

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: P938806

Luminaire Tested: **GALN-SB1A-835-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938806
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-835-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3500K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3264 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

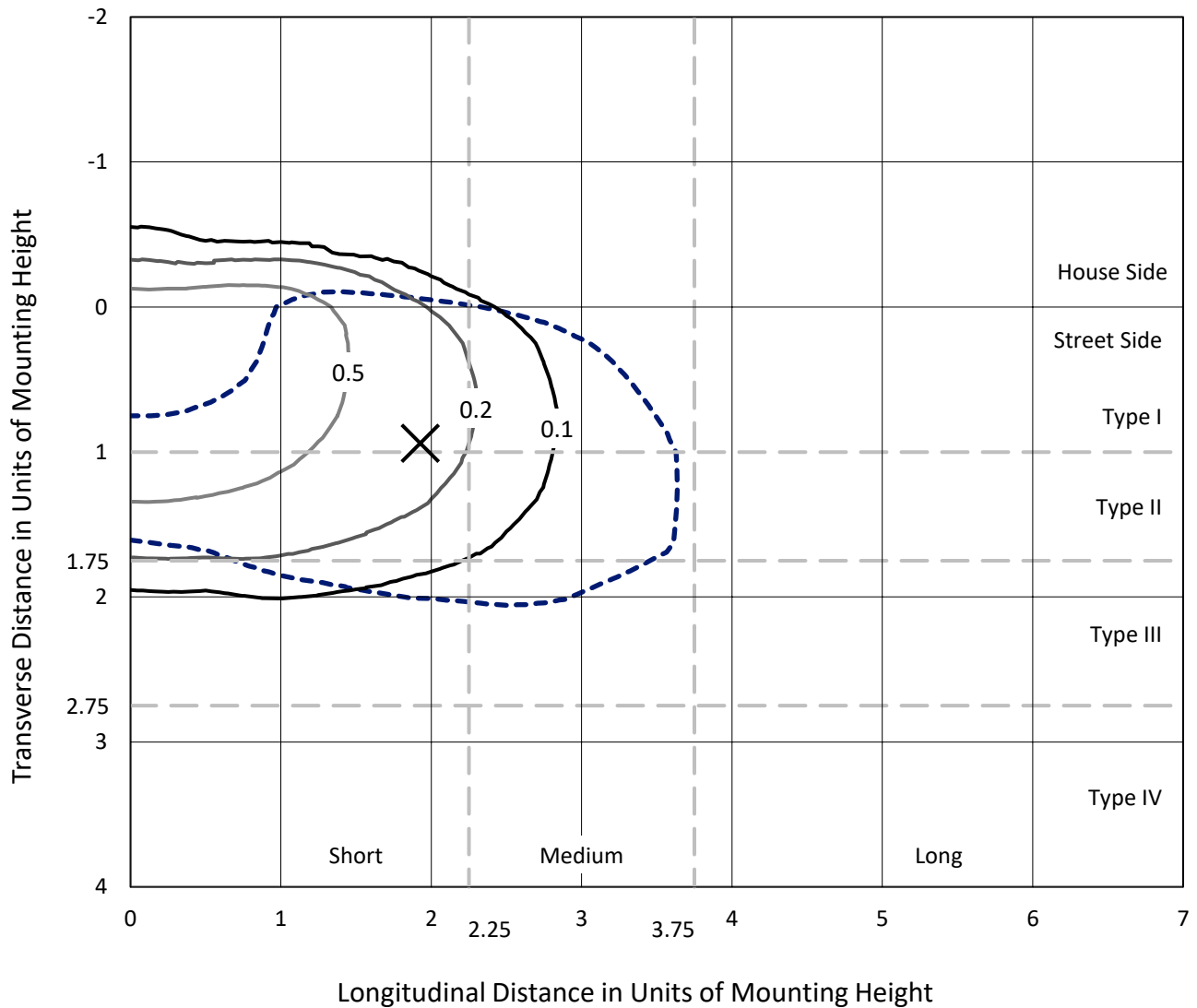
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

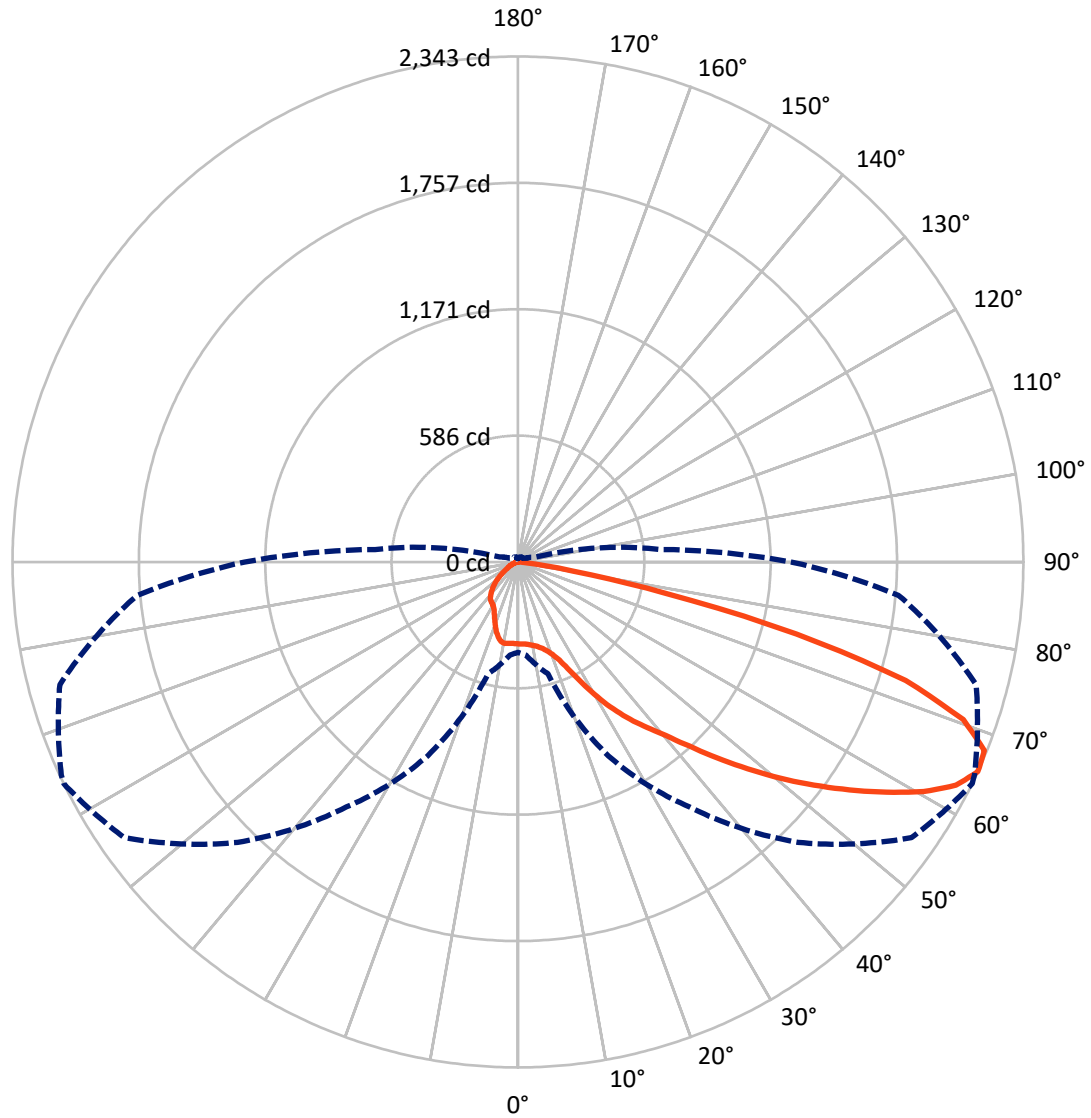
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 436.5 | 0.0 | 436.5 |
| | % Fixture | 13.4 | 0.0 | 13.4 |
| Street Side | Lumens | 2827.5 | 0.0 | 2827.5 |
| | % Fixture | 86.6 | 0.0 | 86.6 |
| Total | Lumens | 3264.0 | 0.0 | 3264.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 35.0 | 1.1 |
| 10°-20° | 95.0 | 2.9 |
| 20°-30° | 180.0 | 5.5 |
| 30°-40° | 364.3 | 11.2 |
| 40°-50° | 620.5 | 19.0 |
| 50°-60° | 843.9 | 25.9 |
| 60°-70° | 792.4 | 24.3 |
| 70°-80° | 317.5 | 9.7 |
| 80°-90° | 15.4 | 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° | 3264.0 | 100.0 |
| 0°-180° | 3264.0 | 100.0 |

Coefficient of Utilization



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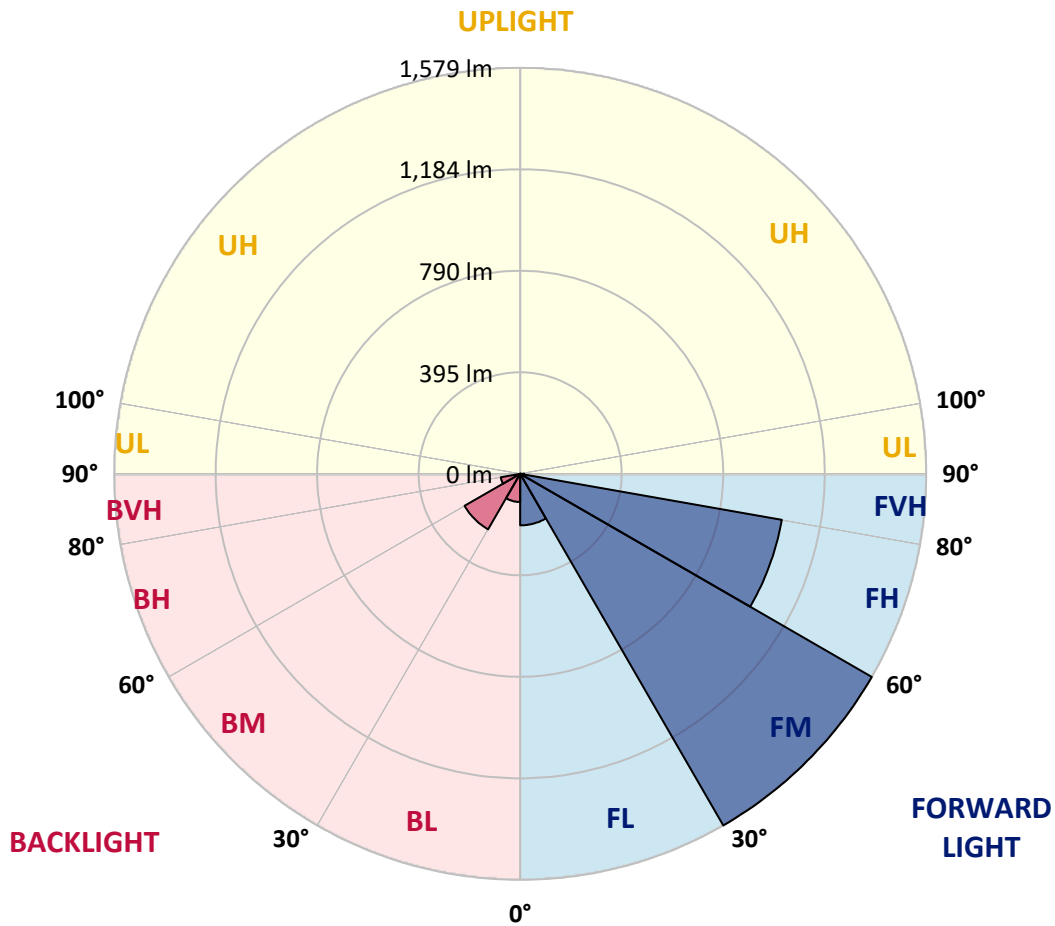
CATALOG NUMBER: GALN-SB1A-835-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 200.4 | 6.1 | | | |
| FM (30°-60°) | 1579.1 | 48.4 | | | |
| FH (60°-80°) | 1033.3 | 31.7 | | | G1/1800 |
| FVH (80°-90°) | 14.6 | 0.4 | | | G1/100 |
