

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: P646791

Luminaire Tested: **GALN-SA2C-835-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646791
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-835-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 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: 9542.4 lumens
Efficiency: N/A
Efficacy: 88.4 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): 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

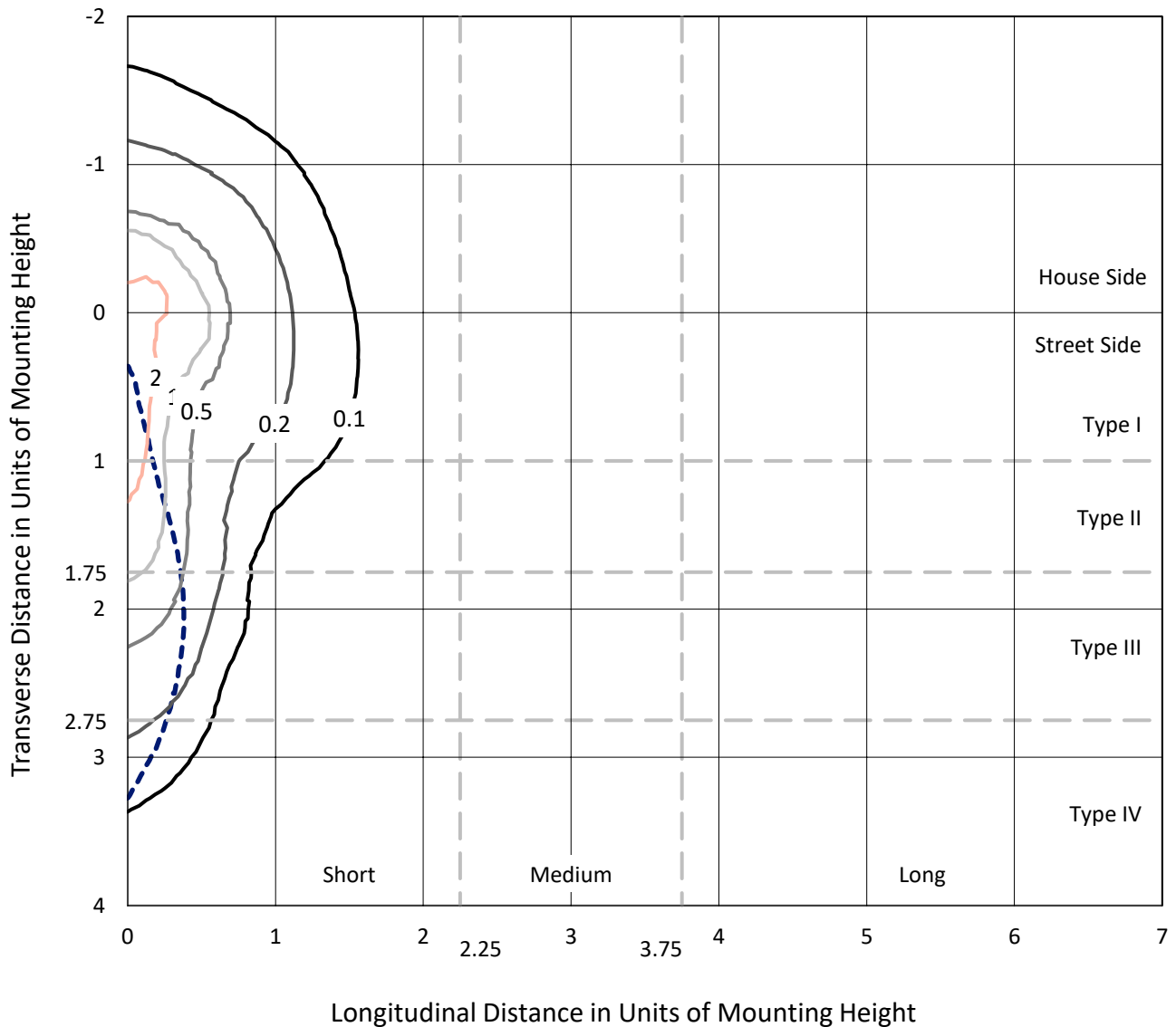




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Iso-Footcandle Lines of Horizontal Illumination

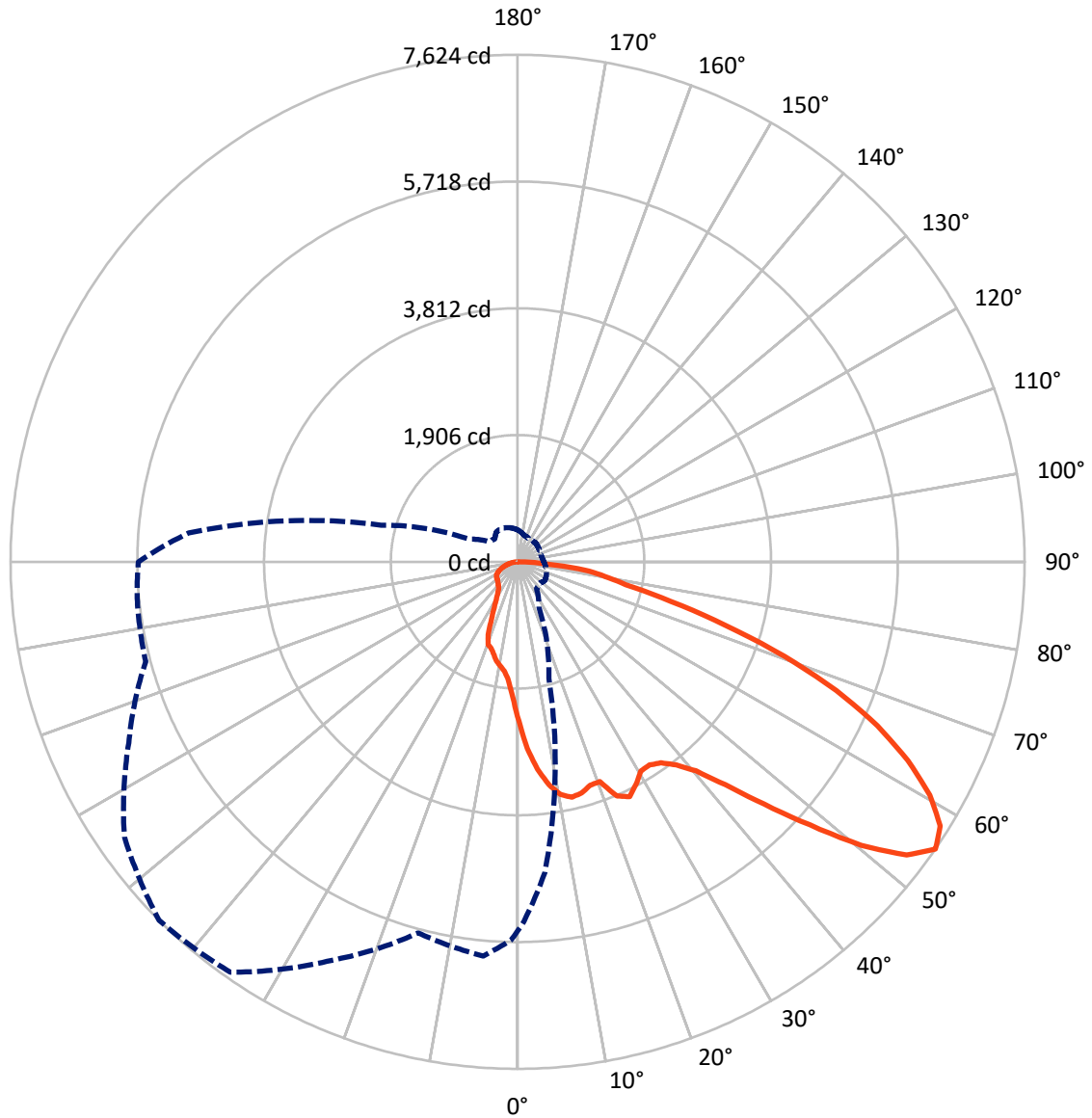
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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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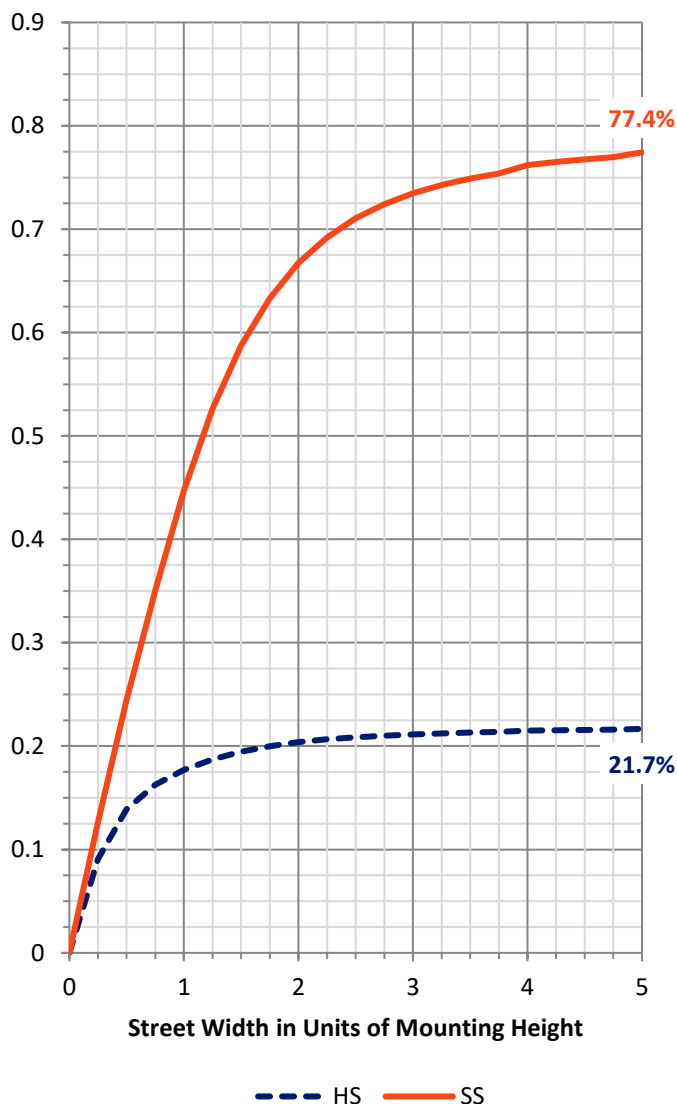
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2087.4 | 0.0 | 2087.4 |
| | % Fixture | 21.9 | 0.0 | 21.9 |
| Street Side | Lumens | 7455.1 | 0.0 | 7455.1 |
| | % Fixture | 78.1 | 0.0 | 78.1 |
| Total | Lumens | 9542.4 | 0.0 | 9542.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 203.0 | 2.1 |
| 10°-20° | 538.5 | 5.6 |
| 20°-30° | 930.2 | 9.7 |
| 30°-40° | 1081.1 | 11.3 |
| 40°-50° | 1508.3 | 15.8 |
| 50°-60° | 2046.6 | 21.4 |
| 60°-70° | 1947.1 | 20.4 |
| 70°-80° | 1051.9 | 11.0 |
| 80°-90° | 235.7 | 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° | 9542.4 | 100.0 |
| 0°-180° | 9542.4 | 100.0 |

Coefficient of Utilization

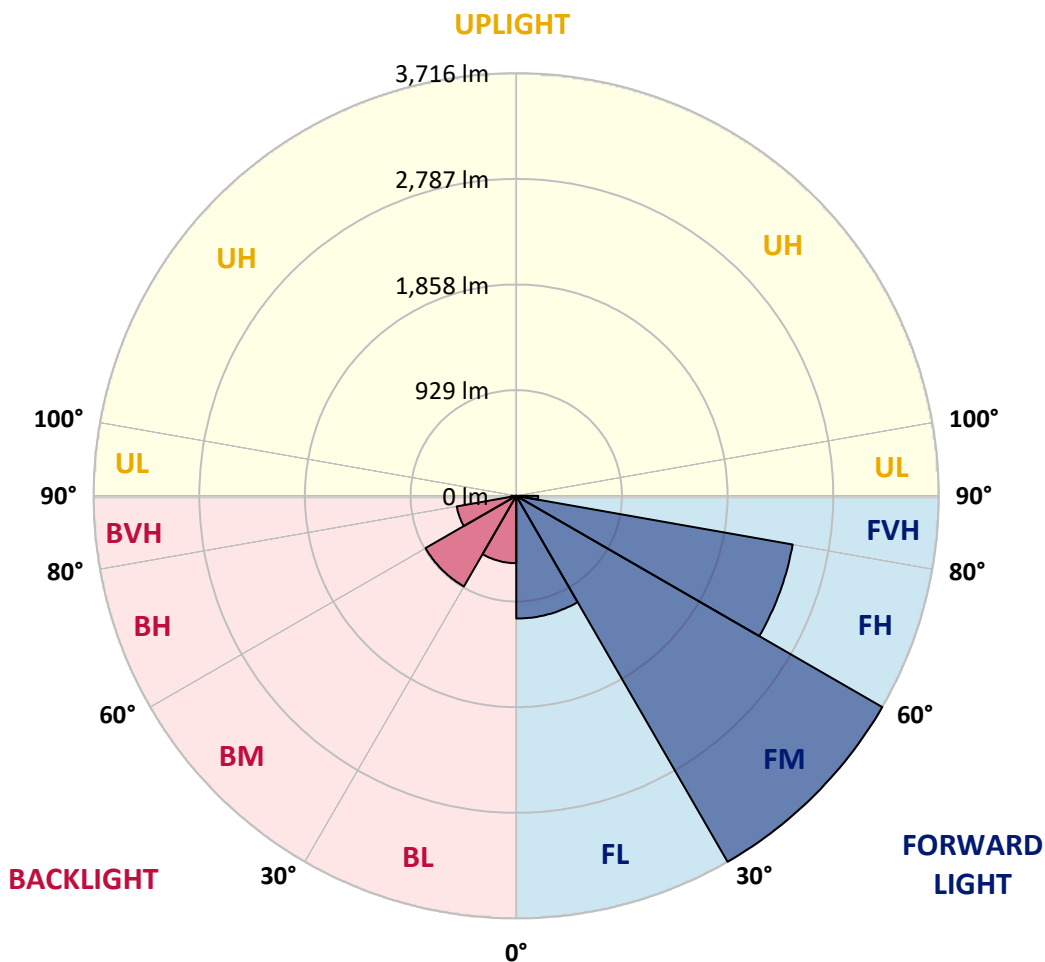


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1079.3 | 11.3 | | | |
| FM (30°-60°) | 3715.6 | 38.9 | | | |
| FH (60°-80°) | 2467.5 | 25.9 | | | G2/5000 |
| FVH (80°-90°) | 192.7 | 2.0 | | | G2/225 |
| BL (0°-30°) | 592.4 | 6.2 | B2/1000 | | |
| BM (30°-60°) | 920.4 | 9.6 | B1/1000 | | |
