

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: P526260

Luminaire Tested: **GALN-SA1B-722-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526260
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-722-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2200K, 800mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3152 lumens
Efficiency: N/A
Efficacy: 71.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

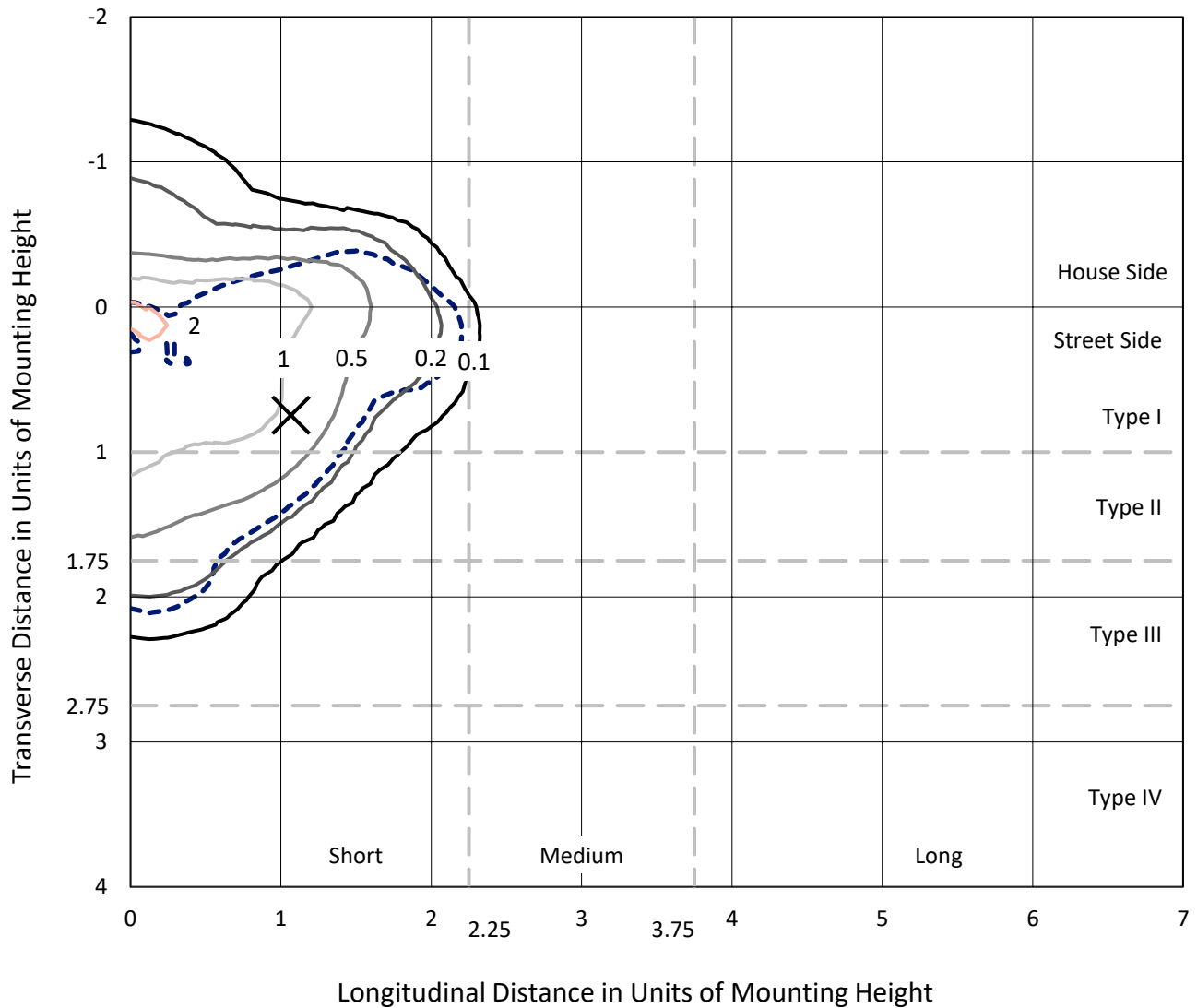
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

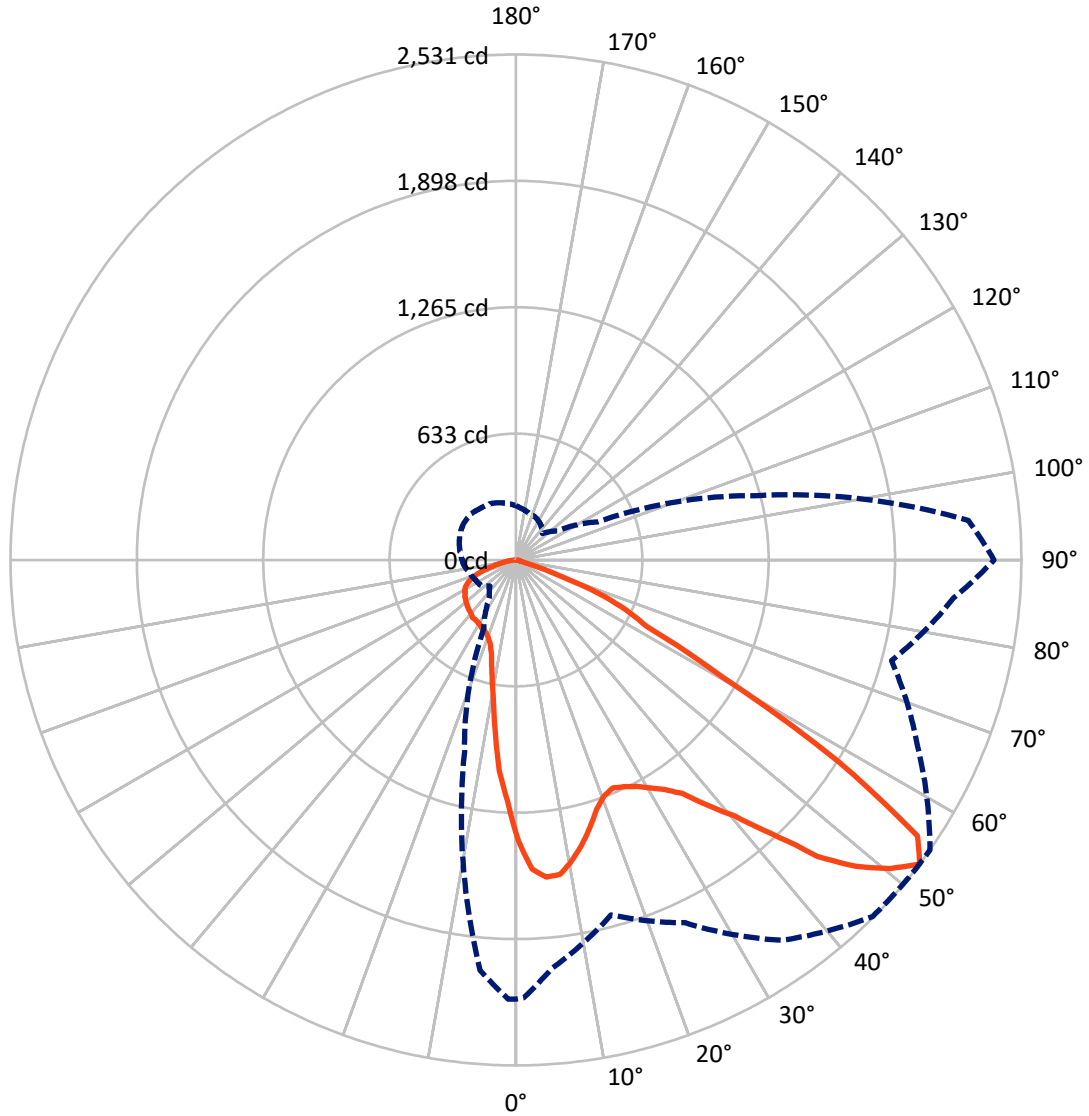
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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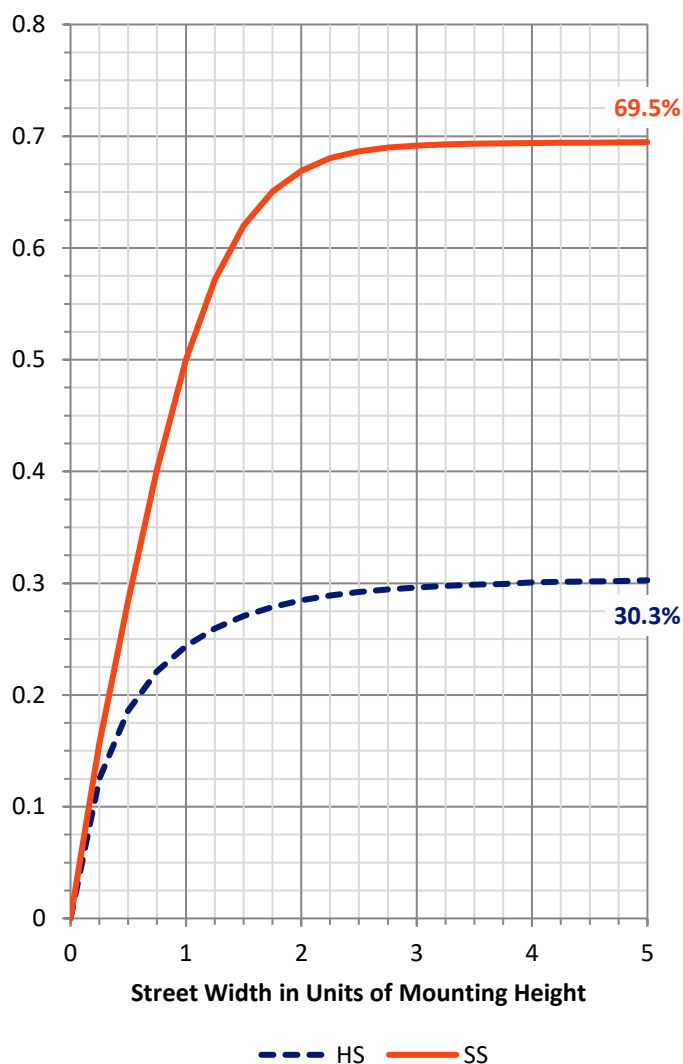
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 961.5 | 0.0 | 961.5 |
| | % Fixture | 30.5 | 0.0 | 30.5 |
| Street Side | Lumens | 2190.5 | 0.0 | 2190.5 |
| | % Fixture | 69.5 | 0.0 | 69.5 |
| Total | Lumens | 3152.0 | 0.0 | 3152.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 107.4 | 3.4 |
| 10°-20° | 231.6 | 7.3 |
| 20°-30° | 351.2 | 11.1 |
| 30°-40° | 507.4 | 16.1 |
| 40°-50° | 678.1 | 21.5 |
| 50°-60° | 756.9 | 24.0 |
| 60°-70° | 415.2 | 13.2 |
| 70°-80° | 89.8 | 2.8 |
| 80°-90° | 14.5 | 0.5 |
| 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° | 3152.0 | 100.0 |
| 0°-180° | 3152.0 | 100.0 |

Coefficient of Utilization

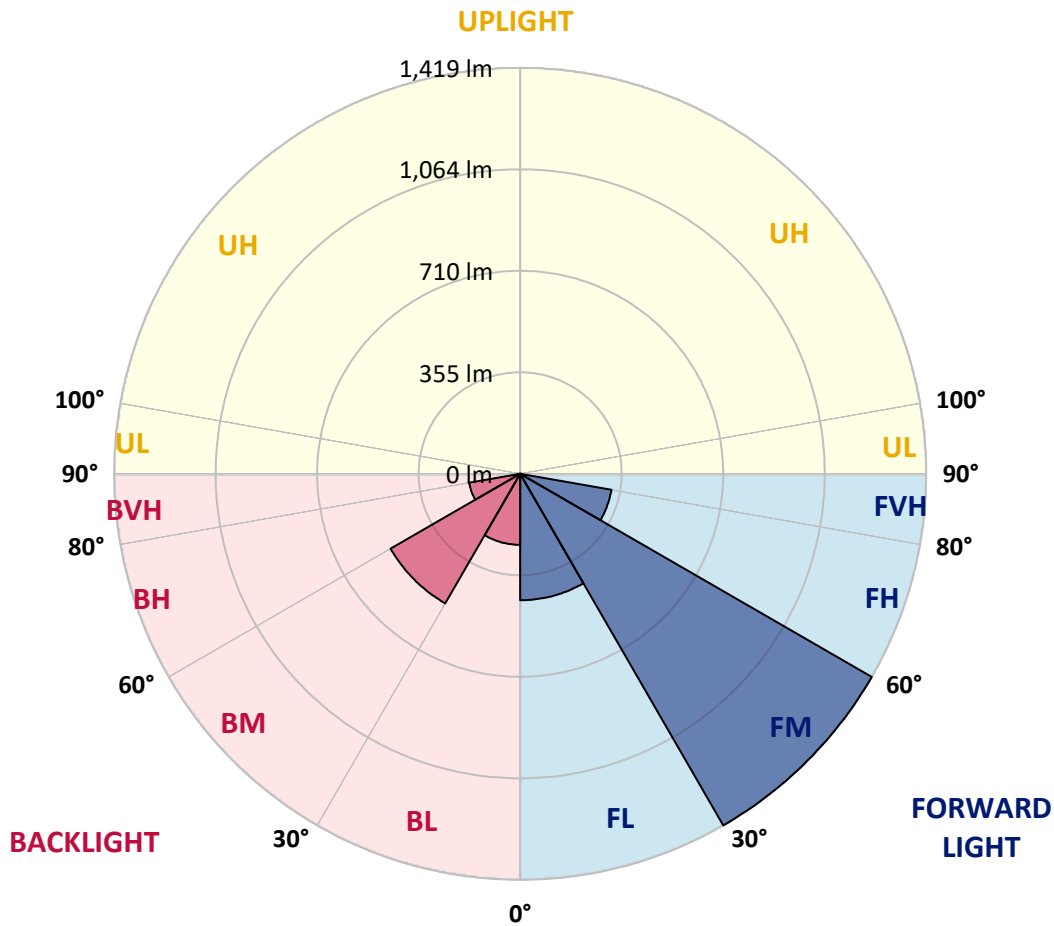


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 442.0 | 14.0 | | | |
| FM (30°-60°) | 1419.2 | 45.0 | | | |
| FH (60°-80°) | 323.9 | 10.3 | | | G0/660 |
| FVH (80°-90°) | 5.4 | 0.2 | | | G0/10 |
| BL (0°-30°) | 248.3 | 7.9 | B1/500 | | |
| BM (30°-60°) | 523.2 | 16.6 | B1/1000 | | |
| BH (60°-80°) | 181.0 | 5.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 9.1 | 0.3 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1406.0 | 1406.0 | 1406.0 | 1406.0 | 1406.0 | 1406.0 | 1406.0 | 1406.0 | 1406.0 | 1406.0 | 1406.0 |
| 2.5° | 1475.5 | 1467.2 | 1474.6 | 1509.6 | 1529.8 | 1543.6 | 1552.4 | 1551.0 | 1517.9 | 1485.7 | 1485.7 |