| BL (0°-30°) | 109.6 | 3.4 | B0/110 | | |
| BM (30°-60°) | 249.5 | 7.6 | B1/1000 | | |
| BH (60°-80°) | 76.6 | 2.3 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.8 | 0.0 | | | 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 III Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 379.6 | 379.6 | 379.6 | 379.6 | 379.6 | 379.6 | 379.6 | 379.6 | 379.6 | 379.6 |
| 2.5° | 378.3 | 380.9 | 380.3 | 379.6 | 379.4 | 379.9 | 380.1 | 379.9 | 379.9 | 379.9 |
| 5° | 371.1 | 373.3 | 373.3 | 374.8 | 377.0 | 379.6 | 381.6 | 382.0 | 382.5 | 383.1 |
| 7.5° | 357.3 | 359.1 | 360.4 | 365.4 | 370.9 | 377.9 | 383.8 | 386.9 | 387.3 | 389.7 |
| 10° | 347.9 | 350.1 | 352.3 | 357.5 | 365.4 | 375.9 | 386.0 | 393.4 | 394.5 | 400.2 |
| 12.5° | 347.5 | 349.7 | 352.5 | 358.2 | 367.4 | 378.5 | 390.8 | 401.5 | 403.5 | 411.8 |
| 15° | 352.1 | 354.7 | 357.3 | 364.3 | 374.2 | 387.7 | 400.9 | 414.2 | 416.2 | 428.0 |
| 17.5° | 361.5 | 365.0 | 366.9 | 373.9 | 384.5 | 399.5 | 416.8 | 432.2 | 433.9 | 447.7 |
| 20° | 380.1 | 384.2 | 384.9 | 390.6 | 400.9 | 417.1 | 437.6 | 456.7 | 458.8 | 474.6 |
| 22.5° | 418.6 | 424.5 | 419.2 | 422.1 | 431.3 | 447.5 | 469.8 | 493.9 | 496.9 | 514.9 |
| 25° | 486.4 | 494.7 | 481.2 | 476.4 | 480.3 | 497.1 | 525.1 | 555.6 | 559.1 | 573.5 |
| 27.5° | 619.7 | 609.0 | 588.4 | 568.3 | 556.4 | 566.1 | 597.6 | 635.2 | 639.6 | 653.6 |
| 30° | 766.1 | 756.6 | 728.9 | 684.2 | 656.2 | 654.7 | 683.8 | 725.8 | 730.8 | 744.2 |
| 32.5° | 912.7 | 903.7 | 873.5 | 818.6 | 770.0 | 745.9 | 766.1 | 812.7 | 815.3 | 823.8 |