| BH (60°-80°) | 531.5 | 5.6 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 43.1 | 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





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2394.8 | 2394.8 | 2394.8 | 2394.8 | 2394.8 | 2394.8 | 2394.8 | 2394.8 | 2394.8 | 2394.8 | 2394.8 |
| 2.5° | 2660.5 | 2650.4 | 2622.0 | 2547.7 | 2472.9 | 2396.7 | 2338.1 | 2265.1 | 2188.9 | 2148.0 | 2095.8 |
| 5° | 2697.0 | 2685.6 | 2618.9 | 2451.4 | 2299.7 | 2140.4 | 2013.2 | 1901.8 | 1856.5 | 1789.8 | 1736.3 |
| 7.5° | 2611.3 | 2606.3 | 2506.2 | 2265.7 | 2058.0 | 1849.6 | 1705.5 | 1616.0 | 1534.8 | 1504.6 | 1510.9 |
| 10° | 2533.2 | 2513.1 | 2387.8 | 2073.7 | 1831.4 | 1662.0 | 1558.7 | 1471.3 | 1413.9 | 1398.8 | 1402.0 |
| 12.5° | 2468.4 | 2441.4 | 2293.4 | 1944.7 | 1732.5 | 1597.2 | 1465.5 | 1374.3 | 1322.0 | 1336.5 | 1385.6 |
| 15° | 2455.2 | 2418.7 | 2253.8 | 1900.6 | 1678.4 | 1504.0 | 1359.8 | 1254.7 | 1215.6 | 1247.1 | 1325.8 |
| 17.5° | 2540.8 | 2494.9 | 2321.8 | 1915.1 | 1626.8 | 1408.9 | 1232.1 | 1111.8 | 1079.1 | 1129.4 | 1232.1 |
| 20° | 2815.9 | 2747.9 | 2533.9 | 1998.8 | 1621.7 | 1361.7 | 1157.7 | 1036.8 | 1050.7 | 1146.4 | 1253.4 |
| 22.5° | 3324.6 | 3222.6 | 2905.3 | 2120.9 | 1648.1 | 1349.7 | 1142.6 | 1079.7 | 1155.9 | 1237.1 | 1307.5 |
| 25° | 3425.3 | 3345.4 | 2972.0 | 2148.6 | 1642.5 | 1341.5 | 1185.5 | 1216.9 | 1301.9 | 1342.2 | 1317.6 |
| 27.5° | 3482.0 | 3390.7 | 2967.6 | 2011.4 | 1468.8 | 1216.9 | 1133.2 | 1185.5 | 1206.8 | 1167.8 | 1101.1 |
| 30° | 3614.2 | 3519.1 | 3042.6 | 1867.2 | 1209.3 | 902.8 | 791.3 | 769.9 | 784.4 | 791.9 | 768.0 |
| 32.5° | 3796.1 | 3702.3 | 3183.6 | 1772.8 | 1045.7 | 746.7 | 637.1 | 606.9 | 599.9 | 591.8 | 582.3 |
| 35° | 4031.6 | 3887.4 | 3322.1 | 1712.3 | 978.3 | 690.6 | 589.9 | 566.6 | 557.2 | 545.8 | 535.7 |
| 37.5° | 4270.8 | 4119.8 | 3497.1 | 1648.8 | 933.6 | 651.6 | 558.4 | 547.7 | 531.3 | 519.4 | 504.9 |