| 5° | 1432.3 | 1421.7 | 1436.9 | 1516.0 | 1595.7 | 1602.6 | 1614.1 | 1595.2 | 1546.4 | 1487.5 | 1413.9 |
| 7.5° | 1307.1 | 1314.9 | 1340.2 | 1444.2 | 1547.8 | 1599.8 | 1613.6 | 1589.7 | 1510.5 | 1400.5 | 1292.4 |
| 10° | 1198.9 | 1217.3 | 1275.8 | 1388.1 | 1483.4 | 1551.0 | 1566.2 | 1532.6 | 1470.0 | 1335.2 | 1238.5 |
| 12.5° | 1161.6 | 1150.1 | 1215.0 | 1327.3 | 1418.5 | 1454.8 | 1461.7 | 1464.0 | 1421.7 | 1302.0 | 1184.2 |
| 15° | 1157.0 | 1164.4 | 1215.0 | 1300.2 | 1356.3 | 1358.2 | 1369.7 | 1387.6 | 1393.1 | 1324.6 | 1209.5 |
| 17.5° | 1223.3 | 1214.6 | 1266.6 | 1334.2 | 1307.5 | 1280.9 | 1283.6 | 1309.4 | 1354.9 | 1343.9 | 1289.1 |
| 20° | 1321.4 | 1341.1 | 1382.1 | 1375.2 | 1303.4 | 1235.7 | 1236.2 | 1260.6 | 1350.3 | 1424.0 | 1400.1 |
| 22.5° | 1484.3 | 1503.6 | 1534.0 | 1450.7 | 1303.4 | 1222.4 | 1206.8 | 1239.9 | 1379.8 | 1519.3 | 1525.2 |
| 25° | 1632.9 | 1668.4 | 1676.7 | 1578.6 | 1368.8 | 1234.8 | 1224.7 | 1257.4 | 1409.3 | 1612.2 | 1668.8 |
| 27.5° | 1768.2 | 1781.1 | 1817.5 | 1661.0 | 1405.1 | 1243.1 | 1242.2 | 1284.1 | 1446.5 | 1658.7 | 1797.2 |
| 30° | 1875.0 | 1873.6 | 1894.4 | 1713.0 | 1463.1 | 1289.6 | 1245.0 | 1324.1 | 1495.3 | 1735.6 | 1916.0 |
| 32.5° | 1947.7 | 1963.4 | 2007.1 | 1785.3 | 1487.5 | 1333.8 | 1298.8 | 1371.1 | 1554.7 | 1771.9 | 1999.7 |
| 35° | 2075.7 | 2102.8 | 2047.6 | 1825.3 | 1564.8 | 1377.5 | 1336.5 | 1435.0 | 1584.1 | 1811.5 | 2102.4 |
| 37.5° | 2196.3 | 2175.6 | 2119.4 | 1846.9 | 1615.0 | 1458.5 | 1420.3 | 1558.8 | 1675.7 | 1897.6 | 2170.5 |
| 40° | 2273.6 | 2273.1 | 2173.3 | 1864.4 | 1650.4 | 1582.3 | 1580.0 | 1684.5 | 1788.0 | 1951.9 | 2246.9 |
| 42.5° | 2307.2 | 2339.4 | 2195.3 | 1862.6 | 1725.0 | 1732.3 | 1778.8 | 1872.3 | 1867.7 | 1962.9 | 2245.1 |
| 44° | 2353.2 | 2372.5 | 2233.5 | 1866.7 | 1774.7 | 1833.6 | 1943.1 | 2002.5 | 1937.2 | 1956.9 | 2242.8 |
| 45° | 2351.4 | 2352.8 | 2179.2 | 1872.3 | 1817.0 | 1918.3 | 2016.3 | 2116.6 | 1998.4 | 1944.1 | 2273.1 |
| 47.5° | 2297.5 | 2281.9 | 2133.2 | 1831.3 | 1949.1 | 2142.0 | 2232.6 | 2293.4 | 2073.8 | 1916.4 | 2235.4 |
| 50° | 2191.2 | 2173.3 | 2021.4 | 1813.8 | 1976.7 | 2281.0 | 2406.1 | 2428.2 | 2142.4 | 1889.3 | 2198.1 |
