

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: P944973

Luminaire Tested: **GALN-SB1A-760-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944973
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-760-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3952 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

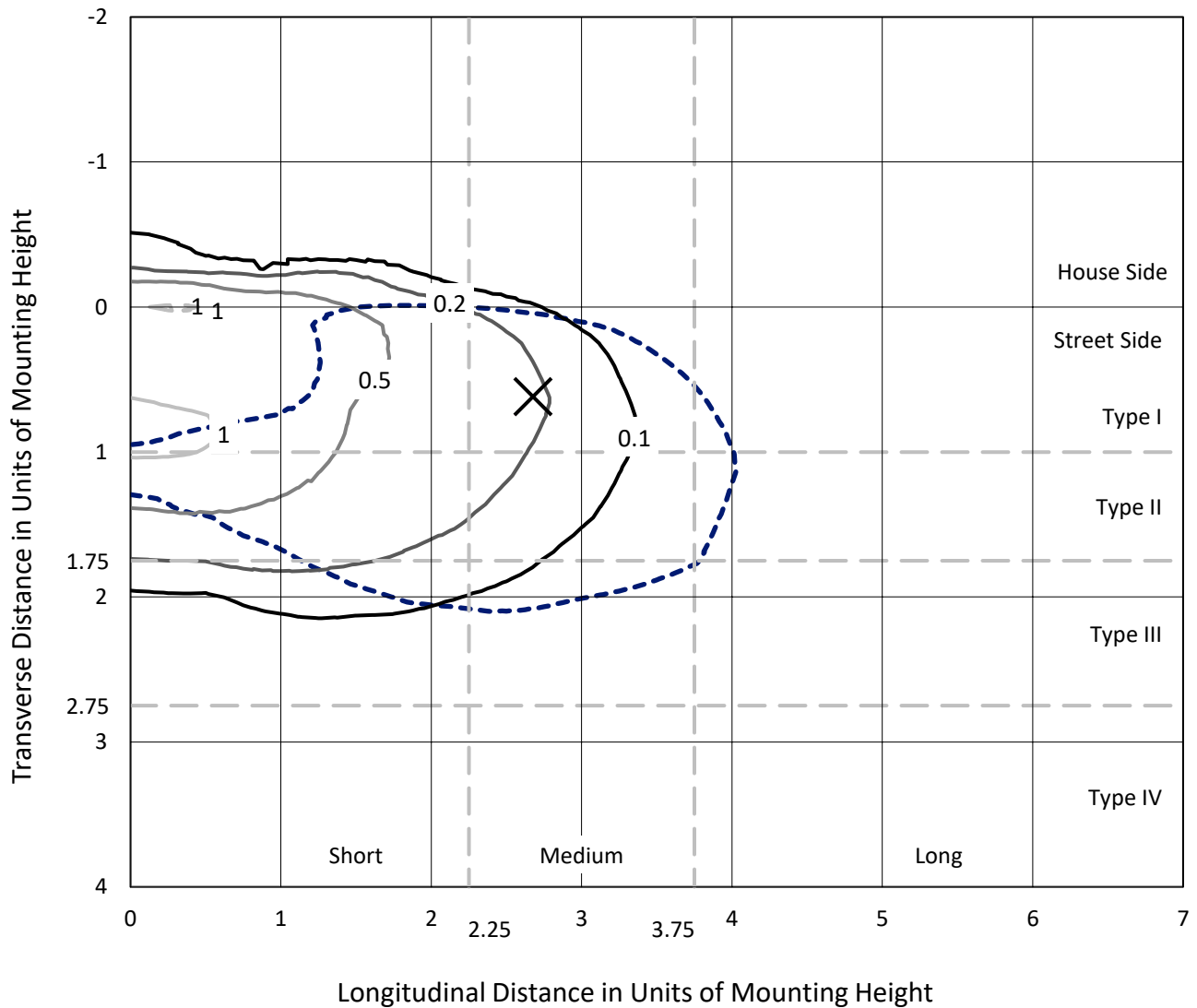
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