| 40° | 4525.1 | 4355.8 | 3656.4 | 1593.4 | 890.2 | 626.4 | 535.7 | 534.5 | 513.1 | 499.2 | 482.2 |
| 42.5° | 4745.4 | 4571.1 | 3798.6 | 1559.3 | 856.8 | 599.9 | 521.9 | 525.6 | 503.6 | 482.9 | 460.8 |
| 45° | 4920.5 | 4749.3 | 3930.2 | 1559.3 | 829.7 | 573.5 | 519.4 | 516.9 | 494.9 | 469.0 | 443.8 |
| 47.5° | 5074.1 | 4897.2 | 4058.7 | 1599.0 | 812.8 | 551.5 | 505.5 | 509.9 | 487.3 | 454.5 | 429.9 |
| 50° | 5193.1 | 5037.0 | 4231.8 | 1660.7 | 795.8 | 533.8 | 487.9 | 511.8 | 481.0 | 446.9 | 418.7 |
| 52.5° | 5344.8 | 5205.1 | 4440.2 | 1745.1 | 781.3 | 514.4 | 472.1 | 511.8 | 480.4 | 447.6 | 416.8 |
| 55° | 5555.1 | 5407.8 | 4691.3 | 1815.0 | 757.9 | 496.1 | 458.3 | 497.4 | 478.4 | 444.4 | 411.7 |
| 57.5° | 5702.4 | 5592.2 | 4868.9 | 1861.6 | 724.6 | 472.8 | 445.7 | 483.5 | 470.3 | 432.5 | 396.6 |
| 58° | 5709.3 | 5601.7 | 4894.7 | 1872.2 | 716.4 | 468.4 | 442.6 | 477.2 | 466.5 | 427.4 | 391.6 |
| 60° | 5630.0 | 5537.5 | 4899.7 | 1857.1 | 669.9 | 446.3 | 426.2 | 451.4 | 446.3 | 397.8 | 364.5 |
| 62.5° | 5341.6 | 5242.8 | 4696.4 | 1734.4 | 608.2 | 419.3 | 401.1 | 416.8 | 405.4 | 356.3 | 325.5 |
| 65° | 4931.8 | 4749.9 | 4278.4 | 1541.7 | 564.1 | 390.3 | 367.0 | 368.2 | 356.3 | 321.0 | 294.0 |
| 67.5° | 4386.1 | 4182.7 | 3622.4 | 1299.4 | 530.7 | 358.2 | 326.7 | 323.6 | 309.1 | 286.4 | 264.4 |
| 70° | 3714.3 | 3575.2 | 2943.8 | 1057.0 | 493.5 | 323.0 | 281.4 | 279.5 | 270.7 | 253.7 | 234.2 |
| 72.5° | 3010.5 | 2833.6 | 2377.1 | 846.1 | 448.3 | 288.9 | 239.2 | 243.0 | 231.7 | 219.7 | 202.1 |
| 75° | 2221.7 | 2105.8 | 1837.6 | 678.6 | 387.2 | 251.8 | 199.6 | 200.8 | 195.8 | 183.2 | 169.4 |
| 77.5° | 1463.0 | 1428.4 | 1314.5 | 445.7 | 297.8 | 200.2 | 163.0 | 164.3 | 160.5 | 149.2 | 134.8 |
| 80° | 984.6 | 961.3 | 890.8 | 287.0 | 199.0 | 144.8 | 125.9 | 127.2 | 126.5 | 114.6 | 95.1 |
| 82.5° | 606.9 | 596.8 | 574.2 | 193.9 | 137.9 | 103.9 | 83.1 | 86.9 | 93.8 | 80.6 | 64.8 |
| 85° | 286.4 | 287.0 | 346.9 | 105.8 | 81.2 | 66.7 | 45.3 | 48.5 | 48.5 | 48.5 | 36.5 |
