

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: P947601

Luminaire Tested: **GALN-SB2D-927-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947601
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2D-927-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12363 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

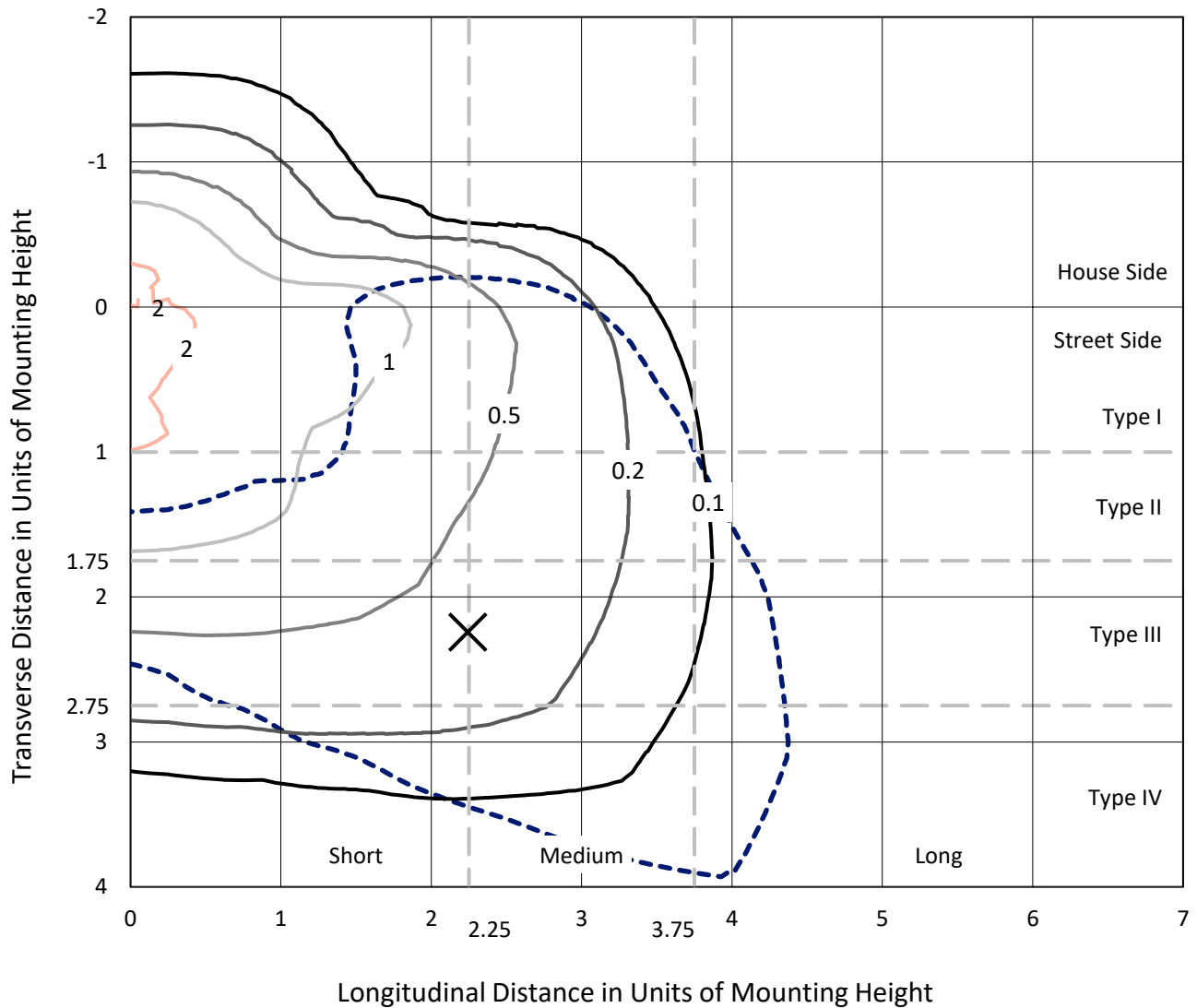
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

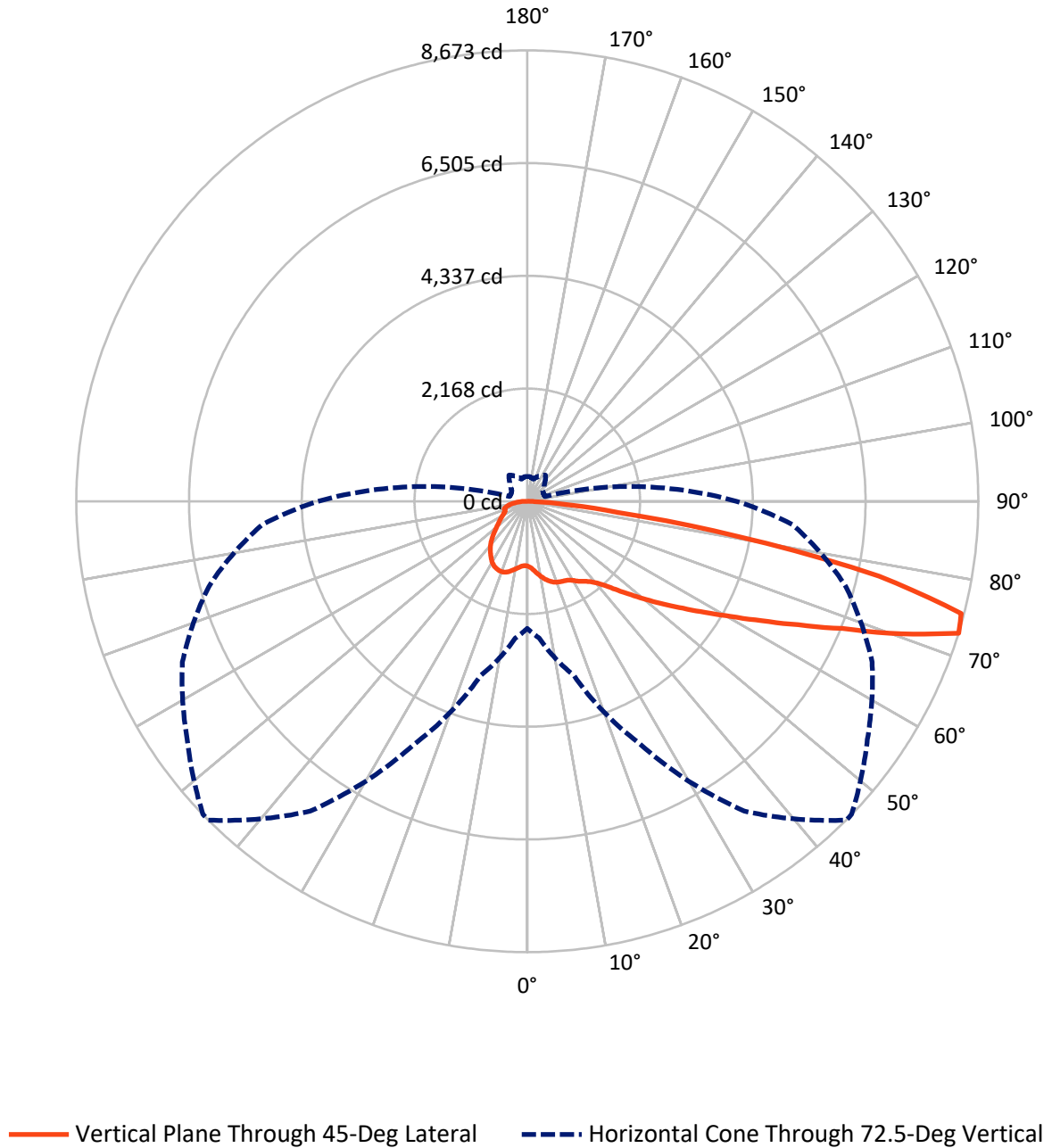
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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 | 2794.8 | 0.0 | 2794.8 |
| | % Fixture | 22.6 | 0.0 | 22.6 |
| Street Side | Lumens | 9568.2 | 0.0 | 9568.2 |
| | % Fixture | 77.4 | 0.0 | 77.4 |
| Total | Lumens | 12363.0 | 0.0 | 12363.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 126.9 | 1.0 |
| 10°-20° | 423.2 | 3.4 |
| 20°-30° | 736.2 | 6.0 |
| 30°-40° | 1055.4 | 8.5 |
| 40°-50° | 1486.1 | 12.0 |
| 50°-60° | 2276.3 | 18.4 |
| 60°-70° | 3297.5 | 26.7 |
| 70°-80° | 2633.3 | 21.3 |
| 80°-90° | 328.0 | 2.7 |
| 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° | 12363.0 | 100.0 |
| 0°-180° | 12363.0 | 100.0 |



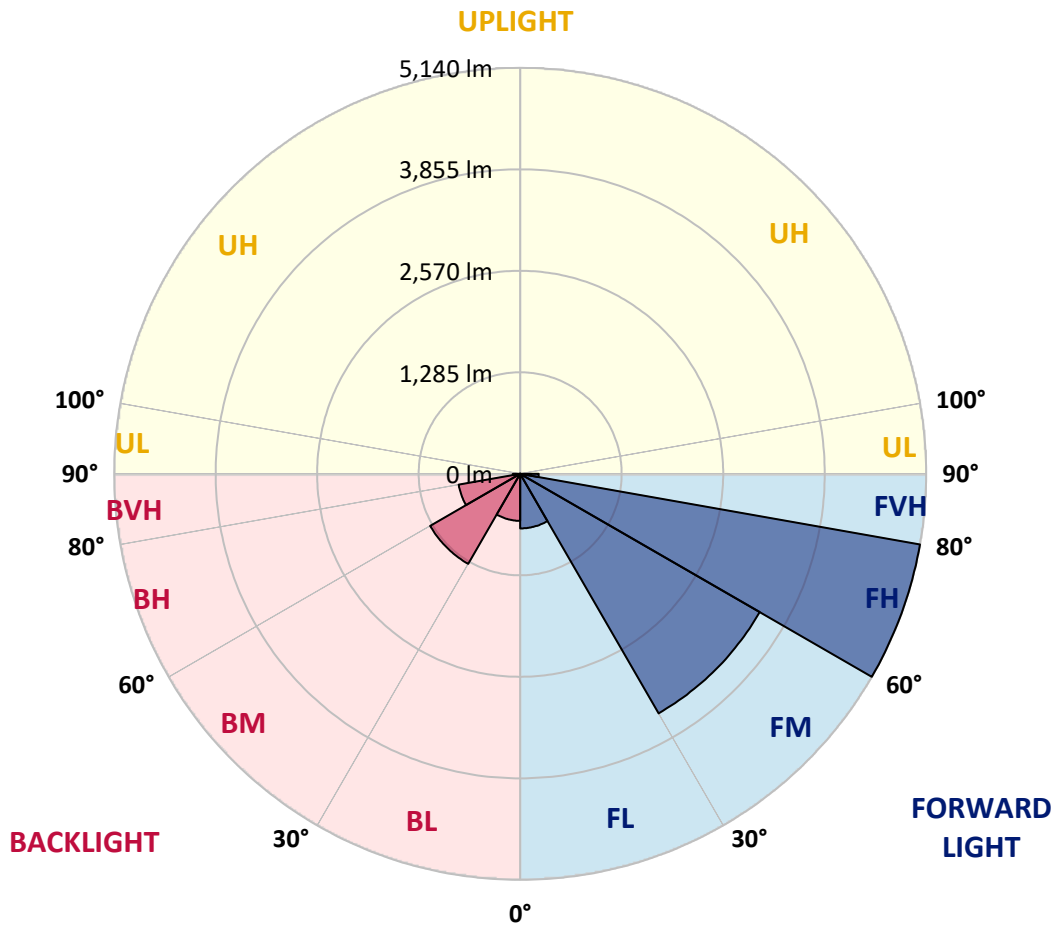
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 691.4 | 5.6 | | | |
| FM (30°-60°) | 3501.8 | 28.3 | | | |
| FH (60°-80°) | 5139.7 | 41.6 | | | G3/7500 |
