

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: P451423

Luminaire Tested: **GALN-SA2B-740-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451423
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-740-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9863 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

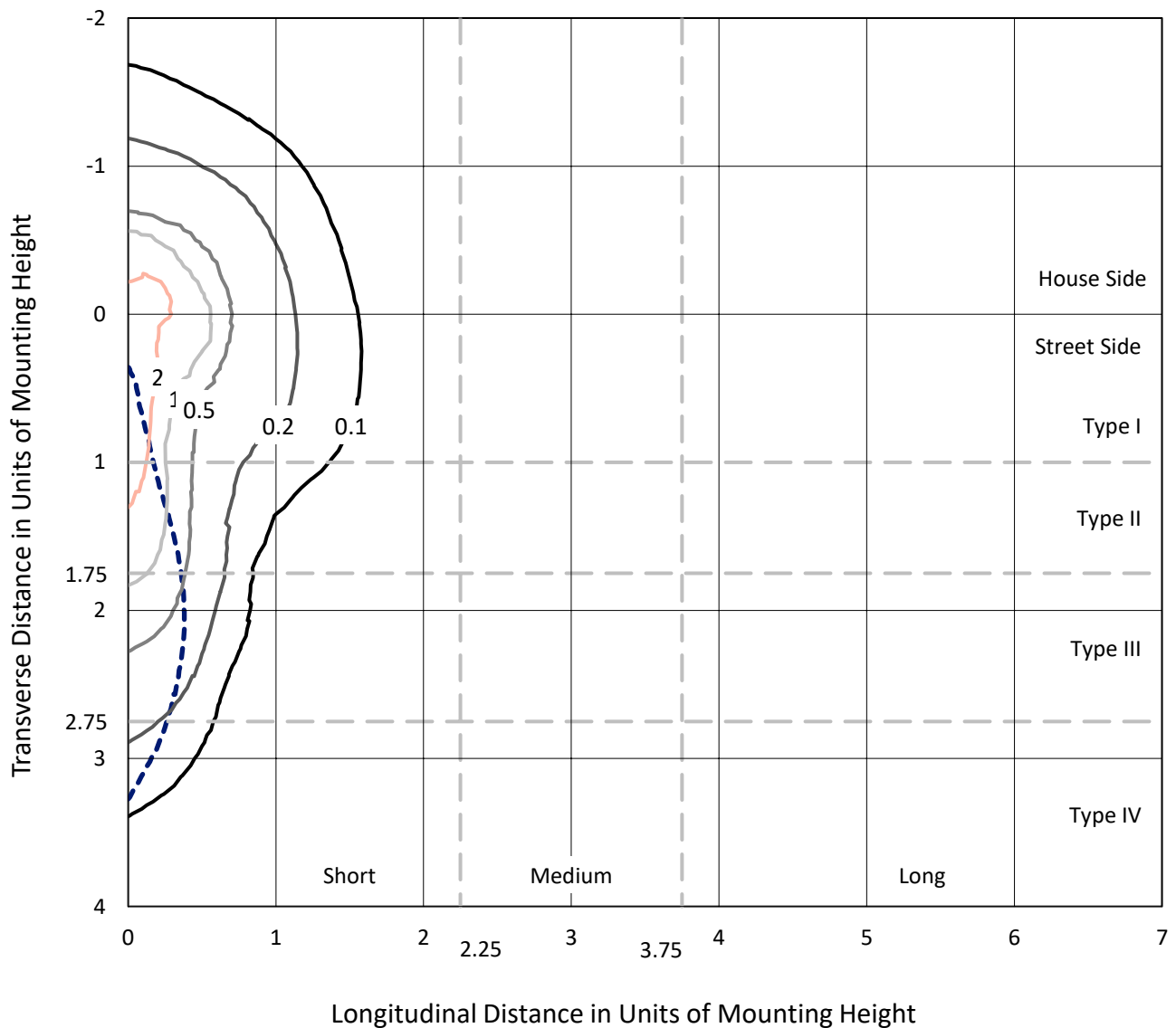
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P451423
 CATALOG NUMBER: GALN-SA2B-740-U-SLR

Iso-Footcandle Lines of Horizontal Illumination

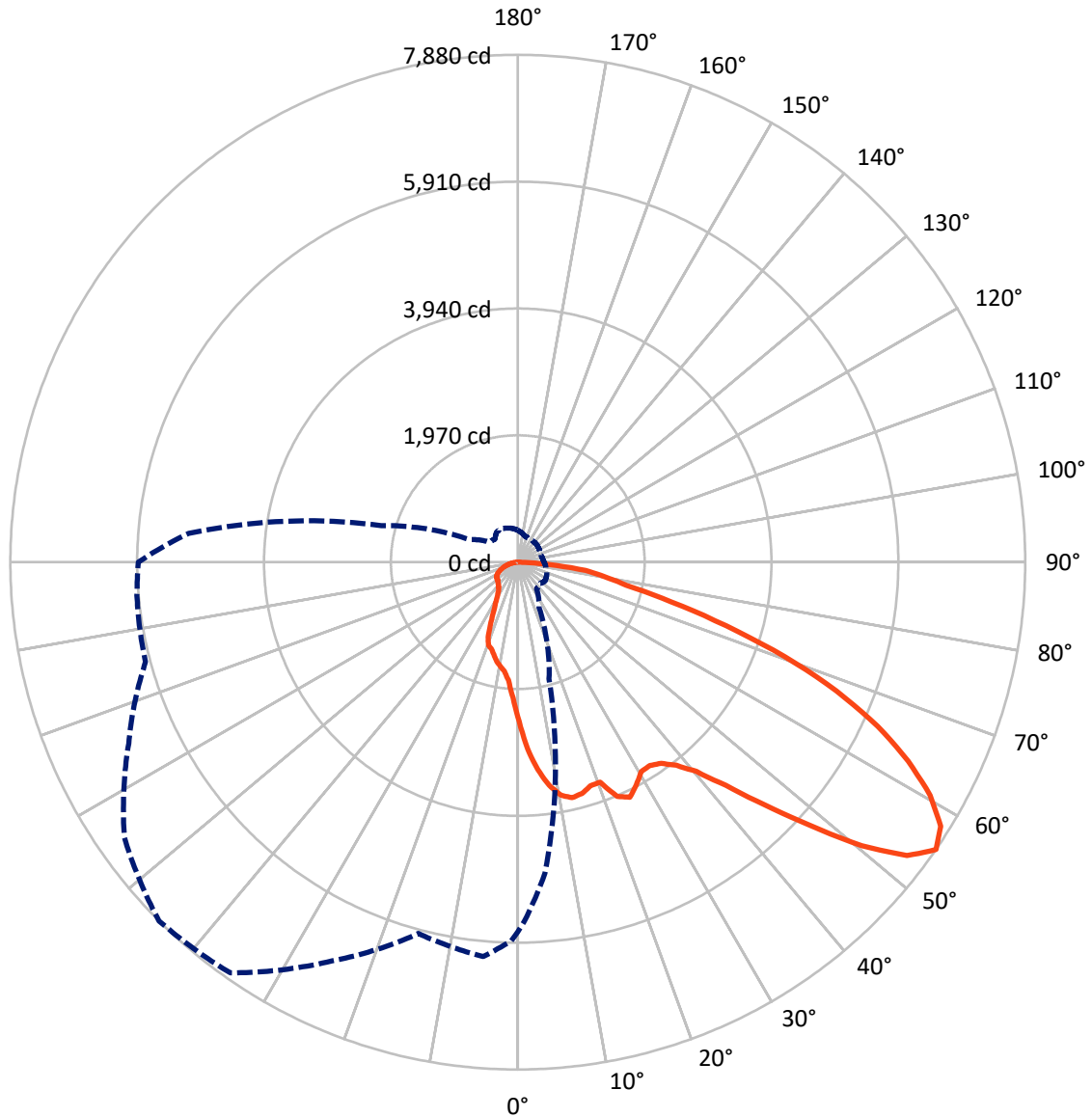
× Max cd
 - - - 1/2 Max cd



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



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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CATALOG NUMBER: GALN-SA2B-740-U-SLR

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2157.5 | 0.0 | 2157.5 |
| | % Fixture | 21.9 | 0.0 | 21.9 |
| Street Side | Lumens | 7705.5 | 0.0 | 7705.5 |
| | % Fixture | 78.1 | 0.0 | 78.1 |
| Total | Lumens | 9863.0 | 0.0 | 9863.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 209.8 | 2.1 |
| 10°-20° | 556.6 | 5.6 |
| 20°-30° | 961.5 | 9.7 |
| 30°-40° | 1117.4 | 11.3 |
| 40°-50° | 1559.0 | 15.8 |
| 50°-60° | 2115.4 | 21.4 |
| 60°-70° | 2012.5 | 20.4 |
| 70°-80° | 1087.2 | 11.0 |
| 80°-90° | 243.7 | 2.5 |
| 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° | 9863.0 | 100.0 |
| 0°-180° | 9863.0 | 100.0 |

Coefficient of Utilization



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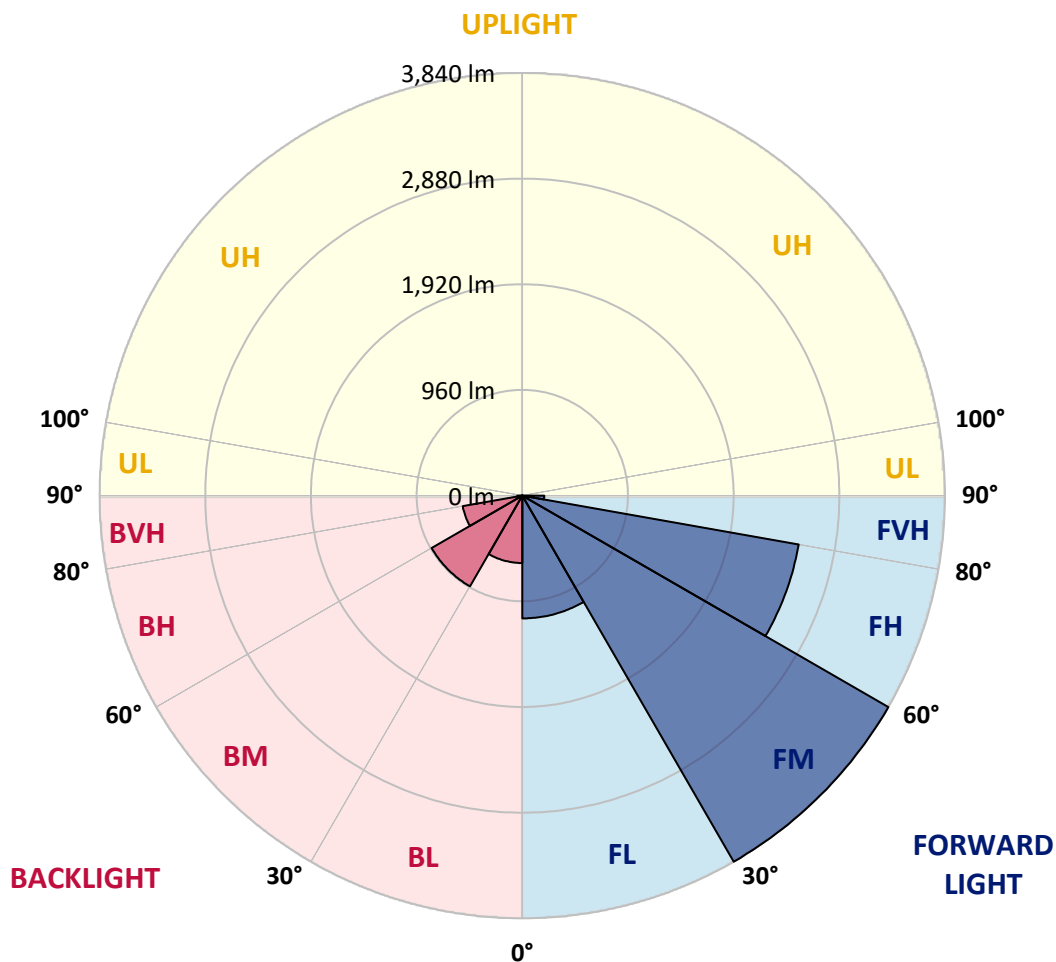
CATALOG NUMBER: GALN-SA2B-740-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1115.5 | 11.3 | | | |
| FM | (30°-60°) | 3840.4 | 38.9 | | | |
| FH | (60°-80°) | 2550.4 | 25.9 | | | G2/5000 |
| FVH | (80°-90°) | 199.1 | 2.0 | | | G2/225 |
| BL | (0°-30°) | 612.3 | 6.2 | B2/1000 | | |
| BM | (30°-60°) | 951.3 | 9.6 | B1/1000 | | |
| BH | (60°-80°) | 549.3 | 5.6 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 44.5 | 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 IV Short





REPORT NUMBER: P451423
 CATALOG NUMBER: GALN-SA2B-740-U-SLR

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2475.2 | 2475.2 | 2475.2 | 2475.2 | 2475.2 | 2475.2 | 2475.2 | 2475.2 | 2475.2 | 2475.2 | 2475.2 |