| 87.5° | 37.1 | 39.0 | 47.8 | 44.7 | 29.6 | 25.2 | 16.4 | 13.9 | 12.0 | 15.7 | 11.4 |
| 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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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2394.8 | 2394.8 | 2394.8 | 2394.8 | 2394.8 | 2394.8 | 2394.8 | 2394.8 | 2394.8 | 2394.8 | 2394.8 |
| 2.5° | 2077.5 | 2064.9 | 2037.8 | 2031.5 | 2027.7 | 2038.5 | 2010.1 | 2017.7 | 2005.1 | 2040.3 | 2034.7 |
| 5° | 1739.4 | 1740.7 | 1762.7 | 1777.2 | 1782.3 | 1777.2 | 1758.3 | 1725.6 | 1700.4 | 1690.3 | 1692.8 |
| 7.5° | 1499.0 | 1521.0 | 1558.7 | 1600.9 | 1639.3 | 1650.6 | 1640.0 | 1577.7 | 1509.6 | 1466.8 | 1453.0 |
| 10° | 1419.0 | 1448.6 | 1492.0 | 1525.4 | 1559.3 | 1586.4 | 1592.1 | 1543.6 | 1463.0 | 1361.7 | 1322.0 |
| 12.5° | 1423.4 | 1463.7 | 1505.2 | 1516.0 | 1512.8 | 1523.5 | 1518.5 | 1510.3 | 1457.4 | 1328.4 | 1262.2 |
| 15° | 1381.8 | 1429.7 | 1458.7 | 1453.0 | 1442.9 | 1433.4 | 1420.3 | 1399.5 | 1380.6 | 1289.9 | 1216.9 |
| 17.5° | 1286.2 | 1335.2 | 1359.2 | 1361.1 | 1361.1 | 1358.6 | 1326.5 | 1318.9 | 1316.4 | 1272.3 | 1227.6 |
| 20° | 1303.8 | 1330.9 | 1320.1 | 1302.5 | 1307.5 | 1324.5 | 1305.7 | 1301.9 | 1316.4 | 1335.9 | 1327.7 |
| 22.5° | 1313.9 | 1304.4 | 1223.8 | 1145.8 | 1128.1 | 1181.0 | 1191.7 | 1233.9 | 1292.4 | 1363.0 | 1408.9 |
| 25° | 1251.5 | 1175.4 | 1031.2 | 943.0 | 893.3 | 942.4 | 1006.6 | 1084.7 | 1172.2 | 1262.8 | 1316.4 |
| 27.5° | 1046.3 | 988.4 | 885.1 | 805.8 | 762.4 | 769.9 | 824.7 | 895.8 | 977.0 | 1038.1 | 1077.2 |
| 30° | 788.2 | 762.4 | 708.8 | 681.8 | 655.4 | 649.0 | 672.4 | 699.5 | 735.3 | 742.8 | 752.9 |
| 32.5° | 580.4 | 576.7 | 579.8 | 571.0 | 566.0 | 565.3 | 558.4 | 564.7 | 568.5 | 572.9 | 564.1 |
| 35° | 525.0 | 520.0 | 511.2 | 508.6 | 505.5 | 506.8 | 503.6 | 500.5 | 503.0 | 506.8 | 509.3 |