| FVH (80°-90°) | 235.3 | 1.9 | | | G3/500 |
| BL (0°-30°) | 595.0 | 4.8 | B2/1000 | | |
| BM (30°-60°) | 1316.0 | 10.6 | B2/2500 | | |
| BH (60°-80°) | 791.1 | 6.4 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 92.7 | 0.7 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1247.2 | 1247.2 | 1247.2 | 1247.2 | 1247.2 | 1247.2 | 1247.2 | 1247.2 | 1247.2 | 1247.2 |
| 2.5° | 1296.0 | 1304.5 | 1296.7 | 1289.5 | 1286.3 | 1277.8 | 1277.1 | 1271.9 | 1268.7 | 1259.6 |
| 5° | 1386.6 | 1397.6 | 1384.6 | 1370.3 | 1357.3 | 1336.4 | 1333.8 | 1318.8 | 1301.9 | 1282.4 |
| 7.5° | 1488.8 | 1498.6 | 1483.6 | 1462.1 | 1439.3 | 1404.8 | 1404.1 | 1376.8 | 1350.1 | 1316.9 |
| 10° | 1578.0 | 1591.1 | 1570.9 | 1541.6 | 1512.9 | 1473.8 | 1469.3 | 1438.0 | 1404.1 | 1361.2 |
| 12.5° | 1656.8 | 1666.0 | 1646.4 | 1610.6 | 1577.4 | 1538.3 | 1532.4 | 1497.9 | 1460.2 | 1411.3 |
| 15° | 1719.4 | 1731.1 | 1705.0 | 1666.6 | 1631.4 | 1593.0 | 1587.8 | 1556.5 | 1518.8 | 1467.3 |
| 17.5° | 1760.4 | 1770.2 | 1743.5 | 1700.5 | 1666.6 | 1634.7 | 1630.8 | 1604.7 | 1571.5 | 1519.4 |
| 20° | 1776.0 | 1786.4 | 1758.4 | 1714.8 | 1683.5 | 1658.8 | 1656.8 | 1637.9 | 1615.2 | 1567.6 |
| 22.5° | 1791.6 | 1801.4 | 1764.9 | 1719.4 | 1692.0 | 1676.4 | 1675.7 | 1663.3 | 1654.2 | 1615.2 |
| 25° | 1854.8 | 1857.4 | 1808.6 | 1742.8 | 1703.7 | 1690.1 | 1689.4 | 1688.7 | 1692.7 | 1662.0 |
