

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: P647286

Luminaire Tested: **GALN-SA2D-835-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647286
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-SA2D-835-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1200mA 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: 10500 lumens
Efficiency: N/A
Efficacy: 84.0 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): 125
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

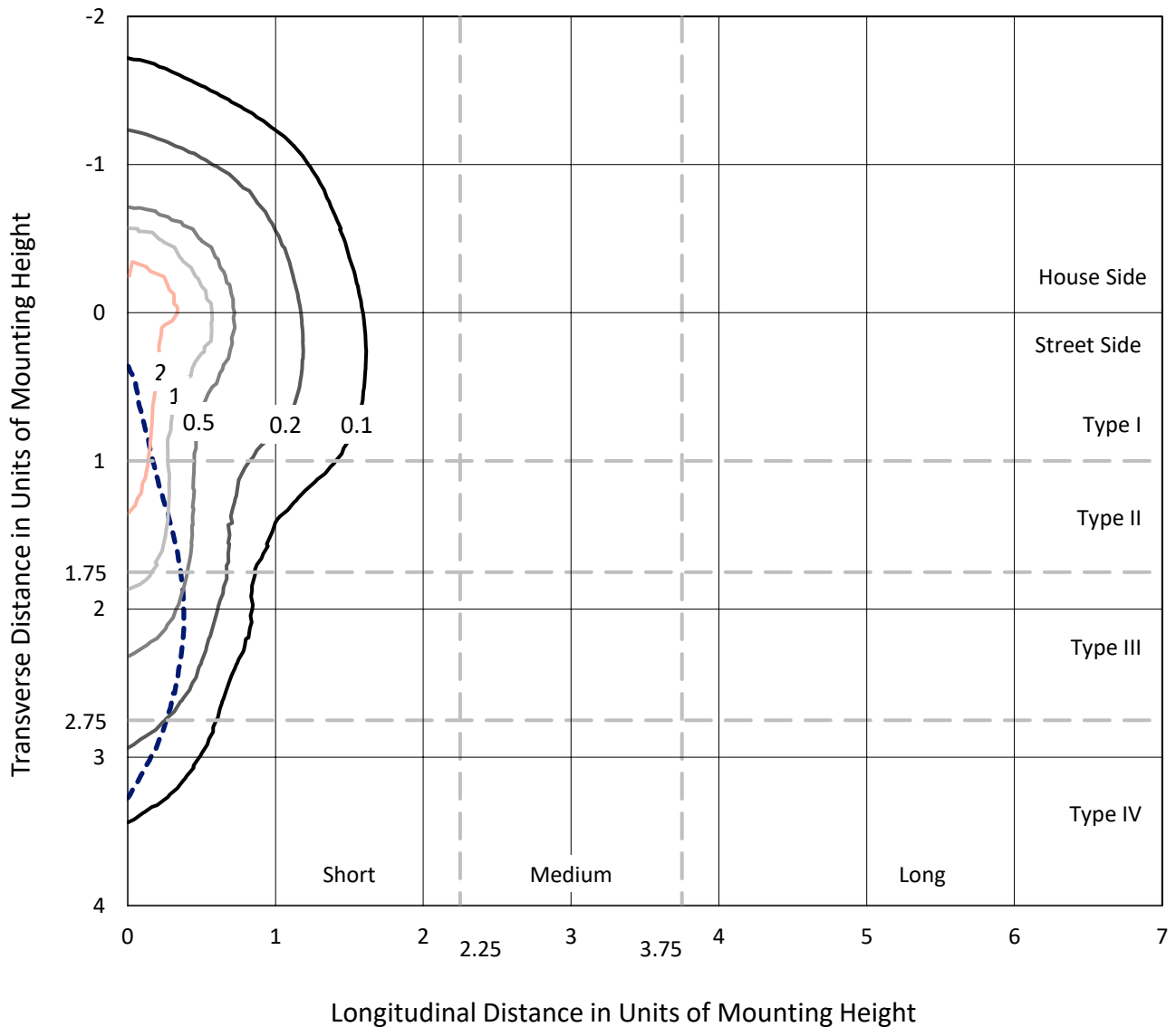




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Iso-Footcandle Lines of Horizontal Illumination

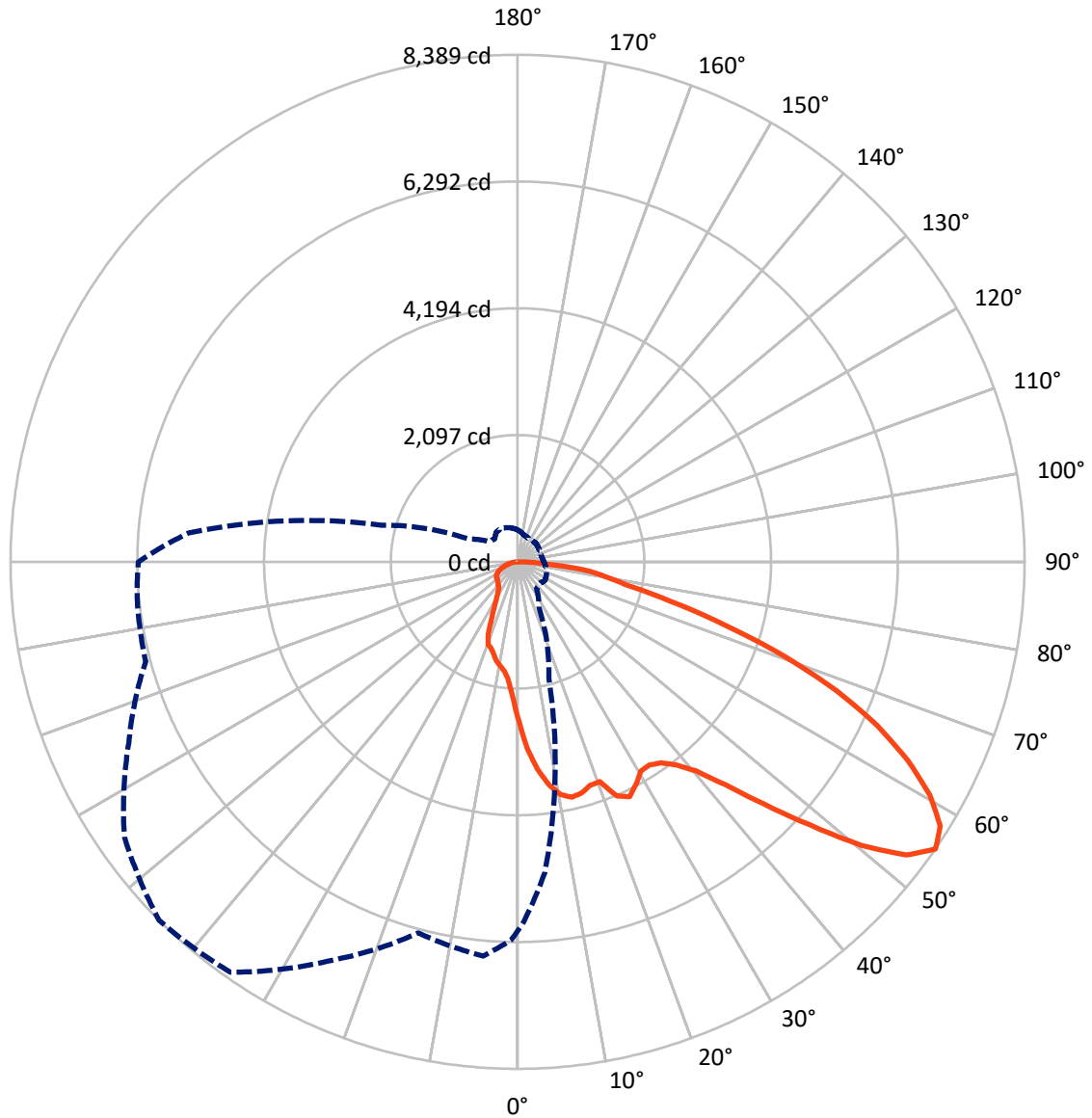
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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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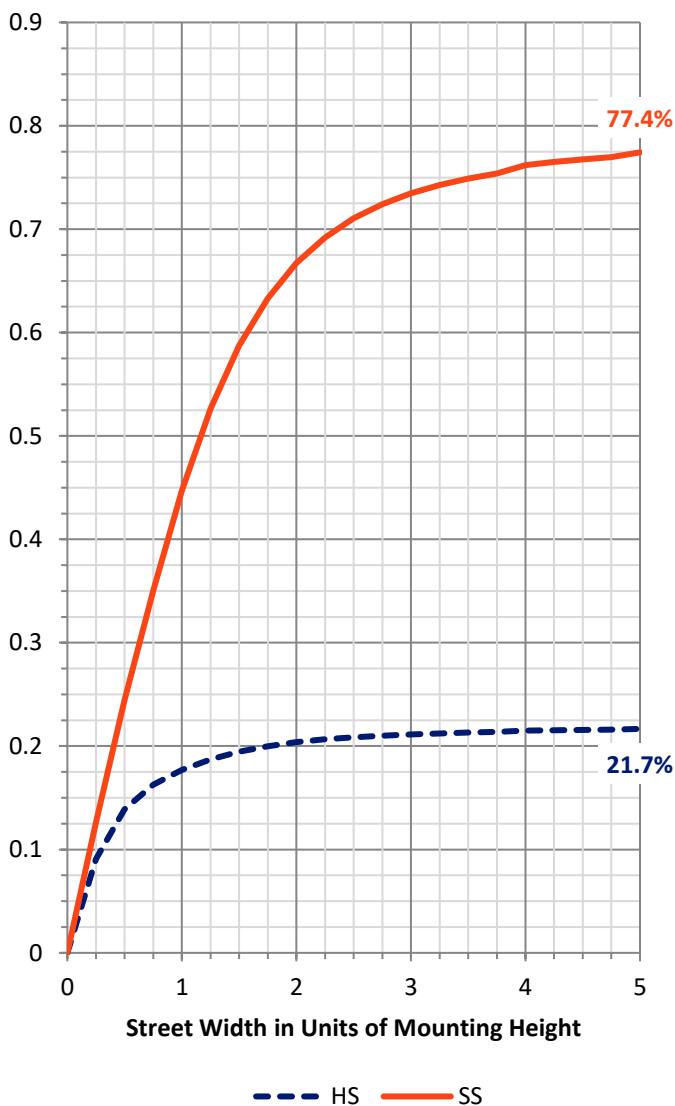
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2296.8 | 0.0 | 2296.8 |
| | % Fixture | 21.9 | 0.0 | 21.9 |
| Street Side | Lumens | 8203.2 | 0.0 | 8203.2 |
| | % Fixture | 78.1 | 0.0 | 78.1 |
| Total | Lumens | 10500.0 | 0.0 | 10500.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 223.3 | 2.1 |
| 10°-20° | 592.5 | 5.6 |
| 20°-30° | 1023.6 | 9.7 |
| 30°-40° | 1189.6 | 11.3 |
| 40°-50° | 1659.7 | 15.8 |
| 50°-60° | 2252.0 | 21.4 |
| 60°-70° | 2142.5 | 20.4 |
| 70°-80° | 1157.4 | 11.0 |
| 80°-90° | 259.4 | 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° | 10500.0 | 100.0 |
| 0°-180° | 10500.0 | 100.0 |

Coefficient of Utilization



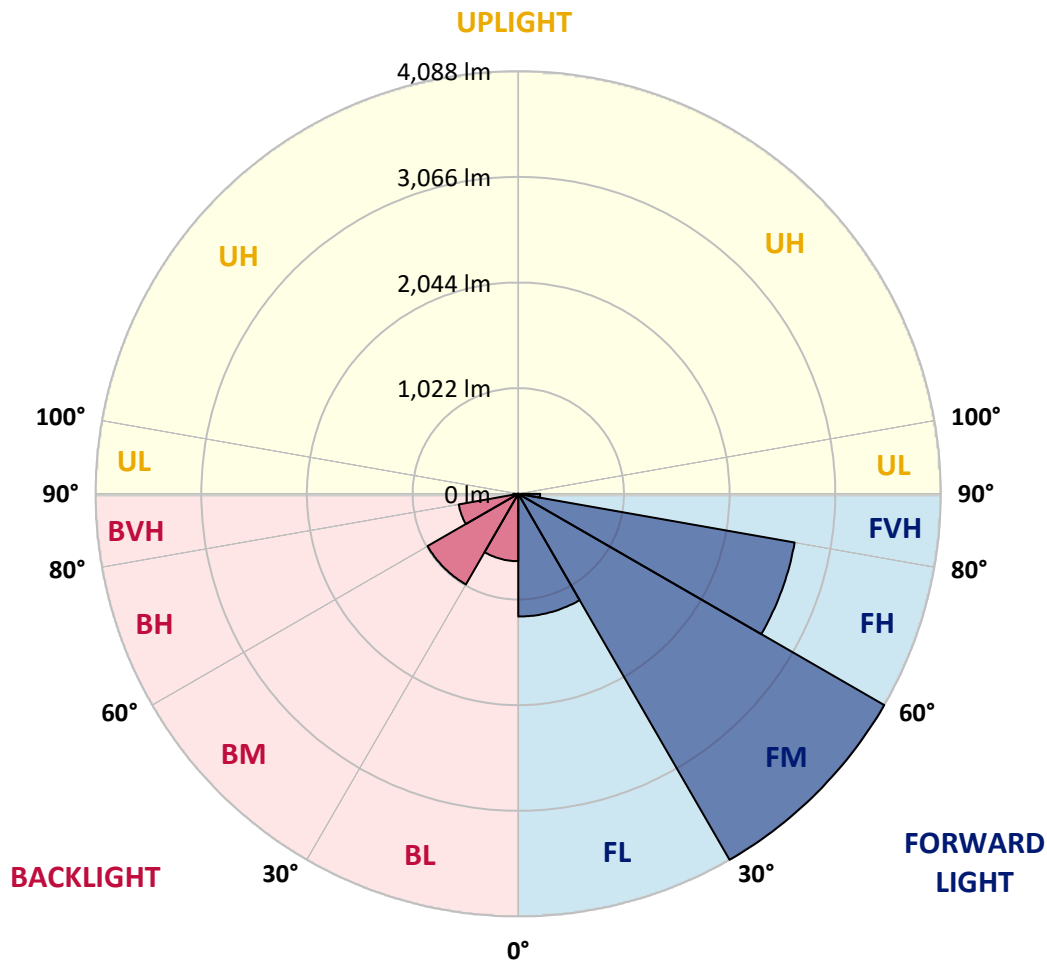
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1187.6 | 11.3 | | | |
| FM (30°-60°) | 4088.5 | 38.9 | | | |
| FH (60°-80°) | 2715.1 | 25.9 | | | G2/5000 |
| FVH (80°-90°) | 212.0 | 2.0 | | | G2/225 |
| BL (0°-30°) | 651.8 | 6.2 | B2/1000 | | |
| BM (30°-60°) | 1012.8 | 9.6 | B2/2500 | | |
| BH (60°-80°) | 584.8 | 5.6 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 47.4 | 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° | 2635.1 | 2635.1 | 2635.1 | 2635.1 | 2635.1 | 2635.1 | 2635.1 | 2635.1 | 2635.1 | 2635.1 | 2635.1 |
| 2.5° | 2927.4 | 2916.4 | 2885.2 | 2803.5 | 2721.0 | 2637.1 | 2572.8 | 2492.4 | 2408.6 | 2363.6 | 2306.1 |