| 37.5° | 496.7 | 489.1 | 476.5 | 472.1 | 472.1 | 474.0 | 469.0 | 467.8 | 472.1 | 484.1 | 490.4 |
| 40° | 474.7 | 465.9 | 451.4 | 445.7 | 449.5 | 454.5 | 447.6 | 445.1 | 455.8 | 468.4 | 478.4 |
| 42.5° | 453.9 | 446.9 | 433.2 | 426.8 | 429.9 | 439.4 | 429.3 | 427.4 | 441.3 | 455.2 | 467.1 |
| 45° | 436.3 | 429.3 | 416.8 | 413.6 | 414.8 | 423.7 | 416.8 | 416.8 | 429.9 | 445.1 | 455.8 |
| 47.5° | 422.4 | 413.6 | 405.4 | 402.9 | 404.2 | 409.2 | 407.9 | 407.9 | 420.5 | 436.3 | 446.9 |
| 50° | 408.6 | 401.1 | 390.3 | 391.6 | 394.7 | 401.7 | 401.1 | 402.9 | 415.5 | 435.0 | 446.3 |
| 52.5° | 402.3 | 391.0 | 379.0 | 380.2 | 389.7 | 397.8 | 395.3 | 397.2 | 411.7 | 448.3 | 464.6 |
| 55° | 395.3 | 380.2 | 366.4 | 368.2 | 379.0 | 391.0 | 387.8 | 390.3 | 407.3 | 457.0 | 479.7 |
| 57.5° | 382.1 | 364.5 | 349.4 | 350.6 | 366.4 | 379.0 | 374.0 | 377.1 | 397.2 | 447.6 | 471.5 |
| 58° | 376.5 | 361.4 | 346.9 | 347.5 | 362.6 | 376.5 | 370.8 | 373.3 | 394.1 | 445.1 | 467.8 |
| 60° | 352.5 | 343.7 | 331.1 | 331.8 | 346.2 | 358.2 | 355.1 | 357.6 | 377.7 | 426.8 | 443.8 |
| 62.5° | 319.8 | 314.8 | 311.6 | 311.6 | 320.4 | 331.8 | 334.9 | 338.1 | 356.3 | 385.9 | 401.1 |
| 65° | 284.5 | 284.5 | 285.2 | 285.2 | 290.9 | 305.3 | 307.2 | 315.4 | 332.4 | 346.9 | 358.2 |
| 67.5° | 260.7 | 259.4 | 260.7 | 257.5 | 260.0 | 268.8 | 278.3 | 285.8 | 303.4 | 313.5 | 317.3 |
| 70° | 229.8 | 229.2 | 229.8 | 225.3 | 228.6 | 236.1 | 242.3 | 254.9 | 273.2 | 280.8 | 282.7 |
| 72.5° | 199.6 | 199.6 | 200.8 | 197.7 | 197.7 | 205.9 | 210.2 | 224.1 | 241.1 | 245.5 | 246.2 |
| 75° | 168.1 | 170.0 | 170.0 | 165.6 | 166.9 | 171.9 | 177.5 | 188.9 | 204.6 | 207.7 | 207.7 |
| 77.5° | 133.5 | 140.4 | 140.4 | 136.0 | 137.9 | 138.5 | 146.0 | 151.7 | 163.6 | 165.0 | 159.9 |
| 80° | 96.9 | 103.9 | 109.5 | 105.8 | 108.9 | 105.2 | 109.5 | 113.3 | 125.3 | 119.6 | 111.4 |
| 82.5° | 69.2 | 74.3 | 78.7 | 79.3 | 76.2 | 69.2 | 74.9 | 75.6 | 81.2 | 73.7 | 69.2 |