| 27.5° | 1909.5 | 1908.9 | 1867.2 | 1805.3 | 1744.8 | 1716.1 | 1715.5 | 1722.0 | 1734.3 | 1708.9 |
| 30° | 1989.6 | 1982.5 | 1933.0 | 1868.5 | 1813.1 | 1768.9 | 1764.9 | 1759.1 | 1768.9 | 1748.7 |
| 32.5° | 2159.6 | 2136.8 | 2056.7 | 1942.1 | 1869.8 | 1835.9 | 1830.7 | 1794.3 | 1798.2 | 1785.8 |
| 35° | 2403.2 | 2373.2 | 2266.4 | 2081.5 | 1940.1 | 1891.9 | 1889.3 | 1843.1 | 1835.3 | 1824.2 |
| 37.5° | 2693.0 | 2655.9 | 2531.5 | 2283.4 | 2061.3 | 1957.1 | 1953.2 | 1911.5 | 1879.6 | 1867.8 |
| 40° | 2984.1 | 2937.2 | 2834.3 | 2529.5 | 2239.7 | 2065.8 | 2053.5 | 1990.3 | 1953.8 | 1934.3 |
| 42.5° | 3266.8 | 3227.7 | 3139.8 | 2805.7 | 2459.9 | 2224.7 | 2197.4 | 2089.3 | 2061.9 | 2043.7 |
| 45° | 3516.9 | 3481.7 | 3417.2 | 3100.7 | 2717.8 | 2441.0 | 2414.3 | 2237.8 | 2229.3 | 2229.3 |
| 47.5° | 3720.1 | 3712.3 | 3643.9 | 3401.6 | 3021.9 | 2687.1 | 2640.9 | 2444.2 | 2467.0 | 2502.2 |
| 50° | 3945.4 | 3923.9 | 3851.0 | 3697.9 | 3379.5 | 2969.1 | 2931.4 | 2697.6 | 2782.9 | 2879.3 |
| 52.5° | 4152.5 | 4164.2 | 4082.8 | 4006.6 | 3783.2 | 3283.7 | 3217.3 | 2996.5 | 3180.8 | 3340.4 |
| 55° | 4365.5 | 4366.1 | 4343.3 | 4332.9 | 4206.6 | 3631.5 | 3558.6 | 3356.0 | 3649.1 | 3847.1 |
| 57.5° | 4565.4 | 4566.7 | 4600.6 | 4692.4 | 4697.6 | 4032.7 | 3950.0 | 3797.6 | 4169.4 | 4371.3 |
| 60° | 4743.9 | 4753.0 | 4845.5 | 5060.4 | 5129.4 | 4492.5 | 4414.3 | 4319.2 | 4707.4 | 4910.6 |