| 5° | 2967.6 | 2955.1 | 2881.7 | 2697.4 | 2530.5 | 2355.3 | 2215.3 | 2092.7 | 2042.8 | 1969.4 | 1910.5 |
| 7.5° | 2873.4 | 2867.8 | 2757.7 | 2493.1 | 2264.5 | 2035.2 | 1876.5 | 1778.2 | 1688.9 | 1655.6 | 1662.5 |
| 10° | 2787.5 | 2765.3 | 2627.5 | 2281.8 | 2015.1 | 1828.8 | 1715.2 | 1618.9 | 1555.8 | 1539.2 | 1542.7 |
| 12.5° | 2716.1 | 2686.4 | 2523.6 | 2139.8 | 1906.4 | 1757.4 | 1612.7 | 1512.2 | 1454.7 | 1470.6 | 1524.7 |
| 15° | 2701.6 | 2661.4 | 2479.9 | 2091.3 | 1846.8 | 1654.9 | 1496.2 | 1380.6 | 1337.6 | 1372.3 | 1458.9 |
| 17.5° | 2795.8 | 2745.3 | 2554.8 | 2107.2 | 1790.0 | 1550.3 | 1355.7 | 1223.4 | 1187.3 | 1242.7 | 1355.7 |
| 20° | 3098.5 | 3023.7 | 2788.2 | 2199.4 | 1784.5 | 1498.3 | 1273.9 | 1140.9 | 1156.2 | 1261.4 | 1379.2 |
| 22.5° | 3658.3 | 3546.1 | 3196.9 | 2333.7 | 1813.5 | 1485.2 | 1257.3 | 1188.0 | 1271.8 | 1361.2 | 1438.8 |
| 25° | 3769.0 | 3681.1 | 3270.4 | 2364.3 | 1807.3 | 1476.2 | 1304.4 | 1339.0 | 1432.6 | 1476.9 | 1449.9 |
| 27.5° | 3831.5 | 3731.0 | 3265.5 | 2213.2 | 1616.1 | 1339.0 | 1246.9 | 1304.4 | 1328.0 | 1285.0 | 1211.5 |
| 30° | 3976.9 | 3872.3 | 3347.9 | 2054.6 | 1330.7 | 993.4 | 870.8 | 847.2 | 863.1 | 871.4 | 845.1 |
| 32.5° | 4177.1 | 4073.9 | 3503.1 | 1950.7 | 1150.6 | 821.6 | 701.0 | 667.7 | 660.1 | 651.1 | 640.7 |
| 35° | 4436.2 | 4277.5 | 3655.4 | 1884.2 | 1076.5 | 759.9 | 649.1 | 623.4 | 613.1 | 600.6 | 589.5 |
| 37.5° | 4699.4 | 4533.2 | 3848.1 | 1814.2 | 1027.3 | 717.0 | 614.4 | 602.7 | 584.7 | 571.5 | 555.5 |
| 40° | 4979.3 | 4792.9 | 4023.3 | 1753.3 | 979.5 | 689.3 | 589.5 | 588.1 | 564.5 | 549.4 | 530.6 |
| 42.5° | 5221.7 | 5029.8 | 4179.9 | 1715.9 | 942.8 | 660.1 | 574.3 | 578.4 | 554.2 | 531.3 | 507.1 |
| 45° | 5414.3 | 5225.9 | 4324.7 | 1715.9 | 913.0 | 631.1 | 571.5 | 568.7 | 544.5 | 516.1 | 488.4 |
| 47.5° | 5583.3 | 5388.7 | 4465.9 | 1759.5 | 894.3 | 606.8 | 556.2 | 561.1 | 536.2 | 500.2 | 473.1 |
| 50° | 5714.3 | 5542.5 | 4656.4 | 1827.4 | 875.6 | 587.4 | 536.8 | 563.2 | 529.2 | 491.8 | 460.6 |
| 52.5° | 5881.2 | 5727.4 | 4885.8 | 1920.2 | 859.7 | 566.0 | 519.5 | 563.2 | 528.5 | 492.5 | 458.6 |
