961.0 | 575.5 | 450.6 | 447.0 | 458.9 | 432.8 | 395.5 | 376.6 |
| 5418.7 | 62.5° | 5044.5 | 4300.3 | 1669.7 | 471.3 | 419.8 | 421.0 | 434.6 | 409.1 | 371.2 | 353.5 |
| 5535.4 | 65° | 5035.6 | 4194.9 | 1349.9 | 403.2 | 390.2 | 391.4 | 409.1 | 383.1 | 351.1 | 340.4 |
| 5476.7 | 67.5° | 4857.4 | 3937.9 | 1035.5 | 358.8 | 357.6 | 362.9 | 383.7 | 365.3 | 338.7 | 337.5 |
| 5127.4 | 70° | 4374.9 | 3404.5 | 746.0 | 323.3 | 323.9 | 331.6 | 358.8 | 354.1 | 332.2 | 334.5 |
| 4310.9 | 72.5° | 3508.1 | 2595.7 | 500.9 | 286.0 | 286.6 | 299.0 | 335.1 | 345.2 | 325.6 | 357.0 |
| 3058.7 | 75° | 2336.3 | 1618.7 | 322.1 | 246.3 | 246.9 | 262.9 | 314.4 | 328.0 | 307.9 | 355.8 |
| 1591.5 | 77.5° | 1122.6 | 727.7 | 233.3 | 207.2 | 207.2 | 222.0 | 271.8 | 293.7 | 262.3 | 276.5 |
| 511.6 | 80° | 387.8 | 273.5 | 183.5 | 167.0 | 163.4 | 173.5 | 229.1 | 254.6 | 226.2 | 208.4 |
| 167.0 | 82.5° | 152.8 | 142.1 | 147.4 | 129.7 | 117.8 | 124.3 | 178.2 | 210.2 | 166.4 | 150.4 |
| 94.1 | 85° | 87.6 | 92.4 | 104.2 | 85.9 | 68.1 | 76.4 | 130.8 | 151.0 | 125.5 | 110.7 |
| 30.8 | 87.5° | 23.7 | 32.6 | 48.0 | 44.4 | 30.8 | 32.6 | 62.2 | 83.5 | 72.2 | 55.7 |
| 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> |
|-------------|
| 1249.9 |
| 1281.9 |
| 1332.8 |
| 1394.3 |
| 1451.2 |
| 1471.3 |
| 1471.9 |
| 1445.9 |
| 1384.9 |
| 1298.4 |
| 1207.8 |
| 1125.0 |
| 1051.5 |
| 959.8 |
| 856.7 |
| 754.3 |
| 662.5 |
| 585.6 |
| 509.2 |
| 466.0 |
| 438.7 |
| 419.8 |
| 406.8 |
| 392.5 |
| 368.3 |
| 348.1 |
| 339.9 |
| 339.3 |
| 333.9 |
| 361.8 |
| 358.8 |
| 253.4 |
| 195.4 |
| 149.8 |
| 113.1 |
| 57.4 |
| 0.0 |

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