| 2.5° | 2749.8 | 2739.4 | 2710.1 | 2633.3 | 2555.9 | 2477.2 | 2416.7 | 2341.2 | 2262.5 | 2220.2 | 2166.1 |
| 5° | 2787.6 | 2775.8 | 2706.9 | 2533.8 | 2377.0 | 2212.3 | 2080.9 | 1965.7 | 1918.9 | 1849.9 | 1794.6 |
| 7.5° | 2699.1 | 2693.9 | 2590.4 | 2341.8 | 2127.1 | 1911.7 | 1762.7 | 1670.3 | 1586.4 | 1555.2 | 1561.7 |
| 10° | 2618.4 | 2597.6 | 2468.1 | 2143.4 | 1892.9 | 1717.8 | 1611.1 | 1520.7 | 1461.5 | 1445.8 | 1449.1 |
| 12.5° | 2551.4 | 2523.4 | 2370.5 | 2010.0 | 1790.7 | 1650.8 | 1514.8 | 1420.5 | 1366.5 | 1381.4 | 1432.2 |
| 15° | 2537.7 | 2500.0 | 2329.5 | 1964.4 | 1734.7 | 1554.5 | 1405.5 | 1296.8 | 1256.5 | 1289.0 | 1370.4 |
| 17.5° | 2626.2 | 2578.7 | 2399.7 | 1979.4 | 1681.4 | 1456.2 | 1273.4 | 1149.1 | 1115.3 | 1167.3 | 1273.4 |
| 20° | 2910.5 | 2840.3 | 2619.0 | 2065.9 | 1676.2 | 1407.4 | 1196.6 | 1071.7 | 1086.0 | 1184.9 | 1295.5 |
| 22.5° | 3436.3 | 3330.9 | 3002.9 | 2192.2 | 1703.5 | 1395.1 | 1181.0 | 1115.9 | 1194.7 | 1278.6 | 1351.5 |
| 25° | 3540.4 | 3457.8 | 3071.9 | 2220.8 | 1697.7 | 1386.6 | 1225.3 | 1257.8 | 1345.6 | 1387.3 | 1361.9 |
| 27.5° | 3599.0 | 3504.6 | 3067.4 | 2079.0 | 1518.1 | 1257.8 | 1171.2 | 1225.3 | 1247.4 | 1207.0 | 1138.1 |
| 30° | 3735.6 | 3637.4 | 3144.8 | 1929.9 | 1250.0 | 933.1 | 817.9 | 795.8 | 810.8 | 818.6 | 793.8 |
| 32.5° | 3923.7 | 3826.7 | 3290.5 | 1832.3 | 1080.8 | 771.7 | 658.5 | 627.3 | 620.1 | 611.6 | 601.9 |
| 35° | 4167.0 | 4018.0 | 3433.7 | 1769.9 | 1011.2 | 713.8 | 609.7 | 585.6 | 575.9 | 564.1 | 553.7 |
| 37.5° | 4414.3 | 4258.1 | 3614.6 | 1704.2 | 965.0 | 673.5 | 577.2 | 566.1 | 549.2 | 536.8 | 521.9 |
| 40° | 4677.2 | 4502.1 | 3779.2 | 1646.9 | 920.1 | 647.4 | 553.7 | 552.4 | 530.3 | 516.0 | 498.4 |
| 42.5° | 4904.9 | 4724.7 | 3926.3 | 1611.8 | 885.6 | 620.1 | 539.4 | 543.3 | 520.6 | 499.1 | 476.3 |
| 45° | 5085.8 | 4908.8 | 4062.3 | 1611.8 | 857.6 | 592.8 | 536.8 | 534.2 | 511.4 | 484.8 | 458.7 |
| 47.5° | 5244.6 | 5061.7 | 4195.0 | 1652.8 | 840.0 | 570.0 | 522.5 | 527.1 | 503.6 | 469.8 | 444.4 |
| 50° | 5367.5 | 5206.2 | 4373.9 | 1716.5 | 822.5 | 551.8 | 504.3 | 529.0 | 497.1 | 462.0 | 432.7 |