| 55° | 6112.6 | 5950.4 | 5162.2 | 1997.1 | 834.1 | 545.8 | 504.3 | 547.2 | 526.5 | 489.1 | 453.0 |
| 57.5° | 6274.6 | 6153.4 | 5357.4 | 2048.3 | 797.3 | 520.2 | 490.5 | 532.0 | 517.5 | 475.9 | 436.4 |
| 58° | 6282.2 | 6163.8 | 5385.9 | 2060.2 | 788.3 | 515.4 | 486.9 | 525.1 | 513.3 | 470.3 | 430.9 |
| 60° | 6194.9 | 6093.1 | 5391.4 | 2043.6 | 737.0 | 491.1 | 468.9 | 496.7 | 491.1 | 437.8 | 401.1 |
| 62.5° | 5877.7 | 5769.0 | 5167.6 | 1908.4 | 669.2 | 461.3 | 441.3 | 458.6 | 446.1 | 392.0 | 358.1 |
| 65° | 5426.7 | 5226.5 | 4707.7 | 1696.4 | 620.7 | 429.5 | 403.9 | 405.2 | 392.0 | 353.3 | 323.5 |
| 67.5° | 4826.2 | 4602.4 | 3985.9 | 1429.8 | 584.0 | 394.2 | 359.6 | 356.0 | 340.1 | 315.2 | 291.0 |
| 70° | 4087.0 | 3933.9 | 3239.1 | 1163.1 | 543.1 | 355.3 | 309.7 | 307.6 | 297.9 | 279.1 | 257.7 |
| 72.5° | 3312.6 | 3117.9 | 2615.7 | 931.0 | 493.2 | 318.0 | 263.2 | 267.4 | 254.9 | 241.8 | 222.4 |
| 75° | 2444.6 | 2317.1 | 2022.0 | 746.7 | 426.0 | 277.1 | 219.6 | 221.0 | 215.4 | 201.5 | 186.4 |
| 77.5° | 1609.8 | 1571.8 | 1446.4 | 490.5 | 327.7 | 220.3 | 179.4 | 180.8 | 176.6 | 164.2 | 148.2 |
| 80° | 1083.4 | 1057.8 | 980.2 | 315.9 | 218.9 | 159.3 | 138.5 | 139.9 | 139.2 | 126.1 | 104.6 |
| 82.5° | 667.7 | 656.7 | 631.7 | 213.4 | 151.7 | 114.3 | 91.5 | 95.6 | 103.2 | 88.6 | 71.3 |
| 85° | 315.2 | 315.9 | 381.7 | 116.4 | 89.3 | 73.4 | 49.9 | 53.3 | 53.3 | 53.3 | 40.2 |
| 87.5° | 40.9 | 43.0 | 52.6 | 49.2 | 32.6 | 27.7 | 18.0 | 15.3 | 13.2 | 17.3 | 12.4 |
| 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-SA2D-835-U-SLR

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2635.1 | 2635.1 | 2635.1 | 2635.1 | 2635.1 | 2635.1 | 2635.1 | 2635.1 | 2635.1 | 2635.1 | 2635.1 |
| 2.5° | 2286.0 | 2272.1 | 2242.4 | 2235.4 | 2231.2 | 2243.0 | 2211.8 | 2220.2 | 2206.3 | 2245.1 | 2238.8 |
| 5° | 1914.0 | 1915.4 | 1939.6 | 1955.5 | 1961.1 | 1955.5 | 1934.8 | 1898.8 | 1871.1 | 1859.9 | 1862.7 |
| 7.5° | 1649.4 | 1673.6 | 1715.2 | 1761.6 | 1803.9 | 1816.3 | 1804.5 | 1735.9 | 1661.1 | 1614.0 | 1598.8 |
| 10° | 1561.4 | 1594.0 | 1641.7 | 1678.4 | 1715.9 | 1745.6 | 1751.9 | 1698.6 | 1609.8 | 1498.3 | 1454.7 |
| 12.5° | 1566.2 | 1610.6 | 1656.3 | 1668.0 | 1664.6 | 1676.4 | 1670.8 | 1661.8 | 1603.7 | 1461.6 | 1388.9 |