| 52.5° | 2198.6 | 2193.5 | 2053.1 | 1840.0 | 2004.3 | 2324.7 | 2525.3 | 2530.9 | 2220.2 | 1946.4 | 2198.6 |
| 55° | 2330.2 | 2312.7 | 2144.3 | 1872.7 | 1984.1 | 2273.6 | 2449.4 | 2439.7 | 2194.0 | 1911.8 | 2239.1 |
| 57.5° | 2132.3 | 2143.8 | 2018.2 | 1743.4 | 1736.5 | 1848.3 | 1925.6 | 1901.7 | 1830.8 | 1725.4 | 2083.1 |
| 60° | 1720.4 | 1753.1 | 1765.0 | 1458.0 | 1310.3 | 1252.8 | 1229.8 | 1187.4 | 1199.4 | 1417.5 | 1829.9 |
| 62.5° | 1475.5 | 1473.7 | 1548.7 | 1321.8 | 858.3 | 738.2 | 727.2 | 736.8 | 874.9 | 1395.5 | 1792.2 |
| 65° | 1169.9 | 1201.2 | 1224.2 | 1120.2 | 679.3 | 548.1 | 547.7 | 608.9 | 757.1 | 1166.3 | 1447.0 |
| 67.5° | 742.8 | 783.8 | 812.3 | 716.6 | 454.3 | 390.3 | 379.7 | 453.3 | 524.7 | 764.9 | 871.2 |
| 70° | 418.8 | 438.1 | 451.0 | 413.3 | 289.0 | 202.5 | 190.5 | 208.0 | 317.1 | 495.2 | 516.4 |
| 72.5° | 161.5 | 170.3 | 187.8 | 189.2 | 109.1 | 65.4 | 52.9 | 63.5 | 133.5 | 196.1 | 186.9 |
| 75° | 24.9 | 26.7 | 37.7 | 45.1 | 31.3 | 23.9 | 25.3 | 26.2 | 37.3 | 50.6 | 42.3 |
| 77.5° | 12.0 | 12.0 | 11.5 | 13.3 | 15.6 | 17.0 | 18.4 | 20.3 | 22.1 | 24.4 | 23.5 |
| 80° | 7.8 | 7.8 | 7.8 | 9.2 | 11.5 | 13.8 | 15.6 | 16.6 | 17.5 | 19.3 | 18.4 |
| 82.5° | 5.1 | 5.1 | 5.1 | 6.9 | 9.2 | 11.5 | 12.4 | 14.7 | 16.6 | 19.3 | 17.9 |
| 85° | 2.8 | 2.8 | 2.8 | 4.6 | 6.9 | 9.7 | 9.2 | 7.4 | 4.1 | 0.5 | 0.9 |
| 87.5° | 0.9 | 0.9 | 0.9 | 0.9 | 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 | 0.0 |



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CATALOG NUMBER: GALN-SA1B-722-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1406.0 | 1406.0 | 1406.0 | 1406.0 | 1406.0 | 1406.0 | 1406.0 | 1406.0 | 1406.0 | 1406.0 | 1406.0 |
| 2.5° | 1447.0 | 1425.8 | 1424.0 | 1380.7 | 1342.1 | 1323.2 | 1308.0 | 1265.7 | 1274.9 | 1250.5 | 1250.0 |
| 5° | 1377.0 | 1333.8 | 1263.8 | 1206.3 | 1148.8 | 1137.3 | 1087.1 | 1043.4 | 1044.7 | 1013.5 | 1019.0 |
| 7.5° | 1251.4 | 1221.5 | 1136.3 | 1046.1 | 969.7 | 915.4 | 868.0 | 839.5 | 803.1 | 790.7 | 784.3 |
