

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: P458702

Luminaire Tested: **GALN-SA2C-735-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458702
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-SA2C-735-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1050mA 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: 11352 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

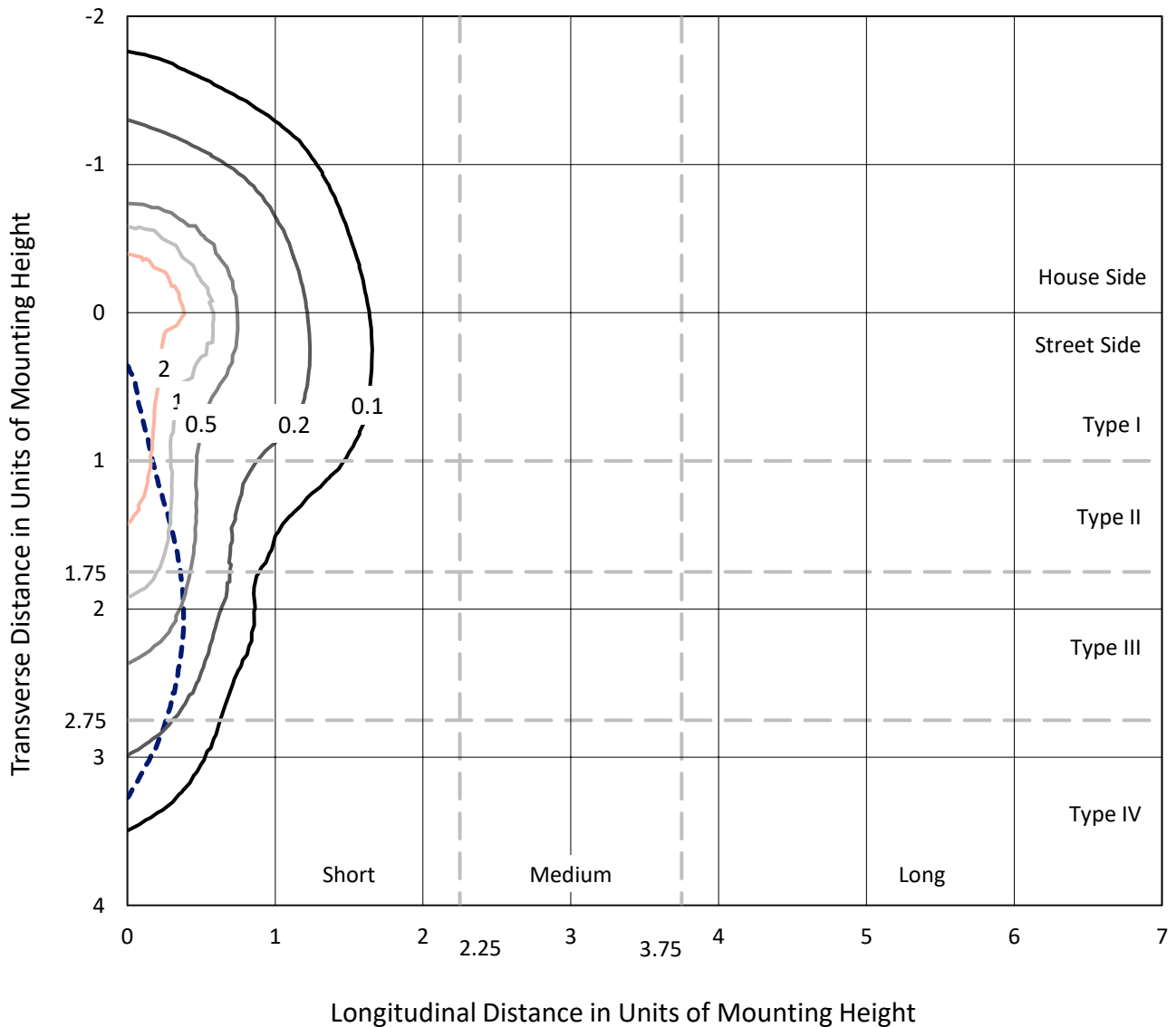
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458702
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Iso-Footcandle Lines of Horizontal Illumination

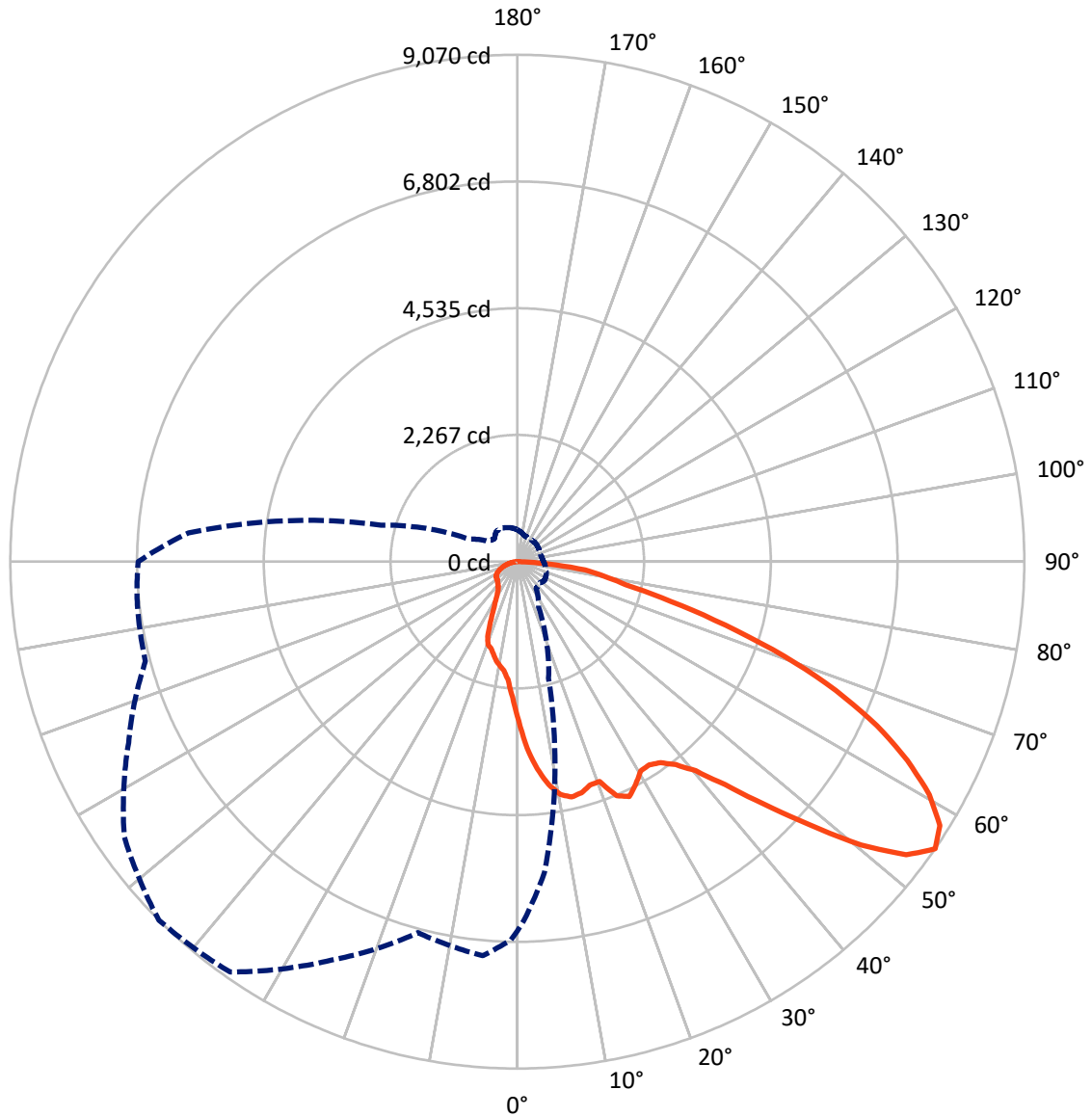
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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-SA2C-735-U-SLR

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2483.2 | 0.0 | 2483.2 |
| | % Fixture | 21.9 | 0.0 | 21.9 |
| Street Side | Lumens | 8868.8 | 0.0 | 8868.8 |
| | % Fixture | 78.1 | 0.0 | 78.1 |
| Total | Lumens | 11352.0 | 0.0 | 11352.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 241.5 | 2.1 |
| 10°-20° | 640.6 | 5.6 |
| 20°-30° | 1106.6 | 9.7 |
| 30°-40° | 1286.1 | 11.3 |
| 40°-50° | 1794.3 | 15.8 |
| 50°-60° | 2434.7 | 21.4 |
| 60°-70° | 2316.4 | 20.4 |
| 70°-80° | 1251.4 | 11.0 |
| 80°-90° | 280.4 | 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° | 11352.0 | 100.0 |
| 0°-180° | 11352.0 | 100.0 |

Coefficient of Utilization



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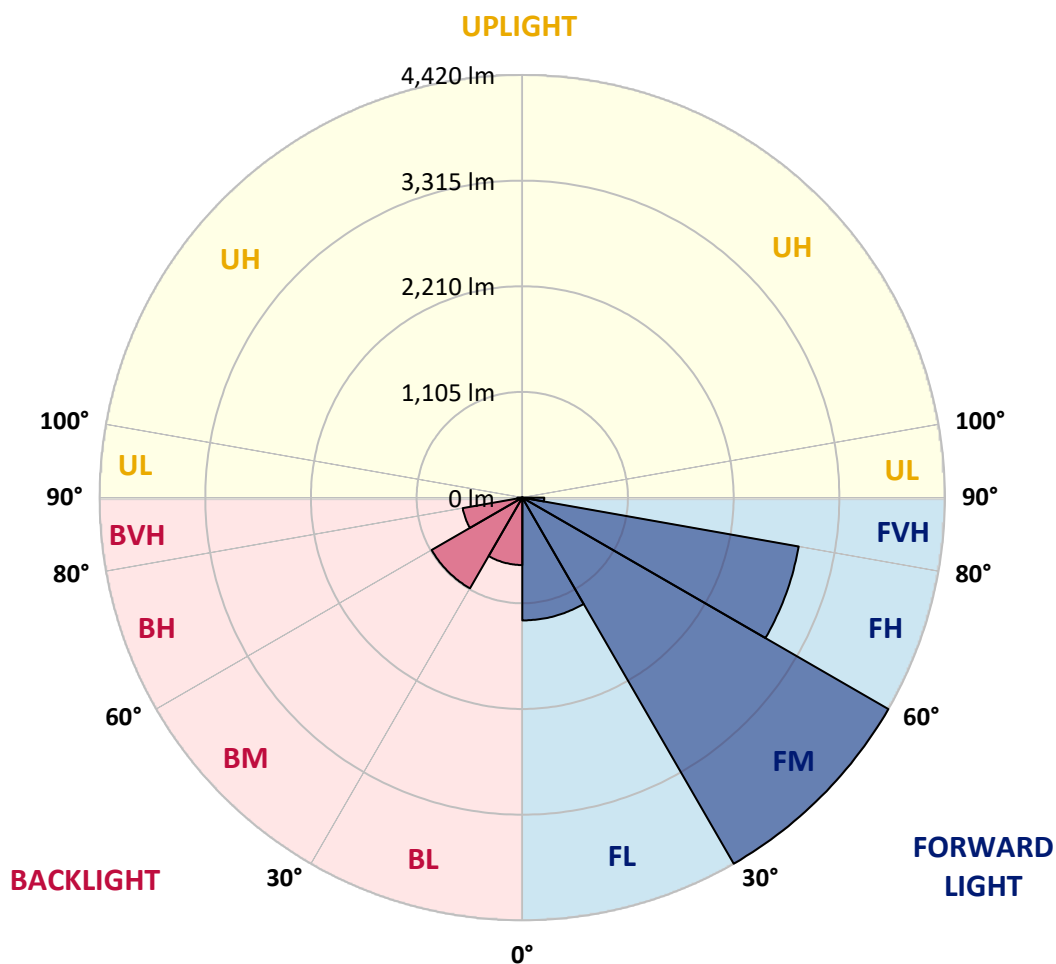
CATALOG NUMBER: GALN-SA2C-735-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1283.9 | 11.3 | | | |
| FM | (30°-60°) | 4420.2 | 38.9 | | | |
| FH | (60°-80°) | 2935.4 | 25.9 | | | G2/5000 |
| FVH | (80°-90°) | 229.2 | 2.0 | | | G3/500 |
| BL | (0°-30°) | 704.7 | 6.2 | B2/1000 | | |
| BM | (30°-60°) | 1094.9 | 9.6 | B2/2500 | | |
| BH | (60°-80°) | 632.3 | 5.6 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 51.2 | 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-G3

Type IV Short





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CATALOG NUMBER: GALN-SA2C-735-U-SLR