| 35° | 1056.9 | 1047.7 | 1017.5 | 961.2 | 901.5 | 846.8 | 842.9 | 895.4 | 896.2 | 905.2 |
| 37.5° | 1201.9 | 1194.3 | 1162.1 | 1107.0 | 1048.1 | 972.6 | 936.1 | 973.7 | 974.8 | 983.6 |
| 40° | 1305.4 | 1308.7 | 1286.6 | 1243.9 | 1193.4 | 1110.9 | 1040.7 | 1057.1 | 1050.5 | 1065.2 |
| 42.5° | 1394.3 | 1400.8 | 1381.6 | 1360.1 | 1330.8 | 1258.2 | 1170.2 | 1167.4 | 1156.9 | 1164.7 |
| 45° | 1471.1 | 1476.5 | 1459.3 | 1454.2 | 1453.6 | 1402.6 | 1311.8 | 1294.7 | 1280.0 | 1278.5 |
| 47.5° | 1499.3 | 1509.8 | 1517.2 | 1534.1 | 1566.9 | 1545.5 | 1458.2 | 1431.7 | 1415.3 | 1403.2 |
| 50° | 1510.0 | 1521.2 | 1546.6 | 1595.6 | 1673.2 | 1682.4 | 1603.9 | 1574.1 | 1554.0 | 1532.1 |
| 52.5° | 1495.6 | 1515.5 | 1549.6 | 1632.1 | 1744.8 | 1792.3 | 1743.7 | 1717.7 | 1694.7 | 1659.0 |
| 55° | 1410.5 | 1430.4 | 1500.2 | 1631.7 | 1780.5 | 1869.3 | 1875.9 | 1864.3 | 1838.5 | 1782.2 |
| 57.5° | 1231.0 | 1260.6 | 1371.1 | 1576.1 | 1779.8 | 1935.6 | 2005.4 | 2013.7 | 1984.8 | 1904.3 |
| 60° | 982.5 | 1022.5 | 1157.3 | 1452.9 | 1724.9 | 1971.5 | 2119.0 | 2160.5 | 2129.9 | 2024.7 |
| 62.5° | 685.5 | 731.9 | 859.5 | 1259.9 | 1599.3 | 1945.7 | 2201.9 | 2278.7 | 2255.5 | 2132.3 |
| 65° | 418.1 | 433.0 | 535.9 | 991.4 | 1385.7 | 1837.6 | 2227.5 | 2342.6 | 2334.9 | 2198.2 |
| 67.5° | 278.5 | 291.0 | 320.6 | 679.8 | 1075.7 | 1621.6 | 2166.2 | 2331.4 | 2333.6 | 2187.5 |
| 70° | 167.8 | 178.5 | 197.8 | 395.4 | 697.1 | 1283.5 | 1976.5 | 2189.2 | 2201.9 | 2044.1 |