| 10° | 1171.8 | 1135.0 | 1039.2 | 926.0 | 840.4 | 811.4 | 765.8 | 740.5 | 703.2 | 684.8 | 672.0 |
| 12.5° | 1136.8 | 1082.9 | 963.3 | 848.2 | 791.2 | 761.2 | 722.6 | 676.6 | 632.4 | 615.3 | 591.9 |
| 15° | 1140.5 | 1076.0 | 941.2 | 816.9 | 748.4 | 690.4 | 655.8 | 604.8 | 559.7 | 529.7 | 512.7 |
| 17.5° | 1196.2 | 1117.9 | 951.3 | 793.0 | 694.5 | 621.8 | 554.1 | 498.9 | 463.0 | 440.5 | 434.9 |
| 20° | 1327.8 | 1221.5 | 968.3 | 754.3 | 640.7 | 550.0 | 466.7 | 409.2 | 381.5 | 381.1 | 381.5 |
| 22.5° | 1437.3 | 1331.9 | 1002.9 | 731.3 | 586.8 | 457.9 | 375.1 | 356.7 | 351.2 | 362.7 | 364.1 |
| 25° | 1585.1 | 1456.2 | 1062.2 | 719.4 | 537.1 | 390.3 | 339.2 | 332.3 | 331.8 | 346.6 | 347.0 |
| 27.5° | 1736.5 | 1564.8 | 1097.7 | 684.4 | 486.5 | 355.3 | 317.6 | 316.2 | 323.5 | 339.2 | 337.8 |
| 30° | 1839.6 | 1655.9 | 1161.6 | 642.5 | 426.6 | 324.5 | 308.8 | 310.7 | 320.8 | 332.8 | 334.6 |
| 32.5° | 1959.7 | 1745.7 | 1178.2 | 619.5 | 389.8 | 298.7 | 287.7 | 291.8 | 304.7 | 323.5 | 333.7 |
| 35° | 2097.3 | 1809.2 | 1203.5 | 588.2 | 376.0 | 278.9 | 273.4 | 278.0 | 293.6 | 306.1 | 317.1 |
| 37.5° | 2199.0 | 1921.5 | 1208.1 | 563.8 | 360.8 | 267.9 | 259.1 | 274.3 | 283.5 | 301.0 | 306.5 |
| 40° | 2274.5 | 2003.0 | 1220.1 | 548.6 | 348.9 | 253.6 | 253.6 | 263.7 | 276.1 | 292.3 | 303.3 |
| 42.5° | 2322.8 | 2062.3 | 1228.8 | 534.8 | 325.9 | 249.5 | 247.1 | 257.3 | 273.8 | 289.5 | 294.6 |
| 44° | 2352.3 | 2087.7 | 1220.1 | 521.9 | 319.4 | 244.4 | 244.4 | 253.1 | 266.0 | 284.4 | 290.4 |
| 45° | 2359.7 | 2119.4 | 1200.8 | 521.5 | 311.6 | 238.4 | 237.5 | 254.1 | 262.8 | 285.3 | 289.0 |
| 47.5° | 2388.2 | 2158.5 | 1203.1 | 506.7 | 292.7 | 224.1 | 240.2 | 247.6 | 255.4 | 275.2 | 287.7 |
| 50° | 2387.3 | 2182.9 | 1198.0 | 485.1 | 278.9 | 208.0 | 234.7 | 243.0 | 250.8 | 271.1 | 276.1 |
| 52.5° | 2393.7 | 2274.1 | 1244.5 | 450.6 | 254.1 | 187.3 | 216.3 | 234.7 | 244.4 | 261.4 | 272.0 |
| 55° | 2390.5 | 2326.1 | 1290.5 | 424.8 | 219.1 | 174.9 | 200.7 | 222.3 | 236.1 | 254.1 | 259.1 |
| 57.5° | 2183.4 | 2055.9 | 1194.3 | 376.5 | 181.3 | 160.2 | 178.6 | 209.4 | 226.9 | 245.3 | 251.8 |