| 15° | 1520.5 | 1573.1 | 1605.0 | 1598.8 | 1587.7 | 1577.4 | 1562.8 | 1539.9 | 1519.1 | 1419.3 | 1339.0 |
| 17.5° | 1415.2 | 1469.2 | 1495.6 | 1497.6 | 1497.6 | 1494.9 | 1459.6 | 1451.2 | 1448.5 | 1400.0 | 1350.8 |
| 20° | 1434.6 | 1464.4 | 1452.6 | 1433.2 | 1438.8 | 1457.5 | 1436.7 | 1432.6 | 1448.5 | 1469.9 | 1460.9 |
| 22.5° | 1445.7 | 1435.3 | 1346.7 | 1260.7 | 1241.4 | 1299.5 | 1311.3 | 1357.7 | 1422.2 | 1499.8 | 1550.3 |
| 25° | 1377.1 | 1293.3 | 1134.6 | 1037.7 | 983.0 | 1037.0 | 1107.6 | 1193.5 | 1289.8 | 1389.6 | 1448.5 |
| 27.5° | 1151.3 | 1087.6 | 974.0 | 886.7 | 838.9 | 847.2 | 907.5 | 985.7 | 1075.1 | 1142.3 | 1185.2 |
| 30° | 867.3 | 838.9 | 780.0 | 750.2 | 721.1 | 714.2 | 739.9 | 769.6 | 809.1 | 817.4 | 828.5 |
| 32.5° | 638.7 | 634.5 | 638.0 | 628.3 | 622.7 | 622.1 | 614.4 | 621.4 | 625.5 | 630.4 | 620.7 |
| 35° | 577.7 | 572.2 | 562.5 | 559.7 | 556.2 | 557.7 | 554.2 | 550.7 | 553.5 | 557.7 | 560.4 |
| 37.5° | 546.5 | 538.2 | 524.4 | 519.5 | 519.5 | 521.6 | 516.1 | 514.7 | 519.5 | 532.7 | 539.6 |
| 40° | 522.3 | 512.6 | 496.7 | 490.5 | 494.6 | 500.2 | 492.5 | 489.8 | 501.5 | 515.4 | 526.5 |
| 42.5° | 499.5 | 491.8 | 476.6 | 469.6 | 473.1 | 483.5 | 472.5 | 470.3 | 485.6 | 500.8 | 514.0 |
| 45° | 480.1 | 472.5 | 458.6 | 455.1 | 456.5 | 466.2 | 458.6 | 458.6 | 473.1 | 489.8 | 501.5 |
| 47.5° | 464.8 | 455.1 | 446.1 | 443.3 | 444.7 | 450.3 | 448.9 | 448.9 | 462.8 | 480.1 | 491.8 |
| 50° | 449.6 | 441.3 | 429.5 | 430.9 | 434.3 | 441.9 | 441.3 | 443.3 | 457.2 | 478.6 | 491.1 |
| 52.5° | 442.6 | 430.2 | 417.0 | 418.4 | 428.8 | 437.8 | 435.0 | 437.1 | 453.0 | 493.2 | 511.2 |
| 55° | 435.0 | 418.4 | 403.2 | 405.2 | 417.0 | 430.2 | 426.7 | 429.5 | 448.2 | 502.9 | 527.8 |
| 57.5° | 420.5 | 401.1 | 384.5 | 385.9 | 403.2 | 417.0 | 411.5 | 414.9 | 437.1 | 492.5 | 518.8 |
| 58° | 414.2 | 397.6 | 381.7 | 382.4 | 399.0 | 414.2 | 408.0 | 410.8 | 433.6 | 489.8 | 514.7 |
| 60° | 387.9 | 378.2 | 364.4 | 365.0 | 381.0 | 394.2 | 390.7 | 393.5 | 415.6 | 469.6 | 488.4 |
| 62.5° | 351.9 | 346.3 | 342.9 | 342.9 | 352.6 | 365.0 | 368.6 | 372.0 | 392.0 | 424.6 | 441.3 |
| 65° | 313.1 | 313.1 | 313.8 | 313.8 | 320.0 | 336.0 | 338.0 | 347.0 | 365.7 | 381.7 | 394.2 |