| 72.5° | 69.1 | 76.4 | 93.9 | 179.2 | 361.0 | 814.6 | 1573.9 | 1879.6 | 1909.1 | 1718.8 |
| 75° | 39.2 | 42.9 | 55.1 | 89.9 | 156.7 | 379.6 | 953.4 | 1334.3 | 1377.9 | 1184.6 |
| 77.5° | 26.0 | 27.8 | 35.7 | 58.2 | 88.2 | 129.5 | 407.4 | 695.2 | 778.3 | 647.0 |
| 80° | 17.5 | 19.0 | 24.5 | 38.9 | 57.3 | 55.6 | 129.8 | 257.5 | 316.8 | 222.3 |
| 82.5° | 11.8 | 12.0 | 17.5 | 25.6 | 36.3 | 26.9 | 38.3 | 80.1 | 100.7 | 64.3 |
| 85° | 6.8 | 6.6 | 12.9 | 14.9 | 16.2 | 11.2 | 11.6 | 24.1 | 31.5 | 27.1 |
| 87.5° | 0.9 | 1.3 | 5.0 | 3.9 | 2.2 | 2.4 | 2.4 | 4.2 | 6.1 | 6.6 |
| 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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CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 379.6 | 0° | 379.6 | 379.6 | 379.6 | 379.6 | 379.6 | 379.6 | 379.6 | 379.6 | 379.6 | 379.6 |
| 380.1 | 2.5° | 380.1 | 379.9 | 379.2 | 378.5 | 377.0 | 376.1 | 376.6 | 376.1 | 375.9 | 376.1 |
| 382.9 | 5° | 382.9 | 382.3 | 380.5 | 378.3 | 375.3 | 371.5 | 369.1 | 365.6 | 362.4 | 360.4 |
| 390.6 | 7.5° | 390.6 | 389.9 | 387.5 | 381.4 | 371.5 | 356.0 | 341.8 | 329.3 | 319.9 | 314.4 |
| 402.8 | 10° | 402.8 | 401.7 | 398.0 | 384.5 | 358.6 | 324.7 | 296.5 | 273.1 | 257.8 | 250.5 |
| 417.3 | 12.5° | 417.3 | 416.0 | 409.4 | 381.6 | 334.1 | 281.2 | 242.2 | 216.2 | 202.0 | 195.6 |
| 433.9 | 15° | 434.3 | 432.6 | 419.7 | 368.0 | 298.5 | 233.0 | 197.4 | 177.9 | 168.7 | 163.0 |
| 455.1 | 17.5° | 455.6 | 452.5 | 427.3 | 347.7 | 259.7 | 196.3 | 169.8 | 155.1 | 147.0 | 141.6 |