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2848.9 | 2848.9 | 2848.9 | 2848.9 | 2848.9 | 2848.9 | 2848.9 | 2848.9 | 2848.9 | 2848.9 | 2848.9 |
| 2.5° | 3165.0 | 3153.0 | 3119.3 | 3030.9 | 2941.8 | 2851.2 | 2781.5 | 2694.6 | 2604.0 | 2555.3 | 2493.2 |
| 5° | 3208.4 | 3194.9 | 3115.5 | 2916.3 | 2735.8 | 2546.3 | 2395.1 | 2262.5 | 2208.6 | 2129.2 | 2065.5 |
| 7.5° | 3106.5 | 3100.5 | 2981.5 | 2695.4 | 2448.2 | 2200.3 | 2028.8 | 1922.5 | 1825.9 | 1789.9 | 1797.4 |
| 10° | 3013.7 | 2989.7 | 2840.7 | 2467.0 | 2178.6 | 1977.2 | 1854.3 | 1750.2 | 1682.1 | 1664.1 | 1667.9 |
| 12.5° | 2936.5 | 2904.3 | 2728.3 | 2313.4 | 2061.0 | 1900.0 | 1743.5 | 1634.9 | 1572.7 | 1590.0 | 1648.4 |
| 15° | 2920.8 | 2877.4 | 2681.1 | 2261.0 | 1996.6 | 1789.2 | 1617.7 | 1492.6 | 1446.2 | 1483.6 | 1577.2 |
| 17.5° | 3022.7 | 2968.0 | 2762.0 | 2278.2 | 1935.2 | 1676.1 | 1465.6 | 1322.6 | 1283.7 | 1343.6 | 1465.6 |
| 20° | 3349.9 | 3269.1 | 3014.4 | 2377.8 | 1929.2 | 1619.9 | 1377.3 | 1233.5 | 1250.0 | 1363.8 | 1491.1 |
| 22.5° | 3955.1 | 3833.7 | 3456.3 | 2523.1 | 1960.7 | 1605.7 | 1359.3 | 1284.4 | 1375.0 | 1471.6 | 1555.5 |
| 25° | 4074.9 | 3979.8 | 3535.7 | 2556.1 | 1953.9 | 1596.0 | 1410.2 | 1447.7 | 1548.8 | 1596.7 | 1567.5 |
| 27.5° | 4142.3 | 4033.7 | 3530.4 | 2392.8 | 1747.2 | 1447.7 | 1348.1 | 1410.2 | 1435.7 | 1389.3 | 1309.9 |
| 30° | 4299.6 | 4186.5 | 3619.6 | 2221.3 | 1438.7 | 1074.0 | 941.4 | 915.9 | 933.2 | 942.1 | 913.7 |
| 32.5° | 4516.0 | 4404.4 | 3787.3 | 2109.0 | 1244.0 | 888.2 | 757.9 | 722.0 | 713.7 | 704.0 | 692.8 |
| 35° | 4796.1 | 4624.6 | 3952.1 | 2037.1 | 1163.8 | 821.6 | 701.7 | 674.0 | 662.8 | 649.3 | 637.3 |
| 37.5° | 5080.7 | 4901.0 | 4160.3 | 1961.4 | 1110.7 | 775.1 | 664.3 | 651.6 | 632.1 | 617.9 | 600.6 |
| 40° | 5383.3 | 5181.8 | 4349.8 | 1895.5 | 1059.0 | 745.2 | 637.3 | 635.8 | 610.4 | 593.9 | 573.7 |
| 42.5° | 5645.4 | 5437.9 | 4519.0 | 1855.1 | 1019.3 | 713.7 | 620.9 | 625.4 | 599.1 | 574.4 | 548.2 |
| 45° | 5853.6 | 5649.9 | 4675.5 | 1855.1 | 987.1 | 682.3 | 617.9 | 614.9 | 588.7 | 557.9 | 528.0 |
| 47.5° | 6036.3 | 5825.9 | 4828.3 | 1902.3 | 966.9 | 656.1 | 601.4 | 606.6 | 579.7 | 540.7 | 511.5 |