| 60° | 1783.9 | 1584.6 | 984.9 | 277.1 | 149.1 | 147.3 | 166.1 | 205.3 | 212.6 | 228.7 | 239.8 |
| 62.5° | 1648.6 | 1389.9 | 781.0 | 211.7 | 127.5 | 134.9 | 153.3 | 185.5 | 197.0 | 216.8 | 226.9 |
| 65° | 1290.1 | 923.2 | 483.7 | 143.1 | 112.3 | 121.0 | 138.5 | 162.5 | 181.3 | 199.7 | 211.7 |
| 67.5° | 764.0 | 504.4 | 239.3 | 100.3 | 98.0 | 107.2 | 125.2 | 143.1 | 164.8 | 185.0 | 191.0 |
| 70° | 416.1 | 248.1 | 102.2 | 76.4 | 83.3 | 91.6 | 109.1 | 121.5 | 142.2 | 157.9 | 168.0 |
| 72.5° | 133.5 | 75.5 | 51.1 | 56.6 | 63.5 | 73.2 | 83.8 | 99.0 | 113.7 | 122.9 | 131.2 |
| 75° | 32.2 | 31.8 | 36.4 | 39.6 | 46.0 | 53.4 | 62.1 | 70.0 | 81.5 | 90.2 | 97.6 |
| 77.5° | 22.6 | 24.4 | 28.1 | 32.7 | 35.0 | 37.7 | 43.3 | 49.2 | 54.3 | 60.8 | 65.4 |
| 80° | 17.5 | 18.9 | 21.6 | 23.9 | 26.2 | 28.5 | 31.3 | 33.6 | 36.8 | 41.0 | 43.3 |
| 82.5° | 16.6 | 17.5 | 20.3 | 21.6 | 20.7 | 20.3 | 22.1 | 23.0 | 23.5 | 24.9 | 26.2 |
| 85° | 1.4 | 0.0 | 0.9 | 3.2 | 7.8 | 11.5 | 12.4 | 12.4 | 12.0 | 12.9 | 12.9 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 1.8 | 1.4 |
| 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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CATALOG NUMBER: GALN-SA1B-722-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1406.0 | 1406.0 | 1406.0 | 1406.0 | 1406.0 | 1406.0 | 1406.0 | 1406.0 | 1406.0 | 1406.0 | 1406.0 |
| 2.5° | 1244.5 | 1228.8 | 1234.8 | 1242.2 | 1231.6 | 1207.2 | 1213.7 | 1210.9 | 1235.7 | 1233.9 | 1258.8 |
| 5° | 1043.4 | 1019.0 | 1021.7 | 1057.6 | 1046.1 | 1058.6 | 1033.7 | 1030.5 | 1035.1 | 1037.4 | 1041.5 |
| 7.5° | 798.5 | 795.3 | 822.9 | 853.3 | 867.6 | 852.8 | 828.4 | 822.9 | 817.8 | 807.7 | 830.7 |
| 10° | 651.7 | 652.6 | 650.8 | 673.8 | 689.9 | 686.7 | 672.0 | 670.1 | 660.4 | 656.8 | 669.7 |
| 12.5° | 581.7 | 569.3 | 563.3 | 556.0 | 568.4 | 576.7 | 570.2 | 565.6 | 566.1 | 570.7 | 572.5 |
| 15° | 514.1 | 506.3 | 493.4 | 485.1 | 491.1 | 486.9 | 484.6 | 493.8 | 491.5 | 490.6 | 501.7 |
| 17.5° | 438.1 | 444.6 | 443.7 | 434.5 | 442.3 | 439.1 | 438.6 | 432.2 | 423.4 | 417.0 | 420.7 |