| 85° | 38.4 | 42.8 | 48.5 | 46.0 | 41.0 | 36.5 | 38.4 | 39.7 | 39.0 | 37.1 | 34.6 |
| 87.5° | 10.1 | 10.7 | 12.0 | 8.8 | 8.2 | 6.9 | 9.5 | 9.5 | 10.7 | 11.4 | 10.7 |
| 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-835-U-SLR

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2394.8 | 2394.8 | 2394.8 | 2394.8 | 2394.8 | 2394.8 | 2394.8 | 2394.8 | 2394.8 | 2394.8 | 2394.8 |
| 2.5° | 2039.1 | 2066.8 | 2126.6 | 2171.9 | 2227.3 | 2294.7 | 2374.0 | 2453.9 | 2540.2 | 2567.3 | 2605.0 |
| 5° | 1687.2 | 1756.4 | 1785.4 | 1867.8 | 1949.7 | 2072.4 | 2203.4 | 2355.1 | 2521.3 | 2601.3 | 2678.1 |
| 7.5° | 1441.7 | 1478.8 | 1509.0 | 1569.4 | 1667.6 | 1816.9 | 1981.1 | 2170.6 | 2406.1 | 2522.6 | 2635.3 |
| 10° | 1309.4 | 1313.2 | 1350.4 | 1425.3 | 1510.9 | 1642.5 | 1798.0 | 2010.1 | 2272.7 | 2414.3 | 2546.5 |
| 12.5° | 1221.9 | 1205.6 | 1245.8 | 1323.9 | 1420.9 | 1542.4 | 1685.3 | 1887.3 | 2176.3 | 2321.8 | 2481.6 |
| 15° | 1145.1 | 1119.3 | 1149.5 | 1229.5 | 1325.1 | 1468.1 | 1621.7 | 1835.7 | 2138.5 | 2307.9 | 2485.4 |
| 17.5° | 1147.0 | 1075.9 | 1086.6 | 1154.0 | 1249.0 | 1394.4 | 1580.8 | 1833.9 | 2195.8 | 2391.0 | 2601.3 |
| 20° | 1288.7 | 1174.7 | 1126.3 | 1138.9 | 1230.7 | 1389.4 | 1599.7 | 1922.0 | 2384.1 | 2668.6 | 2893.3 |
| 22.5° | 1427.8 | 1359.2 | 1281.1 | 1255.3 | 1305.7 | 1471.9 | 1719.9 | 2130.4 | 2793.3 | 3222.0 | 3628.0 |
| 25° | 1379.3 | 1437.9 | 1418.3 | 1381.8 | 1393.2 | 1531.1 | 1801.8 | 2301.6 | 3111.2 | 3594.0 | 3975.5 |
| 27.5° | 1103.6 | 1210.0 | 1231.3 | 1230.7 | 1235.2 | 1348.5 | 1620.4 | 2186.4 | 3150.9 | 3665.2 | 4029.7 |
| 30° | 775.6 | 785.0 | 796.4 | 818.4 | 838.5 | 939.9 | 1267.9 | 1919.4 | 3133.3 | 3697.3 | 4062.4 |
| 32.5° | 559.7 | 572.2 | 588.0 | 618.2 | 666.0 | 795.1 | 1109.3 | 1834.5 | 3226.4 | 3830.1 | 4158.1 |
| 35° | 511.8 | 526.3 | 541.4 | 576.1 | 621.4 | 741.0 | 1046.3 | 1799.3 | 3379.3 | 4045.4 | 4330.0 |