| 62.5° | 4803.8 | 4837.0 | 5042.8 | 5348.2 | 5556.0 | 5056.5 | 4979.6 | 4923.0 | 5272.7 | 5461.6 |
| 65° | 4702.2 | 4778.4 | 5176.3 | 5586.0 | 5995.0 | 5726.6 | 5650.4 | 5588.6 | 5860.1 | 6037.9 |
| 67.5° | 4452.7 | 4551.1 | 5168.5 | 5835.4 | 6527.7 | 6532.9 | 6461.9 | 6316.7 | 6489.9 | 6558.3 |
| 70° | 3795.6 | 3942.8 | 4713.3 | 5928.5 | 7139.2 | 7635.5 | 7567.1 | 7193.3 | 7118.4 | 6787.6 |
| 72.5° | 2445.5 | 2643.5 | 3470.6 | 5162.0 | 7275.4 | 8673.0 | 8669.1 | 7984.6 | 7317.0 | 6342.1 |
| 75° | 892.2 | 1013.4 | 1612.5 | 3240.1 | 6107.0 | 8620.2 | 8645.6 | 7849.1 | 6679.4 | 4898.9 |
| 77.5° | 325.0 | 355.6 | 526.2 | 1245.2 | 3755.9 | 6916.5 | 6969.3 | 6275.0 | 4754.3 | 2458.6 |
| 80° | 170.6 | 187.6 | 269.6 | 483.2 | 1609.3 | 4107.6 | 4190.3 | 3729.2 | 2234.5 | 740.5 |
| 82.5° | 94.4 | 102.2 | 151.1 | 262.5 | 724.9 | 1756.5 | 1806.0 | 1473.2 | 786.1 | 313.9 |
| 85° | 50.8 | 54.1 | 71.0 | 143.3 | 354.3 | 608.9 | 622.6 | 440.3 | 313.3 | 184.3 |
| 87.5° | 15.0 | 18.2 | 23.4 | 45.6 | 138.7 | 136.8 | 140.0 | 87.3 | 123.7 | 93.1 |
| 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-SB2D-927-U-T4W

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1247.2 | 0° | 1247.2 | 1247.2 | 1247.2 | 1247.2 | 1247.2 | 1247.2 | 1247.2 | 1247.2 | 1247.2 | 1247.2 |
| 1257.0 | 2.5° | 1253.0 | 1251.1 | 1243.9 | 1240.7 | 1236.8 | 1236.1 | 1239.4 | 1240.0 | 1240.7 | 1241.3 |