| 20° | 388.0 | 399.9 | 409.2 | 409.6 | 413.8 | 413.3 | 406.4 | 386.6 | 380.2 | 378.8 | 379.7 |
| 22.5° | 370.0 | 376.5 | 387.5 | 403.2 | 403.2 | 395.8 | 387.5 | 364.5 | 358.5 | 352.1 | 349.3 |
| 25° | 355.8 | 368.2 | 382.5 | 384.3 | 391.7 | 384.8 | 371.4 | 359.9 | 347.5 | 338.7 | 338.7 |
| 27.5° | 348.4 | 362.2 | 372.8 | 376.0 | 386.1 | 380.6 | 366.8 | 352.1 | 337.4 | 336.9 | 329.1 |
| 30° | 345.2 | 358.1 | 365.0 | 372.8 | 377.4 | 368.7 | 364.5 | 348.9 | 334.1 | 330.5 | 317.6 |
| 32.5° | 335.5 | 353.9 | 366.8 | 365.0 | 368.7 | 365.0 | 359.0 | 346.1 | 329.5 | 321.2 | 319.9 |
| 35° | 324.5 | 342.9 | 356.7 | 366.4 | 368.7 | 360.8 | 357.1 | 339.7 | 317.1 | 313.0 | 298.7 |
| 37.5° | 318.5 | 329.5 | 346.6 | 362.2 | 365.4 | 361.3 | 348.9 | 330.9 | 308.4 | 303.8 | 291.3 |
| 40° | 311.1 | 325.4 | 338.7 | 351.6 | 361.3 | 351.2 | 336.9 | 319.4 | 309.3 | 295.5 | 291.8 |
| 42.5° | 305.6 | 321.7 | 332.8 | 347.0 | 358.1 | 344.7 | 328.2 | 316.2 | 301.9 | 292.7 | 282.1 |
| 44° | 303.8 | 318.5 | 325.9 | 343.3 | 352.5 | 342.4 | 328.6 | 316.2 | 299.6 | 291.3 | 282.1 |
| 45° | 297.3 | 317.6 | 325.4 | 341.0 | 348.9 | 340.6 | 323.1 | 310.7 | 298.7 | 288.6 | 278.9 |
| 47.5° | 290.9 | 304.7 | 318.0 | 330.5 | 336.0 | 333.2 | 318.5 | 303.3 | 289.0 | 283.0 | 273.8 |
| 50° | 289.0 | 302.8 | 315.3 | 326.8 | 333.2 | 327.7 | 314.3 | 299.6 | 283.0 | 273.4 | 265.6 |
| 52.5° | 279.8 | 296.9 | 310.7 | 314.3 | 322.6 | 319.4 | 309.3 | 293.2 | 277.5 | 269.2 | 262.8 |
| 55° | 266.5 | 284.4 | 303.3 | 307.9 | 319.9 | 314.8 | 299.6 | 284.4 | 271.1 | 258.7 | 250.4 |
| 57.5° | 261.4 | 278.9 | 297.3 | 303.3 | 310.7 | 302.4 | 298.7 | 282.6 | 261.4 | 255.0 | 242.1 |
| 60° | 248.5 | 270.6 | 285.8 | 299.6 | 300.1 | 297.8 | 291.3 | 272.9 | 255.4 | 243.5 | 234.3 |
| 62.5° | 238.4 | 259.1 | 271.1 | 284.0 | 291.8 | 285.3 | 278.9 | 261.9 | 243.0 | 229.7 | 219.1 |
| 65° | 223.7 | 242.5 | 252.7 | 260.5 | 269.2 | 268.3 | 257.3 | 244.8 | 225.1 | 214.5 | 204.3 |
| 67.5° | 201.1 | 217.7 | 231.5 | 238.9 | 244.4 | 243.0 | 234.7 | 226.0 | 205.7 | 195.1 | 187.8 |
| 70° | 174.0 | 191.0 | 199.7 | 203.9 | 209.4 | 212.2 | 205.7 | 201.6 | 183.6 | 169.8 | 162.9 |