| 67.5° | 286.8 | 285.4 | 286.8 | 283.3 | 286.1 | 295.8 | 306.2 | 314.5 | 333.9 | 345.0 | 349.1 |
| 70° | 252.8 | 252.1 | 252.8 | 248.0 | 251.4 | 259.8 | 266.7 | 280.5 | 300.7 | 309.0 | 311.0 |
| 72.5° | 219.6 | 219.6 | 221.0 | 217.5 | 217.5 | 226.5 | 231.4 | 246.6 | 265.3 | 270.1 | 270.8 |
| 75° | 184.9 | 187.1 | 187.1 | 182.2 | 183.5 | 189.1 | 195.4 | 207.8 | 225.1 | 228.6 | 228.6 |
| 77.5° | 146.9 | 154.5 | 154.5 | 149.6 | 151.7 | 152.4 | 160.7 | 166.9 | 180.1 | 181.5 | 175.9 |
| 80° | 106.6 | 114.3 | 120.5 | 116.4 | 119.9 | 115.6 | 120.5 | 124.7 | 137.9 | 131.6 | 122.6 |
| 82.5° | 76.2 | 81.7 | 86.6 | 87.3 | 83.8 | 76.2 | 82.4 | 83.2 | 89.3 | 81.0 | 76.2 |
| 85° | 42.3 | 47.1 | 53.3 | 50.6 | 45.0 | 40.2 | 42.3 | 43.6 | 43.0 | 40.9 | 38.1 |
| 87.5° | 11.1 | 11.7 | 13.2 | 9.7 | 9.0 | 7.6 | 10.4 | 10.4 | 11.7 | 12.4 | 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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 CATALOG NUMBER: GALN-SA2D-835-U-SLR

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2635.1 | 2635.1 | 2635.1 | 2635.1 | 2635.1 | 2635.1 | 2635.1 | 2635.1 | 2635.1 | 2635.1 | 2635.1 |
| 2.5° | 2243.7 | 2274.2 | 2340.0 | 2389.9 | 2450.9 | 2524.9 | 2612.2 | 2700.2 | 2795.2 | 2824.9 | 2866.5 |
| 5° | 1856.5 | 1932.7 | 1964.5 | 2055.3 | 2145.3 | 2280.4 | 2424.5 | 2591.5 | 2774.3 | 2862.3 | 2946.8 |
| 7.5° | 1586.4 | 1627.2 | 1660.4 | 1726.9 | 1835.0 | 1999.2 | 2180.0 | 2388.5 | 2647.6 | 2775.7 | 2899.7 |
| 10° | 1440.9 | 1445.0 | 1485.9 | 1568.3 | 1662.5 | 1807.3 | 1978.4 | 2211.8 | 2500.7 | 2656.6 | 2802.0 |
| 12.5° | 1344.6 | 1326.6 | 1370.9 | 1456.8 | 1563.5 | 1697.2 | 1854.4 | 2076.8 | 2394.7 | 2554.8 | 2730.7 |
| 15° | 1260.1 | 1231.7 | 1264.9 | 1352.9 | 1458.2 | 1615.4 | 1784.5 | 2020.0 | 2353.1 | 2539.5 | 2734.9 |
| 17.5° | 1262.1 | 1183.8 | 1195.6 | 1269.7 | 1374.3 | 1534.4 | 1739.4 | 2017.9 | 2416.2 | 2631.0 | 2862.3 |
| 20° | 1418.0 | 1292.6 | 1239.3 | 1253.1 | 1354.3 | 1528.8 | 1760.2 | 2114.9 | 2623.3 | 2936.4 | 3183.8 |
| 22.5° | 1571.1 | 1495.6 | 1409.7 | 1381.3 | 1436.7 | 1619.6 | 1892.5 | 2344.1 | 3073.6 | 3545.3 | 3992.1 |
| 25° | 1517.8 | 1582.1 | 1560.7 | 1520.5 | 1533.0 | 1684.7 | 1982.6 | 2532.6 | 3423.4 | 3954.7 | 4374.5 |