| 52.5° | 5524.4 | 5379.9 | 4589.3 | 1803.7 | 807.5 | 531.6 | 488.0 | 529.0 | 496.5 | 462.6 | 430.8 |
| 55° | 5741.7 | 5589.4 | 4848.9 | 1875.9 | 783.4 | 512.7 | 473.7 | 514.0 | 494.5 | 459.4 | 425.6 |
| 57.5° | 5894.0 | 5780.1 | 5032.4 | 1924.1 | 748.9 | 488.7 | 460.7 | 499.7 | 486.1 | 447.0 | 409.9 |
| 58° | 5901.1 | 5789.8 | 5059.1 | 1935.2 | 740.5 | 484.1 | 457.4 | 493.2 | 482.2 | 441.8 | 404.7 |
| 60° | 5819.1 | 5723.5 | 5064.3 | 1919.5 | 692.3 | 461.3 | 440.5 | 466.5 | 461.3 | 411.2 | 376.7 |
| 62.5° | 5521.1 | 5419.0 | 4854.2 | 1792.7 | 628.6 | 433.4 | 414.5 | 430.8 | 419.0 | 368.3 | 336.4 |
| 65° | 5097.5 | 4909.5 | 4422.1 | 1593.5 | 583.0 | 403.4 | 379.4 | 380.7 | 368.3 | 331.9 | 303.9 |
| 67.5° | 4533.4 | 4323.2 | 3744.1 | 1343.0 | 548.5 | 370.2 | 337.7 | 334.5 | 319.5 | 296.1 | 273.3 |
| 70° | 3839.1 | 3695.3 | 3042.6 | 1092.5 | 510.1 | 333.8 | 290.9 | 288.9 | 279.8 | 262.2 | 242.1 |
| 72.5° | 3111.6 | 2928.8 | 2457.0 | 874.5 | 463.3 | 298.7 | 247.3 | 251.2 | 239.5 | 227.1 | 208.9 |
| 75° | 2296.3 | 2176.6 | 1899.4 | 701.4 | 400.2 | 260.3 | 206.3 | 207.6 | 202.4 | 189.4 | 175.0 |
| 77.5° | 1512.2 | 1476.4 | 1358.6 | 460.7 | 307.8 | 206.9 | 168.5 | 169.8 | 165.9 | 154.2 | 139.2 |
| 80° | 1017.7 | 993.6 | 920.7 | 296.7 | 205.6 | 149.7 | 130.1 | 131.4 | 130.8 | 118.4 | 98.3 |
| 82.5° | 627.3 | 616.9 | 593.4 | 200.4 | 142.5 | 107.4 | 85.9 | 89.8 | 97.0 | 83.3 | 67.0 |
| 85° | 296.1 | 296.7 | 358.5 | 109.3 | 83.9 | 69.0 | 46.8 | 50.1 | 50.1 | 50.1 | 37.7 |
| 87.5° | 38.4 | 40.3 | 49.5 | 46.2 | 30.6 | 26.0 | 16.9 | 14.3 | 12.4 | 16.3 | 11.7 |
| 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):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2475.2 | 2475.2 | 2475.2 | 2475.2 | 2475.2 | 2475.2 | 2475.2 | 2475.2 | 2475.2 | 2475.2 | 2475.2 |
| 2.5° | 2147.3 | 2134.3 | 2106.3 | 2099.8 | 2095.9 | 2106.9 | 2077.7 | 2085.5 | 2072.5 | 2108.9 | 2103.0 |
| 5° | 1797.9 | 1799.2 | 1821.9 | 1836.9 | 1842.1 | 1836.9 | 1817.4 | 1783.5 | 1757.5 | 1747.1 | 1749.7 |
| 7.5° | 1549.3 | 1572.1 | 1611.1 | 1654.7 | 1694.4 | 1706.1 | 1695.0 | 1630.6 | 1560.4 | 1516.1 | 1501.8 |
| 10° | 1466.7 | 1497.2 | 1542.1 | 1576.6 | 1611.8 | 1639.7 | 1645.6 | 1595.5 | 1512.2 | 1407.4 | 1366.5 |