| 482.9 | 20° | 483.1 | 478.1 | 433.5 | 323.4 | 224.1 | 173.1 | 151.2 | 138.9 | 132.8 | 128.0 |
| 522.3 | 22.5° | 521.6 | 514.4 | 440.9 | 297.1 | 198.9 | 157.1 | 137.4 | 128.4 | 123.4 | 117.9 |
| 577.2 | 25° | 569.3 | 560.8 | 450.1 | 272.9 | 181.6 | 143.3 | 127.3 | 119.9 | 114.0 | 107.7 |
| 649.2 | 27.5° | 636.1 | 620.8 | 461.0 | 252.9 | 166.7 | 131.5 | 118.2 | 109.8 | 103.1 | 97.8 |
| 730.8 | 30° | 710.5 | 685.3 | 470.7 | 240.9 | 153.2 | 120.6 | 106.1 | 97.8 | 91.5 | 87.7 |
| 804.1 | 32.5° | 780.9 | 746.8 | 477.0 | 235.7 | 140.9 | 108.1 | 93.0 | 84.0 | 79.2 | 78.1 |
| 875.9 | 35° | 847.5 | 802.4 | 476.4 | 230.6 | 130.0 | 95.6 | 80.1 | 70.9 | 67.2 | 67.8 |
| 953.1 | 37.5° | 924.0 | 861.7 | 471.8 | 222.7 | 121.0 | 84.2 | 68.9 | 60.8 | 57.5 | 57.8 |
| 1047.0 | 40° | 1013.1 | 930.2 | 468.9 | 207.9 | 111.2 | 73.7 | 59.7 | 53.2 | 50.8 | 49.9 |
| 1145.9 | 42.5° | 1108.1 | 996.5 | 469.3 | 191.0 | 98.9 | 64.3 | 53.4 | 47.9 | 45.7 | 45.1 |
| 1256.0 | 45° | 1203.5 | 1059.7 | 470.0 | 173.5 | 86.0 | 57.1 | 48.8 | 44.2 | 42.9 | 42.0 |
| 1367.6 | 47.5° | 1293.2 | 1113.5 | 457.8 | 154.7 | 73.3 | 51.6 | 45.1 | 42.0 | 40.9 | 39.8 |
| 1479.6 | 50° | 1376.8 | 1149.4 | 428.2 | 132.8 | 63.2 | 47.3 | 42.2 | 40.0 | 38.9 | 37.9 |
| 1581.1 | 52.5° | 1441.7 | 1155.1 | 379.4 | 110.3 | 56.2 | 44.0 | 40.5 | 38.5 | 37.2 | 36.1 |
| 1663.2 | 55° | 1470.6 | 1119.4 | 310.1 | 89.3 | 50.8 | 41.1 | 38.7 | 36.8 | 35.2 | 34.1 |
| 1727.7 | 57.5° | 1463.2 | 1044.4 | 241.8 | 71.8 | 45.5 | 38.3 | 36.5 | 35.2 | 33.5 | 31.7 |