| 27.5° | 1214.4 | 1331.4 | 1355.0 | 1354.3 | 1359.1 | 1483.8 | 1783.0 | 2405.8 | 3467.0 | 4033.0 | 4434.1 |
| 30° | 853.4 | 863.8 | 876.3 | 900.5 | 922.7 | 1034.3 | 1395.1 | 2112.1 | 3447.6 | 4068.3 | 4470.1 |
| 32.5° | 615.8 | 629.7 | 647.0 | 680.3 | 732.9 | 874.9 | 1220.5 | 2018.6 | 3550.2 | 4214.5 | 4575.4 |
| 35° | 563.2 | 579.1 | 595.7 | 633.8 | 683.7 | 815.3 | 1151.3 | 1979.8 | 3718.5 | 4451.4 | 4764.5 |
| 37.5° | 546.5 | 564.5 | 579.1 | 606.8 | 647.0 | 772.4 | 1088.3 | 1953.4 | 3891.0 | 4702.1 | 5018.0 |
| 40° | 534.8 | 555.5 | 567.4 | 589.5 | 617.2 | 732.9 | 1032.2 | 1932.7 | 4058.0 | 4931.5 | 5221.7 |
| 42.5° | 524.4 | 545.8 | 561.1 | 577.1 | 599.9 | 697.6 | 982.3 | 1911.9 | 4202.8 | 5153.8 | 5424.7 |
| 45° | 511.9 | 538.9 | 558.4 | 570.8 | 590.9 | 667.7 | 944.1 | 1895.3 | 4367.6 | 5351.3 | 5629.7 |
| 47.5° | 501.5 | 531.3 | 555.5 | 570.1 | 577.7 | 647.0 | 913.7 | 1918.1 | 4565.7 | 5557.7 | 5820.2 |
| 50° | 502.2 | 530.6 | 561.1 | 584.0 | 563.8 | 629.7 | 895.0 | 2008.9 | 4823.4 | 5802.9 | 5970.5 |
| 52.5° | 524.4 | 559.1 | 583.3 | 588.8 | 544.5 | 608.9 | 885.3 | 2167.5 | 5128.2 | 6019.7 | 6122.2 |
| 55° | 549.4 | 585.4 | 611.7 | 608.2 | 534.1 | 582.6 | 883.2 | 2336.6 | 5462.1 | 6272.5 | 6319.7 |
| 57.5° | 540.3 | 593.0 | 633.1 | 615.1 | 534.8 | 556.9 | 874.2 | 2473.0 | 5741.3 | 6461.7 | 6515.0 |
| 58° | 537.5 | 590.2 | 636.0 | 613.7 | 532.7 | 549.4 | 872.1 | 2484.8 | 5780.0 | 6474.9 | 6542.7 |
| 60° | 510.5 | 566.0 | 633.8 | 603.4 | 520.9 | 528.5 | 849.2 | 2522.9 | 5769.6 | 6407.0 | 6559.3 |
| 62.5° | 461.3 | 507.1 | 586.1 | 552.8 | 484.9 | 500.8 | 798.0 | 2475.8 | 5488.4 | 6080.0 | 6316.2 |
| 65° | 405.9 | 439.9 | 492.5 | 486.3 | 433.6 | 472.5 | 728.0 | 2289.4 | 4925.2 | 5549.4 | 5798.0 |
| 67.5° | 364.4 | 392.0 | 425.3 | 416.3 | 390.0 | 434.3 | 652.6 | 1974.3 | 4293.5 | 4912.1 | 5225.2 |
| 70° | 322.1 | 343.6 | 360.2 | 354.0 | 345.7 | 396.9 | 585.4 | 1602.3 | 3688.0 | 4306.7 | 4610.1 |
| 72.5° | 279.1 | 299.3 | 313.1 | 304.1 | 299.3 | 357.4 | 530.6 | 1243.4 | 2912.8 | 3552.9 | 3943.0 |
| 75° | 233.4 | 253.5 | 263.2 | 252.8 | 250.1 | 315.2 | 449.6 | 929.0 | 2185.5 | 2739.0 | 3075.7 |