| 12.5° | 1471.2 | 1512.9 | 1555.8 | 1566.9 | 1563.6 | 1574.7 | 1569.5 | 1561.0 | 1506.3 | 1373.0 | 1304.6 |
| 15° | 1428.3 | 1477.7 | 1507.7 | 1501.8 | 1491.4 | 1481.6 | 1468.0 | 1446.5 | 1427.0 | 1333.3 | 1257.8 |
| 17.5° | 1329.4 | 1380.1 | 1404.8 | 1406.8 | 1406.8 | 1404.2 | 1371.0 | 1363.2 | 1360.6 | 1315.0 | 1268.8 |
| 20° | 1347.6 | 1375.6 | 1364.5 | 1346.3 | 1351.5 | 1369.1 | 1349.5 | 1345.6 | 1360.6 | 1380.8 | 1372.3 |
| 22.5° | 1358.0 | 1348.2 | 1264.9 | 1184.3 | 1166.0 | 1220.7 | 1231.8 | 1275.4 | 1335.9 | 1408.7 | 1456.2 |
| 25° | 1293.6 | 1214.8 | 1065.8 | 974.7 | 923.3 | 974.1 | 1040.5 | 1121.1 | 1211.6 | 1305.3 | 1360.6 |
| 27.5° | 1081.4 | 1021.6 | 914.9 | 832.9 | 788.0 | 795.8 | 852.4 | 925.9 | 1009.9 | 1073.0 | 1113.3 |
| 30° | 814.7 | 788.0 | 732.7 | 704.7 | 677.4 | 670.9 | 694.9 | 722.9 | 760.0 | 767.8 | 778.2 |
| 32.5° | 599.9 | 596.0 | 599.3 | 590.2 | 585.0 | 584.3 | 577.2 | 583.7 | 587.6 | 592.1 | 583.0 |
| 35° | 542.7 | 537.5 | 528.4 | 525.8 | 522.5 | 523.8 | 520.6 | 517.3 | 519.9 | 523.8 | 526.4 |
| 37.5° | 513.4 | 505.6 | 492.6 | 488.0 | 488.0 | 490.0 | 484.8 | 483.5 | 488.0 | 500.4 | 506.9 |
| 40° | 490.6 | 481.5 | 466.5 | 460.7 | 464.6 | 469.8 | 462.6 | 460.0 | 471.1 | 484.1 | 494.5 |
| 42.5° | 469.1 | 462.0 | 447.7 | 441.2 | 444.4 | 454.2 | 443.8 | 441.8 | 456.1 | 470.4 | 482.8 |
| 45° | 450.9 | 443.8 | 430.8 | 427.5 | 428.8 | 437.9 | 430.8 | 430.8 | 444.4 | 460.0 | 471.1 |
| 47.5° | 436.6 | 427.5 | 419.0 | 416.4 | 417.7 | 422.9 | 421.6 | 421.6 | 434.7 | 450.9 | 462.0 |
| 50° | 422.3 | 414.5 | 403.4 | 404.7 | 408.0 | 415.1 | 414.5 | 416.4 | 429.5 | 449.6 | 461.3 |
| 52.5° | 415.8 | 404.1 | 391.7 | 393.0 | 402.8 | 411.2 | 408.6 | 410.6 | 425.6 | 463.3 | 480.2 |
| 55° | 408.6 | 393.0 | 378.7 | 380.7 | 391.7 | 404.1 | 400.8 | 403.4 | 421.0 | 472.4 | 495.8 |
| 57.5° | 395.0 | 376.7 | 361.1 | 362.4 | 378.7 | 391.7 | 386.5 | 389.8 | 410.6 | 462.6 | 487.4 |
| 58° | 389.1 | 373.5 | 358.5 | 359.2 | 374.8 | 389.1 | 383.3 | 385.9 | 407.3 | 460.0 | 483.5 |
| 60° | 364.4 | 355.3 | 342.3 | 342.9 | 357.9 | 370.2 | 367.0 | 369.6 | 390.4 | 441.2 | 458.7 |
| 62.5° | 330.6 | 325.3 | 322.1 | 322.1 | 331.2 | 342.9 | 346.2 | 349.4 | 368.3 | 398.9 | 414.5 |