| 50° | 6177.9 | 5992.1 | 5034.3 | 1975.7 | 946.6 | 635.1 | 580.4 | 608.9 | 572.2 | 531.7 | 498.0 |
| 52.5° | 6358.4 | 6192.1 | 5282.2 | 2076.0 | 929.4 | 611.9 | 561.7 | 608.9 | 571.4 | 532.5 | 495.8 |
| 55° | 6608.5 | 6433.3 | 5581.0 | 2159.1 | 901.7 | 590.2 | 545.2 | 591.7 | 569.2 | 528.7 | 489.8 |
| 57.5° | 6783.8 | 6652.7 | 5792.2 | 2214.6 | 862.0 | 562.4 | 530.2 | 575.2 | 559.4 | 514.5 | 471.8 |
| 58° | 6792.0 | 6663.9 | 5822.9 | 2227.3 | 852.3 | 557.2 | 526.5 | 567.7 | 555.0 | 508.5 | 465.8 |
| 60° | 6697.6 | 6587.5 | 5828.9 | 2209.3 | 796.9 | 531.0 | 507.0 | 537.0 | 531.0 | 473.3 | 433.6 |
| 62.5° | 6354.6 | 6237.0 | 5587.0 | 2063.3 | 723.5 | 498.8 | 477.1 | 495.8 | 482.3 | 423.9 | 387.2 |
| 65° | 5867.1 | 5650.6 | 5089.7 | 1834.1 | 671.0 | 464.3 | 436.6 | 438.1 | 423.9 | 382.0 | 349.7 |
| 67.5° | 5217.8 | 4975.9 | 4309.3 | 1545.8 | 631.3 | 426.1 | 388.7 | 384.9 | 367.7 | 340.8 | 314.5 |
| 70° | 4418.7 | 4253.1 | 3502.0 | 1257.4 | 587.2 | 384.2 | 334.8 | 332.5 | 322.0 | 301.8 | 278.6 |
| 72.5° | 3581.4 | 3370.9 | 2827.9 | 1006.6 | 533.2 | 343.8 | 284.6 | 289.1 | 275.6 | 261.4 | 240.4 |
| 75° | 2643.0 | 2505.2 | 2186.1 | 807.3 | 460.6 | 299.6 | 237.4 | 238.9 | 232.9 | 217.9 | 201.5 |
| 77.5° | 1740.5 | 1699.3 | 1563.8 | 530.2 | 354.2 | 238.2 | 194.0 | 195.5 | 191.0 | 177.5 | 160.3 |
| 80° | 1171.3 | 1143.6 | 1059.7 | 341.5 | 236.7 | 172.3 | 149.8 | 151.3 | 150.5 | 136.3 | 113.1 |
| 82.5° | 722.0 | 710.0 | 683.0 | 230.7 | 164.0 | 123.6 | 98.9 | 103.4 | 111.6 | 95.9 | 77.1 |
| 85° | 340.8 | 341.5 | 412.7 | 125.8 | 96.6 | 79.4 | 53.9 | 57.7 | 57.7 | 57.7 | 43.4 |
| 87.5° | 44.2 | 46.4 | 56.9 | 53.2 | 35.2 | 30.0 | 19.5 | 16.5 | 14.2 | 18.7 | 13.5 |
| 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° | 2848.9 | 2848.9 | 2848.9 | 2848.9 | 2848.9 | 2848.9 | 2848.9 | 2848.9 | 2848.9 | 2848.9 | 2848.9 |
| 2.5° | 2471.5 | 2456.5 | 2424.3 | 2416.8 | 2412.3 | 2425.0 | 2391.3 | 2400.3 | 2385.3 | 2427.3 | 2420.5 |
| 5° | 2069.3 | 2070.8 | 2097.0 | 2114.2 | 2120.2 | 2114.2 | 2091.7 | 2052.8 | 2022.8 | 2010.9 | 2013.9 |