| 77.5° | 180.8 | 202.2 | 214.8 | 211.3 | 212.7 | 259.1 | 363.0 | 636.0 | 1562.8 | 1866.9 | 2221.5 |
| 80° | 126.8 | 150.3 | 158.6 | 155.2 | 164.9 | 197.4 | 256.3 | 403.9 | 1077.9 | 1211.5 | 1461.6 |
| 82.5° | 78.3 | 100.5 | 101.9 | 105.3 | 112.2 | 146.2 | 193.2 | 245.9 | 676.7 | 699.6 | 881.1 |
| 85° | 39.5 | 47.8 | 51.3 | 56.8 | 63.0 | 89.3 | 110.2 | 152.4 | 435.7 | 329.7 | 492.5 |
| 87.5° | 13.2 | 13.9 | 16.6 | 20.7 | 25.6 | 36.7 | 47.1 | 62.3 | 108.1 | 59.6 | 152.4 |
| 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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|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2635.1 | 2635.1 | 2635.1 | 2635.1 | 2635.1 | 2635.1 | 2635.1 | 2635.1 | 2635.1 | 2635.1 |
| 2.5° | 2950.3 | 3009.1 | 3052.1 | 3091.6 | 3053.5 | 3050.0 | 3012.6 | 2952.4 | 2927.4 | 2927.4 |
| 5° | 3124.2 | 3262.0 | 3373.6 | 3444.9 | 3414.4 | 3341.0 | 3219.8 | 3065.3 | 2982.1 | 2967.6 |
| 7.5° | 3171.9 | 3444.2 | 3651.3 | 3724.7 | 3673.4 | 3511.4 | 3279.4 | 3018.9 | 2899.7 | 2873.4 |
| 10° | 3142.9 | 3496.8 | 3800.9 | 3917.3 | 3845.9 | 3600.8 | 3284.1 | 2964.8 | 2817.9 | 2787.5 |
| 12.5° | 3112.3 | 3503.8 | 3828.6 | 3997.0 | 3950.5 | 3672.8 | 3319.5 | 2929.5 | 2759.8 | 2716.1 |
| 15° | 3134.6 | 3506.5 | 3794.7 | 3968.6 | 3998.4 | 3759.3 | 3377.7 | 2955.1 | 2748.0 | 2701.6 |
| 17.5° | 3274.5 | 3559.2 | 3746.2 | 3886.8 | 3991.4 | 3877.1 | 3543.2 | 3077.7 | 2853.3 | 2795.8 |
| 20° | 3566.8 | 3685.3 | 3773.9 | 3882.7 | 4051.0 | 4117.5 | 3882.0 | 3414.4 | 3149.1 | 3098.5 |
| 22.5° | 4413.3 | 4391.8 | 4210.3 | 4208.2 | 4452.1 | 4718.8 | 4702.9 | 4098.8 | 3699.8 | 3658.3 |
| 25° | 4730.6 | 4630.8 | 4368.3 | 4304.5 | 4411.9 | 4823.4 | 4763.9 | 4238.8 | 3870.2 | 3769.0 |
| 27.5° | 4606.5 | 4359.3 | 4186.8 | 4172.2 | 4136.9 | 4525.5 | 4669.0 | 4295.5 | 3929.8 | 3831.5 |
| 30° | 4599.0 | 4235.2 | 3988.7 | 4017.7 | 4051.7 | 4423.0 | 4721.6 | 4473.6 | 4082.2 | 3976.9 |
| 32.5° | 4617.7 | 4252.6 | 4003.2 | 4008.7 | 4109.9 | 4438.3 | 4779.7 | 4667.5 | 4282.4 | 4177.1 |
| 35° | 4693.1 | 4351.0 | 4096.0 | 4082.9 | 4240.8 | 4538.0 | 4878.8 | 4972.4 | 4556.0 | 4436.2 |
| 37.5° | 4815.1 | 4547.0 | 4265.8 | 4262.3 | 4491.6 | 4718.1 | 5002.1 | 5279.9 | 4828.2 | 4699.4 |