| 65° | 294.1 | 294.1 | 294.8 | 294.8 | 300.6 | 315.6 | 317.5 | 326.0 | 343.6 | 358.5 | 370.2 |
| 67.5° | 269.4 | 268.1 | 269.4 | 266.1 | 268.7 | 277.8 | 287.6 | 295.4 | 313.6 | 324.0 | 327.9 |
| 70° | 237.5 | 236.9 | 237.5 | 232.9 | 236.2 | 244.0 | 250.5 | 263.5 | 282.4 | 290.2 | 292.2 |
| 72.5° | 206.3 | 206.3 | 207.6 | 204.3 | 204.3 | 212.8 | 217.3 | 231.6 | 249.2 | 253.8 | 254.4 |
| 75° | 173.7 | 175.7 | 175.7 | 171.1 | 172.4 | 177.6 | 183.5 | 195.2 | 211.5 | 214.7 | 214.7 |
| 77.5° | 137.9 | 145.1 | 145.1 | 140.5 | 142.5 | 143.2 | 151.0 | 156.8 | 169.2 | 170.5 | 165.3 |
| 80° | 100.2 | 107.4 | 113.2 | 109.3 | 112.6 | 108.7 | 113.2 | 117.1 | 129.5 | 123.6 | 115.2 |
| 82.5° | 71.6 | 76.8 | 81.3 | 82.0 | 78.7 | 71.6 | 77.4 | 78.1 | 83.9 | 76.1 | 71.6 |
| 85° | 39.7 | 44.2 | 50.1 | 47.5 | 42.3 | 37.7 | 39.7 | 41.0 | 40.3 | 38.4 | 35.8 |
| 87.5° | 10.4 | 11.1 | 12.4 | 9.1 | 8.5 | 7.2 | 9.8 | 9.8 | 11.1 | 11.7 | 11.1 |
| 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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 CATALOG NUMBER: GALN-SA2B-740-U-SLR

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2475.2 | 2475.2 | 2475.2 | 2475.2 | 2475.2 | 2475.2 | 2475.2 | 2475.2 | 2475.2 | 2475.2 | 2475.2 |
| 2.5° | 2107.6 | 2136.2 | 2198.0 | 2244.9 | 2302.1 | 2371.8 | 2453.8 | 2536.4 | 2625.5 | 2653.5 | 2692.6 |
| 5° | 1743.9 | 1815.4 | 1845.4 | 1930.6 | 2015.2 | 2142.1 | 2277.4 | 2434.2 | 2606.0 | 2688.7 | 2768.0 |
| 7.5° | 1490.1 | 1528.5 | 1559.7 | 1622.2 | 1723.7 | 1877.9 | 2047.7 | 2243.6 | 2486.9 | 2607.3 | 2723.8 |
| 10° | 1353.4 | 1357.3 | 1395.7 | 1473.2 | 1561.7 | 1697.7 | 1858.4 | 2077.7 | 2349.0 | 2495.4 | 2632.0 |
| 12.5° | 1263.0 | 1246.1 | 1287.7 | 1368.4 | 1468.6 | 1594.2 | 1741.9 | 1950.8 | 2249.4 | 2399.7 | 2565.0 |
| 15° | 1183.6 | 1156.9 | 1188.2 | 1270.8 | 1369.7 | 1517.4 | 1676.2 | 1897.4 | 2210.4 | 2385.4 | 2568.9 |
| 17.5° | 1185.6 | 1112.0 | 1123.1 | 1192.7 | 1291.0 | 1441.3 | 1633.9 | 1895.5 | 2269.6 | 2471.3 | 2688.7 |
| 20° | 1332.0 | 1214.2 | 1164.1 | 1177.1 | 1272.1 | 1436.1 | 1653.4 | 1986.6 | 2464.2 | 2758.3 | 2990.6 |
| 22.5° | 1475.8 | 1404.8 | 1324.2 | 1297.5 | 1349.5 | 1521.3 | 1777.7 | 2201.9 | 2887.1 | 3330.2 | 3749.9 |