| 7.5° | 1783.2 | 1809.4 | 1854.3 | 1904.5 | 1950.2 | 1963.7 | 1950.9 | 1876.8 | 1795.9 | 1745.0 | 1728.5 |
| 10° | 1688.1 | 1723.3 | 1775.0 | 1814.6 | 1855.1 | 1887.3 | 1894.0 | 1836.4 | 1740.5 | 1619.9 | 1572.7 |
| 12.5° | 1693.3 | 1741.2 | 1790.7 | 1803.4 | 1799.7 | 1812.4 | 1806.4 | 1796.7 | 1733.8 | 1580.2 | 1501.6 |
| 15° | 1643.9 | 1700.8 | 1735.3 | 1728.5 | 1716.5 | 1705.3 | 1689.6 | 1664.9 | 1642.4 | 1534.5 | 1447.7 |
| 17.5° | 1530.1 | 1588.5 | 1616.9 | 1619.2 | 1619.2 | 1616.2 | 1578.0 | 1569.0 | 1566.0 | 1513.6 | 1460.4 |
| 20° | 1551.0 | 1583.2 | 1570.5 | 1549.5 | 1555.5 | 1575.7 | 1553.3 | 1548.8 | 1566.0 | 1589.2 | 1579.5 |
| 22.5° | 1563.0 | 1551.8 | 1455.9 | 1363.0 | 1342.1 | 1405.0 | 1417.7 | 1467.9 | 1537.5 | 1621.4 | 1676.1 |
| 25° | 1488.9 | 1398.2 | 1226.7 | 1121.9 | 1062.7 | 1121.1 | 1197.5 | 1290.4 | 1394.5 | 1502.3 | 1566.0 |
| 27.5° | 1244.7 | 1175.8 | 1053.0 | 958.6 | 906.9 | 915.9 | 981.1 | 1065.7 | 1162.3 | 1235.0 | 1281.4 |
| 30° | 937.7 | 906.9 | 843.3 | 811.1 | 779.6 | 772.1 | 799.9 | 832.1 | 874.7 | 883.7 | 895.7 |
| 32.5° | 690.5 | 686.0 | 689.8 | 679.3 | 673.3 | 672.5 | 664.3 | 671.8 | 676.3 | 681.5 | 671.0 |
| 35° | 624.6 | 618.6 | 608.1 | 605.1 | 601.4 | 602.9 | 599.1 | 595.4 | 598.4 | 602.9 | 605.9 |
| 37.5° | 590.9 | 581.9 | 566.9 | 561.7 | 561.7 | 563.9 | 557.9 | 556.5 | 561.7 | 575.9 | 583.4 |
| 40° | 564.7 | 554.2 | 537.0 | 530.2 | 534.7 | 540.7 | 532.5 | 529.5 | 542.2 | 557.2 | 569.2 |
| 42.5° | 540.0 | 531.7 | 515.3 | 507.8 | 511.5 | 522.7 | 510.8 | 508.5 | 525.0 | 541.5 | 555.7 |
| 45° | 519.0 | 510.8 | 495.8 | 492.0 | 493.5 | 504.0 | 495.8 | 495.8 | 511.5 | 529.5 | 542.2 |
| 47.5° | 502.5 | 492.0 | 482.3 | 479.3 | 480.8 | 486.8 | 485.3 | 485.3 | 500.3 | 519.0 | 531.7 |
| 50° | 486.1 | 477.1 | 464.3 | 465.8 | 469.6 | 477.8 | 477.1 | 479.3 | 494.3 | 517.5 | 531.0 |
| 52.5° | 478.6 | 465.1 | 450.9 | 452.4 | 463.6 | 473.3 | 470.3 | 472.6 | 489.8 | 533.2 | 552.7 |
| 55° | 470.3 | 452.4 | 435.9 | 438.1 | 450.9 | 465.1 | 461.3 | 464.3 | 484.6 | 543.7 | 570.7 |
| 57.5° | 454.6 | 433.6 | 415.7 | 417.2 | 435.9 | 450.9 | 444.9 | 448.6 | 472.6 | 532.5 | 560.9 |