| 72.5° | 139.9 | 151.0 | 163.8 | 167.5 | 169.8 | 171.7 | 171.7 | 168.0 | 149.6 | 144.1 | 132.1 |
| 75° | 103.1 | 111.8 | 121.5 | 121.5 | 125.6 | 126.1 | 127.0 | 124.7 | 110.9 | 103.6 | 100.8 |
| 77.5° | 70.0 | 76.4 | 84.2 | 87.4 | 90.2 | 89.7 | 89.3 | 82.8 | 75.5 | 72.3 | 69.5 |
| 80° | 45.6 | 52.0 | 55.7 | 59.8 | 62.6 | 62.1 | 63.1 | 58.5 | 55.2 | 49.7 | 50.6 |
| 82.5° | 27.2 | 32.2 | 35.9 | 41.0 | 41.0 | 42.3 | 42.3 | 41.0 | 37.7 | 35.0 | 35.0 |
| 85° | 12.9 | 17.0 | 19.3 | 22.6 | 24.4 | 24.9 | 22.1 | 18.9 | 15.6 | 14.3 | 15.6 |
| 87.5° | 2.3 | 3.2 | 4.6 | 4.1 | 5.1 | 4.6 | 4.6 | 4.6 | 4.6 | 3.7 | 4.1 |
| 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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| 0° | 1406.0 | 1406.0 | 1406.0 | 1406.0 | 1406.0 | 1406.0 | 1406.0 | 1406.0 | 1406.0 | 1406.0 |
| 2.5° | 1249.6 | 1272.6 | 1288.7 | 1315.4 | 1361.4 | 1398.2 | 1436.0 | 1464.0 | 1467.2 | 1475.5 |
| 5° | 1056.7 | 1069.1 | 1110.1 | 1163.5 | 1201.2 | 1263.4 | 1303.4 | 1376.1 | 1403.3 | 1432.3 |
| 7.5° | 825.2 | 845.5 | 900.2 | 936.1 | 1019.0 | 1096.8 | 1177.3 | 1267.0 | 1302.9 | 1307.1 |
| 10° | 695.9 | 725.3 | 762.6 | 820.1 | 865.3 | 951.8 | 1052.1 | 1152.0 | 1192.0 | 1198.9 |
| 12.5° | 611.2 | 648.9 | 698.6 | 740.1 | 783.3 | 858.8 | 955.0 | 1078.3 | 1130.4 | 1161.6 |
| 15° | 529.7 | 568.9 | 623.6 | 681.2 | 719.4 | 809.6 | 922.8 | 1061.8 | 1129.4 | 1157.0 |
| 17.5° | 446.0 | 482.3 | 527.4 | 589.6 | 666.4 | 767.7 | 917.7 | 1117.0 | 1191.1 | 1223.3 |
| 20° | 374.2 | 394.4 | 446.9 | 510.9 | 607.1 | 724.9 | 919.6 | 1198.5 | 1307.1 | 1321.4 |
| 22.5° | 346.1 | 350.7 | 371.4 | 430.3 | 535.7 | 681.2 | 952.2 | 1314.0 | 1437.3 | 1484.3 |
| 25° | 324.5 | 323.5 | 329.1 | 368.7 | 483.7 | 664.1 | 984.5 | 1420.3 | 1581.8 | 1632.9 |
| 27.5° | 312.5 | 303.3 | 303.8 | 341.0 | 446.9 | 636.5 | 1025.9 | 1542.3 | 1745.7 | 1768.2 |
| 30° | 306.5 | 304.7 | 299.2 | 314.3 | 406.9 | 595.1 | 1032.8 | 1662.4 | 1842.3 | 1875.0 |
| 32.5° | 302.8 | 284.9 | 278.0 | 283.5 | 369.1 | 550.0 | 1058.6 | 1741.6 | 1962.0 | 1947.7 |