| 25° | 1425.7 | 1486.2 | 1466.0 | 1428.3 | 1440.0 | 1582.5 | 1862.3 | 2378.9 | 3215.7 | 3714.8 | 4109.1 |
| 27.5° | 1140.7 | 1250.6 | 1272.8 | 1272.1 | 1276.7 | 1393.8 | 1674.9 | 2259.8 | 3256.7 | 3788.3 | 4165.1 |
| 30° | 801.7 | 811.4 | 823.1 | 845.9 | 866.7 | 971.5 | 1310.5 | 1984.0 | 3238.5 | 3821.5 | 4198.9 |
| 32.5° | 578.5 | 591.5 | 607.7 | 639.0 | 688.4 | 821.8 | 1146.5 | 1896.1 | 3334.8 | 3958.8 | 4297.8 |
| 35° | 529.0 | 544.0 | 559.6 | 595.4 | 642.2 | 765.9 | 1081.4 | 1859.7 | 3492.9 | 4181.3 | 4475.5 |
| 37.5° | 513.4 | 530.3 | 544.0 | 570.0 | 607.7 | 725.5 | 1022.2 | 1834.9 | 3654.9 | 4416.9 | 4713.6 |
| 40° | 502.3 | 521.9 | 532.9 | 553.7 | 579.8 | 688.4 | 969.5 | 1815.4 | 3811.7 | 4632.3 | 4904.9 |
| 42.5° | 492.6 | 512.7 | 527.1 | 542.0 | 563.5 | 655.2 | 922.7 | 1795.9 | 3947.7 | 4841.1 | 5095.6 |
| 45° | 480.9 | 506.2 | 524.5 | 536.2 | 555.0 | 627.3 | 886.9 | 1780.3 | 4102.6 | 5026.6 | 5288.2 |
| 47.5° | 471.1 | 499.1 | 521.9 | 535.5 | 542.7 | 607.7 | 858.3 | 1801.8 | 4288.7 | 5220.5 | 5467.1 |
| 50° | 471.8 | 498.4 | 527.1 | 548.5 | 529.7 | 591.5 | 840.7 | 1887.0 | 4530.8 | 5450.8 | 5608.3 |
| 52.5° | 492.6 | 525.1 | 547.9 | 553.1 | 511.4 | 572.0 | 831.6 | 2036.0 | 4817.1 | 5654.5 | 5750.8 |
| 55° | 516.0 | 549.8 | 574.6 | 571.3 | 501.7 | 547.2 | 829.6 | 2194.8 | 5130.7 | 5892.0 | 5936.3 |
| 57.5° | 507.5 | 557.0 | 594.7 | 577.8 | 502.3 | 523.2 | 821.2 | 2323.0 | 5392.9 | 6069.6 | 6119.7 |
| 58° | 504.9 | 554.4 | 597.3 | 576.5 | 500.4 | 516.0 | 819.2 | 2334.0 | 5429.4 | 6082.0 | 6145.8 |
| 60° | 479.6 | 531.6 | 595.4 | 566.8 | 489.3 | 496.5 | 797.7 | 2369.8 | 5419.6 | 6018.2 | 6161.4 |
| 62.5° | 433.4 | 476.3 | 550.5 | 519.3 | 455.5 | 470.4 | 749.6 | 2325.6 | 5155.4 | 5711.1 | 5933.0 |
| 65° | 381.3 | 413.2 | 462.6 | 456.8 | 407.3 | 443.8 | 683.9 | 2150.5 | 4626.4 | 5212.7 | 5446.3 |
| 67.5° | 342.3 | 368.3 | 399.5 | 391.1 | 366.3 | 408.0 | 613.0 | 1854.5 | 4033.0 | 4614.0 | 4908.2 |
| 70° | 302.6 | 322.7 | 338.4 | 332.5 | 324.7 | 372.8 | 549.8 | 1505.0 | 3464.3 | 4045.3 | 4330.3 |
| 72.5° | 262.2 | 281.1 | 294.1 | 285.7 | 281.1 | 335.8 | 498.4 | 1168.0 | 2736.2 | 3337.4 | 3703.7 |
| 75° | 219.3 | 238.2 | 247.3 | 237.5 | 234.9 | 296.1 | 422.3 | 872.6 | 2052.9 | 2572.8 | 2889.1 |