| 58° | 447.9 | 429.9 | 412.7 | 413.4 | 431.4 | 447.9 | 441.1 | 444.1 | 468.8 | 529.5 | 556.5 |
| 60° | 419.4 | 408.9 | 393.9 | 394.7 | 411.9 | 426.1 | 422.4 | 425.4 | 449.4 | 507.8 | 528.0 |
| 62.5° | 380.5 | 374.5 | 370.7 | 370.7 | 381.2 | 394.7 | 398.4 | 402.2 | 423.9 | 459.1 | 477.1 |
| 65° | 338.5 | 338.5 | 339.3 | 339.3 | 346.0 | 363.2 | 365.5 | 375.2 | 395.4 | 412.7 | 426.1 |
| 67.5° | 310.1 | 308.6 | 310.1 | 306.3 | 309.3 | 319.8 | 331.0 | 340.0 | 361.0 | 373.0 | 377.5 |
| 70° | 273.4 | 272.6 | 273.4 | 268.1 | 271.9 | 280.8 | 288.3 | 303.3 | 325.0 | 334.0 | 336.3 |
| 72.5° | 237.4 | 237.4 | 238.9 | 235.2 | 235.2 | 244.9 | 250.1 | 266.6 | 286.8 | 292.1 | 292.8 |
| 75° | 200.0 | 202.2 | 202.2 | 197.0 | 198.5 | 204.5 | 211.2 | 224.7 | 243.4 | 247.1 | 247.1 |
| 77.5° | 158.8 | 167.0 | 167.0 | 161.8 | 164.0 | 164.8 | 173.8 | 180.5 | 194.7 | 196.2 | 190.2 |
| 80° | 115.3 | 123.6 | 130.3 | 125.8 | 129.6 | 125.1 | 130.3 | 134.8 | 149.0 | 142.3 | 132.6 |
| 82.5° | 82.4 | 88.4 | 93.6 | 94.4 | 90.6 | 82.4 | 89.1 | 89.9 | 96.6 | 87.6 | 82.4 |
| 85° | 45.7 | 50.9 | 57.7 | 54.7 | 48.7 | 43.4 | 45.7 | 47.2 | 46.4 | 44.2 | 41.2 |
| 87.5° | 12.0 | 12.7 | 14.2 | 10.5 | 9.7 | 8.2 | 11.2 | 11.2 | 12.7 | 13.5 | 12.7 |
| 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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 CATALOG NUMBER: GALN-SA2C-735-U-SLR

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2848.9 | 2848.9 | 2848.9 | 2848.9 | 2848.9 | 2848.9 | 2848.9 | 2848.9 | 2848.9 | 2848.9 | 2848.9 |
| 2.5° | 2425.8 | 2458.7 | 2529.9 | 2583.8 | 2649.7 | 2729.8 | 2824.2 | 2919.3 | 3021.9 | 3054.1 | 3099.0 |
| 5° | 2007.1 | 2089.5 | 2123.9 | 2222.1 | 2319.4 | 2465.5 | 2621.2 | 2801.7 | 2999.4 | 3094.6 | 3185.9 |
| 7.5° | 1715.0 | 1759.2 | 1795.2 | 1867.1 | 1983.9 | 2161.4 | 2356.9 | 2582.3 | 2862.4 | 3000.9 | 3135.0 |
| 10° | 1557.8 | 1562.3 | 1606.4 | 1695.6 | 1797.4 | 1953.9 | 2138.9 | 2391.3 | 2703.6 | 2872.1 | 3029.4 |
| 12.5° | 1453.7 | 1434.2 | 1482.1 | 1575.0 | 1690.3 | 1834.9 | 2004.9 | 2245.3 | 2589.0 | 2762.0 | 2952.3 |