| 1271.3 | 5° | 1264.8 | 1258.3 | 1251.7 | 1247.8 | 1249.1 | 1249.8 | 1256.3 | 1260.9 | 1264.1 | 1266.7 |
| 1298.0 | 7.5° | 1287.6 | 1282.4 | 1271.3 | 1270.6 | 1272.6 | 1278.4 | 1286.9 | 1297.3 | 1303.2 | 1307.8 |
| 1332.5 | 10° | 1321.4 | 1311.7 | 1298.6 | 1300.6 | 1304.5 | 1313.0 | 1330.5 | 1339.0 | 1348.8 | 1357.3 |
| 1374.8 | 12.5° | 1355.9 | 1347.5 | 1332.5 | 1333.8 | 1340.3 | 1355.3 | 1372.2 | 1382.7 | 1389.2 | 1395.7 |
| 1420.4 | 15° | 1400.9 | 1385.9 | 1369.6 | 1369.6 | 1381.3 | 1397.6 | 1405.4 | 1413.9 | 1417.8 | 1425.0 |
| 1469.3 | 17.5° | 1447.1 | 1427.6 | 1406.1 | 1404.8 | 1419.1 | 1426.9 | 1431.5 | 1432.8 | 1434.1 | 1441.9 |
| 1516.8 | 20° | 1493.4 | 1471.9 | 1441.3 | 1438.7 | 1441.9 | 1440.6 | 1440.0 | 1438.7 | 1440.6 | 1450.4 |
| 1565.7 | 22.5° | 1539.0 | 1514.2 | 1471.9 | 1460.2 | 1451.0 | 1438.7 | 1438.0 | 1437.4 | 1438.7 | 1448.4 |
| 1618.4 | 25° | 1592.4 | 1562.4 | 1505.7 | 1470.6 | 1440.0 | 1423.0 | 1425.0 | 1425.6 | 1426.9 | 1434.8 |
| 1673.1 | 27.5° | 1650.3 | 1617.1 | 1537.0 | 1467.3 | 1412.0 | 1400.2 | 1397.0 | 1398.9 | 1403.5 | 1415.9 |
| 1727.8 | 30° | 1708.3 | 1669.2 | 1565.7 | 1454.3 | 1376.8 | 1360.5 | 1350.1 | 1354.6 | 1369.0 | 1381.3 |
| 1775.4 | 32.5° | 1761.0 | 1722.0 | 1588.5 | 1425.6 | 1331.9 | 1306.5 | 1292.8 | 1298.6 | 1313.0 | 1317.5 |