| 77.5° | 169.8 | 190.0 | 201.7 | 198.5 | 199.8 | 243.4 | 341.0 | 597.3 | 1468.0 | 1753.6 | 2086.8 |
| 80° | 119.1 | 141.2 | 149.0 | 145.8 | 154.9 | 185.4 | 240.8 | 379.4 | 1012.5 | 1138.1 | 1373.0 |
| 82.5° | 73.5 | 94.4 | 95.7 | 98.9 | 105.4 | 137.3 | 181.5 | 231.0 | 635.7 | 657.2 | 827.7 |
| 85° | 37.1 | 44.9 | 48.2 | 53.4 | 59.2 | 83.9 | 103.5 | 143.2 | 409.3 | 309.7 | 462.6 |
| 87.5° | 12.4 | 13.0 | 15.6 | 19.5 | 24.1 | 34.5 | 44.2 | 58.6 | 101.5 | 56.0 | 143.2 |
| 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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| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2475.2 | 2475.2 | 2475.2 | 2475.2 | 2475.2 | 2475.2 | 2475.2 | 2475.2 | 2475.2 | 2475.2 |
| 2.5° | 2771.3 | 2826.6 | 2866.9 | 2904.0 | 2868.2 | 2865.0 | 2829.9 | 2773.2 | 2749.8 | 2749.8 |
| 5° | 2934.6 | 3064.1 | 3168.9 | 3235.9 | 3207.3 | 3138.3 | 3024.4 | 2879.3 | 2801.2 | 2787.6 |
| 7.5° | 2979.5 | 3235.2 | 3429.8 | 3498.8 | 3450.6 | 3298.4 | 3080.4 | 2835.7 | 2723.8 | 2699.1 |
| 10° | 2952.2 | 3284.7 | 3570.3 | 3679.7 | 3612.6 | 3382.3 | 3084.9 | 2785.0 | 2647.0 | 2618.4 |
| 12.5° | 2923.6 | 3291.2 | 3596.4 | 3754.5 | 3710.9 | 3450.0 | 3118.1 | 2751.8 | 2592.4 | 2551.4 |
| 15° | 2944.4 | 3293.8 | 3564.5 | 3727.8 | 3755.8 | 3531.3 | 3172.8 | 2775.8 | 2581.3 | 2537.7 |
| 17.5° | 3075.8 | 3343.2 | 3518.9 | 3651.0 | 3749.3 | 3641.9 | 3328.3 | 2891.0 | 2680.2 | 2626.2 |
| 20° | 3350.4 | 3461.7 | 3545.0 | 3647.1 | 3805.2 | 3867.7 | 3646.5 | 3207.3 | 2958.0 | 2910.5 |
| 22.5° | 4145.6 | 4125.4 | 3954.9 | 3952.9 | 4182.0 | 4432.5 | 4417.5 | 3850.1 | 3475.3 | 3436.3 |
| 25° | 4443.6 | 4349.9 | 4103.3 | 4043.4 | 4144.2 | 4530.8 | 4474.8 | 3981.6 | 3635.4 | 3540.4 |
| 27.5° | 4327.1 | 4094.8 | 3932.8 | 3919.1 | 3885.9 | 4251.0 | 4385.7 | 4034.9 | 3691.4 | 3599.0 |
| 30° | 4319.9 | 3978.3 | 3746.7 | 3774.0 | 3805.9 | 4154.7 | 4435.1 | 4202.2 | 3834.5 | 3735.6 |
| 32.5° | 4337.5 | 3994.6 | 3760.3 | 3765.5 | 3860.5 | 4169.0 | 4489.8 | 4384.4 | 4022.6 | 3923.7 |
| 35° | 4408.4 | 4087.0 | 3847.5 | 3835.2 | 3983.5 | 4262.7 | 4582.8 | 4670.7 | 4279.6 | 4167.0 |
| 37.5° | 4523.0 | 4271.1 | 4007.0 | 4003.7 | 4219.1 | 4431.9 | 4698.6 | 4959.6 | 4535.3 | 4414.3 |