| 15° | 1362.3 | 1331.6 | 1367.5 | 1462.6 | 1576.5 | 1746.5 | 1929.2 | 2183.9 | 2544.1 | 2745.6 | 2956.8 |
| 17.5° | 1364.5 | 1279.9 | 1292.6 | 1372.8 | 1485.9 | 1658.9 | 1880.5 | 2181.6 | 2612.2 | 2844.4 | 3094.6 |
| 20° | 1533.0 | 1397.5 | 1339.8 | 1354.8 | 1464.1 | 1652.9 | 1903.0 | 2286.5 | 2836.2 | 3174.7 | 3442.1 |
| 22.5° | 1698.6 | 1616.9 | 1524.1 | 1493.4 | 1553.3 | 1751.0 | 2046.1 | 2534.4 | 3323.0 | 3833.0 | 4316.1 |
| 25° | 1640.9 | 1710.5 | 1687.3 | 1643.9 | 1657.4 | 1821.4 | 2143.4 | 2738.1 | 3701.2 | 4275.6 | 4729.5 |
| 27.5° | 1312.9 | 1439.4 | 1464.9 | 1464.1 | 1469.4 | 1604.2 | 1927.7 | 2601.0 | 3748.4 | 4360.2 | 4793.9 |
| 30° | 922.7 | 933.9 | 947.4 | 973.6 | 997.6 | 1118.1 | 1508.3 | 2283.5 | 3727.4 | 4398.4 | 4832.8 |
| 32.5° | 665.8 | 680.8 | 699.5 | 735.4 | 792.4 | 945.9 | 1319.6 | 2182.4 | 3838.2 | 4556.5 | 4946.6 |
| 35° | 608.9 | 626.1 | 644.1 | 685.3 | 739.2 | 881.5 | 1244.7 | 2140.4 | 4020.2 | 4812.6 | 5151.1 |
| 37.5° | 590.9 | 610.4 | 626.1 | 656.1 | 699.5 | 835.1 | 1176.6 | 2112.0 | 4206.7 | 5083.7 | 5425.2 |
| 40° | 578.2 | 600.6 | 613.4 | 637.3 | 667.3 | 792.4 | 1115.9 | 2089.5 | 4387.2 | 5331.6 | 5645.4 |
| 42.5° | 566.9 | 590.2 | 606.6 | 623.9 | 648.6 | 754.2 | 1062.0 | 2067.0 | 4543.7 | 5572.0 | 5864.8 |
| 45° | 553.5 | 582.7 | 603.6 | 617.1 | 638.8 | 722.0 | 1020.8 | 2049.1 | 4722.0 | 5785.4 | 6086.5 |
| 47.5° | 542.2 | 574.4 | 600.6 | 616.4 | 624.6 | 699.5 | 987.8 | 2073.8 | 4936.2 | 6008.6 | 6292.5 |
| 50° | 543.0 | 573.7 | 606.6 | 631.3 | 609.6 | 680.8 | 967.6 | 2171.9 | 5214.8 | 6273.7 | 6455.0 |
| 52.5° | 566.9 | 604.4 | 630.6 | 636.6 | 588.7 | 658.3 | 957.1 | 2343.4 | 5544.3 | 6508.2 | 6619.0 |
| 55° | 593.9 | 632.8 | 661.3 | 657.6 | 577.4 | 629.8 | 954.9 | 2526.1 | 5905.3 | 6781.5 | 6832.4 |
| 57.5° | 584.2 | 641.1 | 684.5 | 665.0 | 578.2 | 602.1 | 945.1 | 2673.7 | 6207.1 | 6986.0 | 7043.6 |
| 58° | 581.2 | 638.1 | 687.5 | 663.5 | 575.9 | 593.9 | 942.9 | 2686.4 | 6249.0 | 7000.2 | 7073.6 |
| 60° | 552.0 | 611.9 | 685.3 | 652.3 | 563.2 | 571.4 | 918.2 | 2727.6 | 6237.8 | 6926.8 | 7091.6 |
| 62.5° | 498.8 | 548.2 | 633.6 | 597.6 | 524.2 | 541.5 | 862.8 | 2676.7 | 5933.7 | 6573.3 | 6828.7 |