| 37.5° | 496.7 | 513.1 | 526.3 | 551.5 | 588.0 | 702.0 | 989.0 | 1775.3 | 3536.1 | 4273.3 | 4560.4 |
| 40° | 486.0 | 504.9 | 515.6 | 535.7 | 560.9 | 666.0 | 938.0 | 1756.4 | 3687.9 | 4481.7 | 4745.4 |
| 42.5° | 476.5 | 496.1 | 509.9 | 524.4 | 545.2 | 633.9 | 892.7 | 1737.6 | 3819.4 | 4683.7 | 4929.9 |
| 45° | 465.3 | 489.8 | 507.4 | 518.7 | 537.0 | 606.9 | 858.1 | 1722.4 | 3969.3 | 4863.2 | 5116.3 |
| 47.5° | 455.8 | 482.9 | 504.9 | 518.1 | 525.0 | 588.0 | 830.4 | 1743.2 | 4149.3 | 5050.8 | 5289.4 |
| 50° | 456.4 | 482.2 | 509.9 | 530.7 | 512.5 | 572.2 | 813.4 | 1825.6 | 4383.5 | 5273.7 | 5426.0 |
| 52.5° | 476.5 | 508.0 | 530.1 | 535.1 | 494.9 | 553.3 | 804.5 | 1969.9 | 4660.5 | 5470.7 | 5563.9 |
| 55° | 499.2 | 532.0 | 555.9 | 552.7 | 485.4 | 529.5 | 802.7 | 2123.4 | 4963.9 | 5700.5 | 5743.3 |
| 57.5° | 491.0 | 538.9 | 575.4 | 559.1 | 486.0 | 506.1 | 794.5 | 2247.4 | 5217.6 | 5872.3 | 5920.8 |
| 58° | 488.5 | 536.4 | 577.9 | 557.8 | 484.1 | 499.2 | 792.6 | 2258.2 | 5252.9 | 5884.3 | 5946.0 |
| 60° | 464.0 | 514.4 | 576.1 | 548.3 | 473.4 | 480.4 | 771.8 | 2292.8 | 5243.4 | 5822.6 | 5961.1 |
| 62.5° | 419.3 | 460.8 | 532.6 | 502.4 | 440.7 | 455.2 | 725.2 | 2250.0 | 4987.9 | 5525.5 | 5740.2 |
| 65° | 368.9 | 399.7 | 447.6 | 441.9 | 394.1 | 429.3 | 661.6 | 2080.7 | 4476.0 | 5043.2 | 5269.3 |
| 67.5° | 331.1 | 356.3 | 386.6 | 378.3 | 354.5 | 394.7 | 593.0 | 1794.2 | 3901.9 | 4464.0 | 4748.7 |
| 70° | 292.8 | 312.3 | 327.4 | 321.7 | 314.1 | 360.7 | 532.0 | 1456.1 | 3351.7 | 3913.8 | 4189.6 |
| 72.5° | 253.7 | 271.9 | 284.5 | 276.4 | 271.9 | 324.9 | 482.2 | 1130.0 | 2647.2 | 3228.9 | 3583.3 |
| 75° | 212.2 | 230.4 | 239.2 | 229.8 | 227.2 | 286.4 | 408.6 | 844.2 | 1986.2 | 2489.2 | 2795.2 |
| 77.5° | 164.3 | 183.8 | 195.1 | 192.0 | 193.2 | 235.4 | 329.9 | 577.9 | 1420.3 | 1696.6 | 2019.0 |
| 80° | 115.2 | 136.6 | 144.2 | 141.0 | 149.9 | 179.4 | 232.9 | 367.0 | 979.5 | 1101.1 | 1328.4 |