| 1828.1 | 35° | 1822.9 | 1778.6 | 1598.2 | 1380.0 | 1283.0 | 1243.9 | 1225.7 | 1217.2 | 1224.4 | 1219.8 |
| 1890.0 | 37.5° | 1891.9 | 1845.7 | 1596.9 | 1320.1 | 1225.7 | 1180.8 | 1155.4 | 1123.4 | 1108.5 | 1092.8 |
| 1981.2 | 40° | 1994.2 | 1927.8 | 1581.3 | 1247.8 | 1154.7 | 1113.7 | 1068.1 | 1014.0 | 980.2 | 949.6 |
| 2128.4 | 42.5° | 2133.6 | 2041.7 | 1552.6 | 1168.4 | 1074.6 | 1036.2 | 974.3 | 911.1 | 857.7 | 806.9 |
| 2351.7 | 45° | 2341.3 | 2190.9 | 1516.8 | 1083.7 | 988.0 | 950.2 | 883.1 | 812.1 | 751.6 | 686.4 |
| 2668.9 | 47.5° | 2640.9 | 2391.5 | 1482.9 | 987.3 | 896.8 | 862.3 | 801.7 | 735.9 | 664.3 | 601.1 |
| 3127.4 | 50° | 3052.5 | 2679.3 | 1451.7 | 893.5 | 806.9 | 780.9 | 732.7 | 665.6 | 593.3 | 542.5 |
| 3664.7 | 52.5° | 3576.1 | 3070.7 | 1438.7 | 803.0 | 722.9 | 713.1 | 674.7 | 612.2 | 543.8 | 500.8 |
| 4291.2 | 55° | 4177.3 | 3539.0 | 1438.7 | 716.4 | 649.3 | 652.6 | 625.9 | 567.9 | 508.6 | 470.2 |
| 4937.3 | 57.5° | 4790.8 | 4013.1 | 1412.6 | 636.3 | 586.8 | 600.5 | 583.5 | 532.7 | 479.3 | 439.6 |
| 5616.6 | 60° | 5356.1 | 4410.4 | 1307.1 | 563.4 | 531.4 | 552.9 | 541.9 | 498.2 | 433.1 | 399.9 |
| 6184.5 | 62.5° | 5790.5 | 4634.5 | 1103.9 | 505.4 | 485.8 | 510.6 | 504.7 | 452.6 | 424.6 | 411.0 |
| 6650.8 | 65° | 6008.0 | 4598.0 | 844.0 | 453.9 | 447.4 | 485.8 | 473.5 | 471.5 | 449.4 | 433.7 |
| 6802.5 | 67.5° | 5874.5 | 4284.1 | 612.2 | 416.2 | 425.3 | 463.1 | 510.6 | 518.4 | 477.4 | 446.8 |