| 1780.0 | 60° | 1426.6 | 944.0 | 182.3 | 59.7 | 40.7 | 35.2 | 34.1 | 33.0 | 30.6 | 28.0 |
| 1800.2 | 62.5° | 1363.4 | 817.7 | 130.0 | 49.5 | 35.4 | 31.7 | 31.3 | 30.4 | 26.9 | 22.1 |
| 1770.4 | 65° | 1266.7 | 664.3 | 87.5 | 41.1 | 30.4 | 27.8 | 28.0 | 26.5 | 21.9 | 16.4 |
| 1661.4 | 67.5° | 1125.3 | 485.8 | 56.0 | 33.7 | 25.4 | 23.2 | 23.4 | 22.5 | 18.6 | 14.0 |
| 1454.9 | 70° | 945.3 | 321.7 | 36.5 | 25.6 | 20.3 | 17.9 | 19.3 | 19.5 | 15.8 | 11.4 |
| 1116.6 | 72.5° | 693.0 | 189.9 | 25.6 | 19.0 | 14.9 | 12.5 | 15.8 | 16.2 | 12.7 | 8.5 |
| 671.7 | 75° | 395.0 | 90.2 | 19.3 | 13.8 | 9.2 | 8.8 | 12.3 | 12.3 | 8.8 | 5.7 |
| 290.8 | 77.5° | 165.9 | 37.6 | 13.6 | 9.0 | 5.3 | 5.0 | 8.3 | 7.7 | 4.4 | 2.6 |
| 70.9 | 80° | 47.9 | 16.8 | 7.2 | 4.4 | 2.2 | 2.0 | 3.3 | 2.4 | 1.1 | 0.4 |
| 26.9 | 82.5° | 18.8 | 7.4 | 2.8 | 1.8 | 0.9 | 0.9 | 0.4 | 0.0 | 0.0 | 0.0 |
| 15.3 | 85° | 11.2 | 3.1 | 1.3 | 0.7 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3.3 | 87.5° | 2.8 | 0.7 | 0.4 | 0.0 | 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 |

(END O

| |
|-------------|
| <u>180°</u> |
| 379.6 |
| 377.0 |
| 360.8 |
| 314.7 |
| 249.9 |
| 195.0 |
| 163.2 |
| 141.1 |
| 127.1 |
| 117.1 |
| 107.0 |
| 96.7 |
| 87.1 |
| 78.8 |
| 67.8 |
| 58.6 |
| 49.7 |
| 44.9 |
| 42.0 |
| 39.8 |
| 37.9 |
| 35.9 |
| 33.9 |
| 31.5 |
| 27.6 |
| 21.7 |
| 16.0 |
| 13.3 |
| 10.9 |
| 8.1 |
| 5.3 |
| 2.6 |
| 0.4 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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