| 65° | 438.9 | 475.6 | 532.5 | 525.7 | 468.8 | 510.8 | 787.1 | 2475.2 | 5324.9 | 5999.6 | 6268.5 |
| 67.5° | 393.9 | 423.9 | 459.8 | 450.1 | 421.6 | 469.6 | 705.5 | 2134.4 | 4641.8 | 5310.6 | 5649.1 |
| 70° | 348.2 | 371.5 | 389.4 | 382.7 | 373.7 | 429.1 | 632.8 | 1732.3 | 3987.3 | 4656.1 | 4984.1 |
| 72.5° | 301.8 | 323.5 | 338.5 | 328.8 | 323.5 | 386.4 | 573.7 | 1344.3 | 3149.2 | 3841.2 | 4262.9 |
| 75° | 252.4 | 274.1 | 284.6 | 273.4 | 270.4 | 340.8 | 486.1 | 1004.3 | 2362.9 | 2961.2 | 3325.2 |
| 77.5° | 195.5 | 218.7 | 232.2 | 228.4 | 229.9 | 280.1 | 392.4 | 687.5 | 1689.6 | 2018.4 | 2401.8 |
| 80° | 137.1 | 162.5 | 171.5 | 167.8 | 178.2 | 213.4 | 277.1 | 436.6 | 1165.3 | 1309.9 | 1580.2 |
| 82.5° | 84.6 | 108.6 | 110.1 | 113.8 | 121.3 | 158.0 | 208.9 | 265.9 | 731.7 | 756.4 | 952.6 |
| 85° | 42.7 | 51.7 | 55.4 | 61.4 | 68.2 | 96.6 | 119.1 | 164.8 | 471.1 | 356.5 | 532.5 |
| 87.5° | 14.2 | 15.0 | 18.0 | 22.5 | 27.7 | 39.7 | 50.9 | 67.4 | 116.8 | 64.4 | 164.8 |
| 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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| 5° | 3377.6 | 3526.7 | 3647.3 | 3724.4 | 3691.4 | 3612.1 | 3481.0 | 3314.0 | 3224.1 | 3208.4 |
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| 20° | 3856.2 | 3984.3 | 4080.1 | 4197.7 | 4379.7 | 4451.6 | 4197.0 | 3691.4 | 3404.6 | 3349.9 |
| 22.5° | 4771.4 | 4748.2 | 4552.0 | 4549.7 | 4813.3 | 5101.7 | 5084.4 | 4431.4 | 4000.0 | 3955.1 |
| 25° | 5114.4 | 5006.6 | 4722.7 | 4653.8 | 4769.9 | 5214.8 | 5150.4 | 4582.7 | 4184.2 | 4074.9 |
| 27.5° | 4980.3 | 4713.0 | 4526.5 | 4510.8 | 4472.6 | 4892.7 | 5047.8 | 4644.1 | 4248.6 | 4142.3 |
| 30° | 4972.1 | 4578.9 | 4312.3 | 4343.8 | 4380.5 | 4781.9 | 5104.7 | 4836.6 | 4413.4 | 4299.6 |
| 32.5° | 4992.3 | 4597.6 | 4328.0 | 4334.0 | 4443.4 | 4798.4 | 5167.6 | 5046.3 | 4629.9 | 4516.0 |
| 35° | 5074.0 | 4704.0 | 4428.4 | 4414.2 | 4584.9 | 4906.2 | 5274.7 | 5375.8 | 4925.7 | 4796.1 |
| 37.5° | 5205.8 | 4915.9 | 4611.9 | 4608.1 | 4856.0 | 5100.9 | 5408.0 | 5708.3 | 5220.0 | 5080.7 |
| 40° | 5399.7 | 5163.8 | 4938.4 | 4918.2 | 5224.5 | 5417.7 | 5581.0 | 6062.5 | 5562.3 | 5383.3 |