| 6375.3 | 70° | 5289.0 | 3716.2 | 455.9 | 380.3 | 397.3 | 463.7 | 582.2 | 542.5 | 468.3 | 432.4 |
| 5113.1 | 72.5° | 4023.6 | 2771.2 | 353.6 | 342.6 | 360.8 | 467.0 | 614.1 | 531.4 | 442.2 | 478.0 |
| 3185.4 | 75° | 2300.9 | 1521.4 | 284.0 | 296.3 | 315.2 | 436.4 | 597.9 | 502.8 | 422.0 | 439.0 |
| 1262.2 | 77.5° | 877.3 | 584.8 | 234.5 | 250.7 | 253.3 | 381.0 | 571.8 | 500.8 | 401.8 | 392.1 |
| 378.4 | 80° | 304.1 | 228.6 | 194.1 | 199.3 | 196.0 | 338.7 | 548.4 | 435.7 | 328.9 | 294.4 |
| 156.3 | 82.5° | 124.4 | 114.0 | 153.7 | 147.2 | 139.4 | 263.1 | 442.9 | 356.2 | 269.0 | 237.7 |
| 75.5 | 85° | 54.1 | 72.3 | 101.6 | 89.2 | 80.8 | 182.4 | 354.9 | 301.5 | 227.3 | 196.0 |
| 24.7 | 87.5° | 11.1 | 27.4 | 43.0 | 40.4 | 41.7 | 121.8 | 252.0 | 214.3 | 160.9 | 120.5 |
| 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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|-------------|
| <u>180°</u> |
| 1247.2 |
| 1243.9 |
| 1268.0 |
| 1309.1 |
| 1355.3 |
| 1398.3 |
| 1427.6 |
| 1444.5 |
| 1454.3 |
| 1454.9 |
| 1445.2 |
| 1428.2 |
| 1395.0 |
| 1333.8 |
| 1234.2 |
| 1102.6 |
| 951.5 |
| 802.4 |
| 678.6 |
| 594.0 |
| 539.3 |
| 497.6 |
| 466.3 |
| 433.1 |
| 394.7 |
| 406.4 |
| 428.5 |
| 441.6 |
| 426.6 |
| 474.1 |
| 439.0 |
| 357.5 |
| 284.6 |
| 235.1 |
| 195.4 |
| 94.4 |
| 0.0 |

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