| 40° | 4994.5 | 4776.3 | 4567.8 | 4549.1 | 4832.4 | 5011.1 | 5162.2 | 5607.5 | 5144.8 | 4979.3 |
| 42.5° | 5211.3 | 5051.3 | 4966.1 | 5040.2 | 5312.4 | 5340.1 | 5411.5 | 5910.2 | 5414.3 | 5221.7 |
| 45° | 5412.2 | 5404.6 | 5523.0 | 5719.7 | 5878.4 | 5712.1 | 5672.0 | 6113.2 | 5623.5 | 5414.3 |
| 47.5° | 5651.2 | 5857.6 | 6215.1 | 6503.2 | 6669.5 | 6145.1 | 5894.3 | 6245.5 | 5775.9 | 5583.3 |
| 50° | 5893.6 | 6400.0 | 6970.8 | 7372.6 | 7407.9 | 6615.5 | 6047.4 | 6370.3 | 5914.4 | 5714.3 |
| 52.5° | 6148.6 | 6832.9 | 7592.9 | 8059.7 | 7991.2 | 7024.8 | 6195.6 | 6454.7 | 6057.1 | 5881.2 |
| 55° | 6370.3 | 7098.3 | 7940.6 | 8388.8 | 8288.4 | 7274.2 | 6355.7 | 6546.2 | 6260.8 | 6112.6 |
| 57.5° | 6494.2 | 7120.4 | 7854.0 | 8245.4 | 8136.6 | 7225.8 | 6429.1 | 6614.1 | 6391.0 | 6274.6 |
| 58° | 6512.2 | 7090.7 | 7777.1 | 8162.3 | 8051.4 | 7184.9 | 6428.4 | 6611.3 | 6399.3 | 6282.2 |
| 60° | 6496.3 | 6897.4 | 7491.0 | 7833.9 | 7717.6 | 6928.5 | 6402.1 | 6559.3 | 6294.1 | 6194.9 |
| 62.5° | 6348.7 | 6562.1 | 6997.1 | 7246.5 | 7213.2 | 6528.2 | 6294.1 | 6363.3 | 5973.3 | 5877.7 |
| 65° | 6154.8 | 6104.9 | 6364.7 | 6541.3 | 6566.2 | 6228.2 | 6186.6 | 5939.4 | 5561.8 | 5426.7 |
| 67.5° | 5919.2 | 5586.8 | 5586.1 | 5686.5 | 5728.1 | 5766.9 | 5962.9 | 5478.7 | 4968.8 | 4826.2 |
| 70° | 5519.6 | 4788.0 | 4567.8 | 4686.3 | 4651.6 | 4979.3 | 5563.2 | 4831.7 | 4254.0 | 4087.0 |
| 72.5° | 4786.7 | 3799.6 | 3447.0 | 3599.4 | 3512.1 | 3904.8 | 4867.8 | 3976.2 | 3517.6 | 3312.6 |
| 75° | 3879.9 | 2842.2 | 2478.5 | 2618.5 | 2564.4 | 2962.1 | 4050.3 | 2887.9 | 2522.9 | 2444.6 |
| 77.5° | 3012.6 | 2059.4 | 1848.2 | 1828.8 | 1868.9 | 2204.2 | 2971.1 | 1950.0 | 1663.2 | 1609.8 |
| 80° | 1935.4 | 1474.1 | 1486.6 | 1461.6 | 1482.5 | 1389.6 | 1803.9 | 1244.1 | 1126.3 | 1083.4 |
| 82.5° | 1273.9 | 1027.3 | 1224.7 | 1130.5 | 1073.7 | 934.5 | 1183.2 | 814.6 | 691.3 | 667.7 |
| 85° | 868.0 | 756.5 | 688.6 | 526.5 | 620.0 | 719.7 | 887.4 | 438.5 | 347.7 | 315.2 |
| 87.5° | 392.0 | 263.2 | 193.2 | 119.2 | 188.4 | 217.5 | 430.9 | 51.3 | 39.5 | 40.9 |
| 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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