| 40° | 4691.5 | 4486.5 | 4290.7 | 4273.1 | 4539.2 | 4707.1 | 4848.9 | 5267.3 | 4832.7 | 4677.2 |
| 42.5° | 4895.1 | 4744.8 | 4664.8 | 4734.4 | 4990.1 | 5016.2 | 5083.2 | 5551.7 | 5085.8 | 4904.9 |
| 45° | 5083.8 | 5076.7 | 5188.0 | 5372.8 | 5521.8 | 5365.6 | 5327.9 | 5742.3 | 5282.3 | 5085.8 |
| 47.5° | 5308.3 | 5502.2 | 5838.0 | 6108.7 | 6264.9 | 5772.3 | 5536.7 | 5866.6 | 5425.5 | 5244.6 |
| 50° | 5536.1 | 6011.7 | 6547.9 | 6925.3 | 6958.5 | 6214.1 | 5680.5 | 5983.8 | 5555.6 | 5367.5 |
| 52.5° | 5775.5 | 6418.4 | 7132.2 | 7570.8 | 7506.4 | 6598.7 | 5819.8 | 6063.1 | 5689.6 | 5524.4 |
| 55° | 5983.8 | 6667.6 | 7458.9 | 7879.9 | 7785.5 | 6832.9 | 5970.1 | 6149.0 | 5880.9 | 5741.7 |
| 57.5° | 6100.2 | 6688.5 | 7377.5 | 7745.2 | 7643.0 | 6787.4 | 6039.1 | 6212.8 | 6003.3 | 5894.0 |
| 58° | 6117.1 | 6660.5 | 7305.3 | 7667.1 | 7563.0 | 6749.0 | 6038.4 | 6210.2 | 6011.1 | 5901.1 |
| 60° | 6102.2 | 6478.9 | 7036.6 | 7358.7 | 7249.3 | 6508.2 | 6013.7 | 6161.4 | 5912.2 | 5819.1 |
| 62.5° | 5963.6 | 6164.0 | 6572.6 | 6806.9 | 6775.6 | 6132.1 | 5912.2 | 5977.2 | 5610.9 | 5521.1 |
| 65° | 5781.4 | 5734.5 | 5978.5 | 6144.5 | 6167.9 | 5850.4 | 5811.3 | 5579.0 | 5224.4 | 5097.5 |
| 67.5° | 5560.2 | 5247.8 | 5247.2 | 5341.5 | 5380.6 | 5417.0 | 5601.1 | 5146.3 | 4667.4 | 4533.4 |
| 70° | 5184.7 | 4497.6 | 4290.7 | 4401.9 | 4369.4 | 4677.2 | 5225.7 | 4538.6 | 3995.9 | 3839.1 |
| 72.5° | 4496.3 | 3569.0 | 3237.8 | 3381.0 | 3299.0 | 3667.9 | 4572.4 | 3735.0 | 3304.2 | 3111.6 |
| 75° | 3644.5 | 2669.8 | 2328.2 | 2459.6 | 2408.9 | 2782.4 | 3804.6 | 2712.7 | 2369.8 | 2296.3 |
| 77.5° | 2829.9 | 1934.5 | 1736.0 | 1717.8 | 1755.6 | 2070.5 | 2790.8 | 1831.7 | 1562.3 | 1512.2 |
| 80° | 1818.0 | 1384.7 | 1396.4 | 1373.0 | 1392.5 | 1305.3 | 1694.4 | 1168.6 | 1058.0 | 1017.7 |
| 82.5° | 1196.6 | 965.0 | 1150.4 | 1061.9 | 1008.6 | 877.8 | 1111.4 | 765.2 | 649.4 | 627.3 |
| 85° | 815.3 | 710.6 | 646.8 | 494.5 | 582.4 | 676.1 | 833.5 | 411.9 | 326.6 | 296.1 |
| 87.5° | 368.3 | 247.3 | 181.5 | 111.9 | 177.0 | 204.3 | 404.7 | 48.2 | 37.1 | 38.4 |
| 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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