| 42.5° | 5634.2 | 5461.2 | 5369.0 | 5449.2 | 5743.5 | 5773.5 | 5850.6 | 6389.8 | 5853.6 | 5645.4 |
| 45° | 5851.3 | 5843.1 | 5971.2 | 6183.9 | 6355.4 | 6175.6 | 6132.2 | 6609.3 | 6079.8 | 5853.6 |
| 47.5° | 6109.7 | 6332.9 | 6719.4 | 7030.9 | 7210.6 | 6643.7 | 6372.6 | 6752.3 | 6244.5 | 6036.3 |
| 50° | 6371.8 | 6919.3 | 7536.4 | 7970.8 | 8009.0 | 7152.2 | 6538.1 | 6887.1 | 6394.3 | 6177.9 |
| 52.5° | 6647.5 | 7387.4 | 8209.0 | 8713.7 | 8639.6 | 7594.8 | 6698.4 | 6978.5 | 6548.6 | 6358.4 |
| 55° | 6887.1 | 7674.2 | 8584.9 | 9069.5 | 8960.9 | 7864.5 | 6871.4 | 7077.3 | 6768.8 | 6608.5 |
| 57.5° | 7021.2 | 7698.2 | 8491.3 | 8914.4 | 8796.9 | 7812.0 | 6950.8 | 7150.7 | 6909.6 | 6783.8 |
| 58° | 7040.6 | 7666.0 | 8408.2 | 8824.6 | 8704.7 | 7767.8 | 6950.0 | 7147.7 | 6918.6 | 6792.0 |
| 60° | 7023.4 | 7457.0 | 8098.9 | 8469.6 | 8343.8 | 7490.7 | 6921.6 | 7091.6 | 6804.7 | 6697.6 |
| 62.5° | 6863.9 | 7094.6 | 7564.9 | 7834.5 | 7798.6 | 7057.9 | 6804.7 | 6879.6 | 6458.0 | 6354.6 |
| 65° | 6654.2 | 6600.3 | 6881.1 | 7072.1 | 7099.1 | 6733.6 | 6688.6 | 6421.3 | 6013.1 | 5867.1 |
| 67.5° | 6399.6 | 6040.1 | 6039.3 | 6147.9 | 6192.9 | 6234.8 | 6446.7 | 5923.2 | 5372.0 | 5217.8 |
| 70° | 5967.4 | 5176.6 | 4938.4 | 5066.5 | 5029.0 | 5383.3 | 6014.6 | 5223.7 | 4599.1 | 4418.7 |
| 72.5° | 5175.1 | 4107.9 | 3726.6 | 3891.4 | 3797.0 | 4221.7 | 5262.7 | 4298.8 | 3803.0 | 3581.4 |
| 75° | 4194.7 | 3072.8 | 2679.7 | 2830.9 | 2772.5 | 3202.4 | 4379.0 | 3122.3 | 2727.6 | 2643.0 |
| 77.5° | 3257.1 | 2226.6 | 1998.1 | 1977.2 | 2020.6 | 2383.1 | 3212.1 | 2108.2 | 1798.2 | 1740.5 |
| 80° | 2092.5 | 1593.7 | 1607.2 | 1580.2 | 1602.7 | 1502.3 | 1950.2 | 1345.1 | 1217.8 | 1171.3 |
| 82.5° | 1377.3 | 1110.7 | 1324.1 | 1222.2 | 1160.8 | 1010.3 | 1279.2 | 880.7 | 747.4 | 722.0 |
| 85° | 938.4 | 817.8 | 744.4 | 569.2 | 670.3 | 778.1 | 959.4 | 474.1 | 376.0 | 340.8 |
| 87.5° | 423.9 | 284.6 | 208.9 | 128.8 | 203.7 | 235.2 | 465.8 | 55.4 | 42.7 | 44.2 |
| 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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