| 35° | 284.4 | 268.3 | 263.7 | 269.2 | 342.4 | 524.7 | 1041.5 | 1810.6 | 2051.8 | 2075.7 |
| 37.5° | 277.5 | 263.3 | 254.1 | 249.5 | 317.6 | 503.5 | 1032.8 | 1916.9 | 2138.7 | 2196.3 |
| 40° | 271.1 | 255.9 | 244.8 | 240.2 | 298.2 | 475.4 | 1030.0 | 1998.8 | 2239.1 | 2273.6 |
| 42.5° | 263.7 | 254.1 | 241.6 | 233.3 | 274.8 | 447.4 | 998.3 | 2024.1 | 2269.9 | 2307.2 |
| 44° | 261.4 | 246.7 | 233.8 | 231.0 | 265.6 | 433.1 | 991.8 | 2047.2 | 2296.6 | 2353.2 |
| 45° | 259.1 | 245.3 | 230.6 | 226.9 | 262.3 | 425.3 | 983.1 | 2052.7 | 2340.8 | 2351.4 |
| 47.5° | 252.7 | 243.9 | 229.7 | 219.5 | 255.4 | 408.2 | 956.8 | 2021.4 | 2295.7 | 2297.5 |
| 50° | 247.6 | 237.5 | 222.8 | 203.0 | 246.2 | 394.0 | 968.8 | 2009.9 | 2187.1 | 2191.2 |
| 52.5° | 242.1 | 226.9 | 218.6 | 184.6 | 231.0 | 382.0 | 994.1 | 2061.9 | 2199.5 | 2198.6 |
| 55° | 235.6 | 219.1 | 198.8 | 168.9 | 205.7 | 366.8 | 1055.3 | 2164.5 | 2314.6 | 2330.2 |
| 57.5° | 225.5 | 211.3 | 182.3 | 155.1 | 176.7 | 337.8 | 1035.5 | 1968.0 | 2129.5 | 2132.3 |
| 60° | 212.2 | 198.8 | 165.2 | 144.5 | 145.0 | 266.5 | 926.0 | 1533.5 | 1680.3 | 1720.4 |
| 62.5° | 199.3 | 191.9 | 151.0 | 129.3 | 123.3 | 212.2 | 782.9 | 1274.4 | 1442.4 | 1475.5 |
| 65° | 184.1 | 166.1 | 138.5 | 117.8 | 105.9 | 148.7 | 554.6 | 952.2 | 1125.3 | 1169.9 |
| 67.5° | 164.8 | 145.4 | 122.0 | 103.6 | 90.7 | 99.4 | 286.3 | 541.2 | 716.6 | 742.8 |
| 70° | 144.1 | 126.1 | 102.6 | 87.4 | 73.2 | 68.6 | 126.1 | 258.2 | 391.7 | 418.8 |
| 72.5° | 118.3 | 101.7 | 81.9 | 69.0 | 54.8 | 47.4 | 42.3 | 69.0 | 139.0 | 161.5 |
| 75° | 85.6 | 74.1 | 61.7 | 49.2 | 38.7 | 30.4 | 24.9 | 20.7 | 23.0 | 24.9 |
| 77.5° | 63.1 | 53.8 | 45.6 | 35.0 | 27.2 | 21.6 | 17.0 | 12.9 | 12.4 | 12.0 |
| 80° | 49.2 | 43.7 | 36.4 | 28.1 | 21.2 | 16.1 | 12.0 | 8.7 | 7.8 | 7.8 |
| 82.5° | 38.7 | 35.9 | 29.9 | 23.0 | 17.5 | 12.9 | 8.7 | 6.0 | 5.1 | 5.1 |
| 85° | 14.7 | 14.7 | 21.6 | 18.9 | 13.3 | 9.2 | 6.0 | 3.2 | 2.8 | 2.8 |
| 87.5° | 3.7 | 3.7 | 3.7 | 3.7 | 3.2 | 2.8 | 2.8 | 1.4 | 0.9 | 0.9 |
| 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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