| 82.5° | 71.2 | 91.3 | 92.6 | 95.7 | 101.9 | 132.8 | 175.6 | 223.5 | 615.0 | 635.9 | 800.8 |
| 85° | 35.9 | 43.5 | 46.6 | 51.6 | 57.3 | 81.2 | 100.1 | 138.5 | 396.0 | 299.7 | 447.6 |
| 87.5° | 12.0 | 12.6 | 15.1 | 18.9 | 23.3 | 33.4 | 42.8 | 56.7 | 98.2 | 54.1 | 138.5 |
| 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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| 5° | 2839.2 | 2964.5 | 3065.8 | 3130.7 | 3103.0 | 3036.2 | 2926.1 | 2785.8 | 2710.2 | 2697.0 |
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| 22.5° | 4010.8 | 3991.3 | 3826.4 | 3824.5 | 4046.1 | 4288.4 | 4273.9 | 3725.0 | 3362.4 | 3324.6 |
| 25° | 4299.1 | 4208.5 | 3969.9 | 3911.9 | 4009.6 | 4383.5 | 4329.4 | 3852.1 | 3517.2 | 3425.3 |
| 27.5° | 4186.5 | 3961.7 | 3804.9 | 3791.8 | 3759.7 | 4112.8 | 4243.1 | 3903.8 | 3571.4 | 3482.0 |
| 30° | 4179.5 | 3849.0 | 3624.9 | 3651.4 | 3682.2 | 4019.6 | 4290.9 | 4065.6 | 3709.9 | 3614.2 |
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| 42.5° | 4736.1 | 4590.7 | 4513.2 | 4580.6 | 4828.0 | 4853.1 | 4917.9 | 5371.2 | 4920.5 | 4745.4 |
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| 58° | 5918.3 | 6444.0 | 7067.8 | 7417.9 | 7317.1 | 6529.6 | 5842.1 | 6008.4 | 5815.7 | 5709.3 |
| 60° | 5903.8 | 6268.3 | 6807.9 | 7119.5 | 7013.7 | 6296.7 | 5818.2 | 5961.1 | 5720.0 | 5630.0 |
| 62.5° | 5769.8 | 5963.6 | 6359.0 | 6585.7 | 6555.4 | 5932.8 | 5720.0 | 5783.0 | 5428.5 | 5341.6 |
| 65° | 5593.4 | 5548.2 | 5784.3 | 5944.8 | 5967.4 | 5660.2 | 5622.4 | 5397.7 | 5054.6 | 4931.8 |
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| 82.5° | 1157.7 | 933.6 | 1113.0 | 1027.4 | 975.8 | 849.2 | 1075.3 | 740.3 | 628.3 | 606.9 |
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| 87.5° | 356.3 | 239.2 | 175.6 | 108.3 | 171.2 | 197.7 | 391.6 | 46.6 | 35.9 | 37.1 |
| 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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