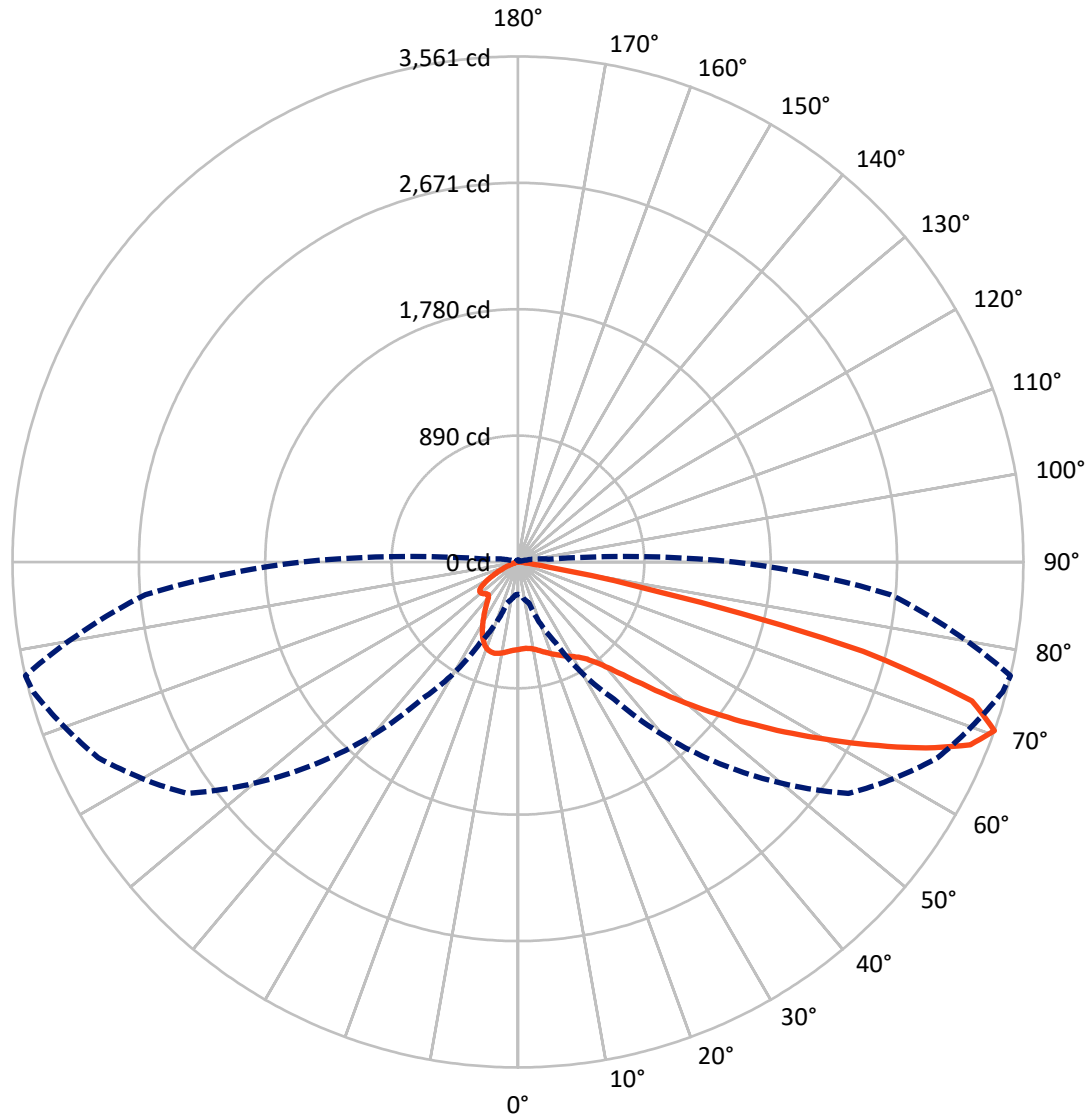
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 416.6 | 0.0 | 416.6 |
| | % Fixture | 10.5 | 0.0 | 10.5 |
| Street Side | Lumens | 3535.4 | 0.0 | 3535.4 |
| | % Fixture | 89.5 | 0.0 | 89.5 |
| Total | Lumens | 3952.0 | 0.0 | 3952.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 53.1 | 1.3 |
| 10°-20° | 126.1 | 3.2 |
| 20°-30° | 195.1 | 4.9 |
| 30°-40° | 354.0 | 9.0 |
| 40°-50° | 668.2 | 16.9 |
| 50°-60° | 965.4 | 24.4 |
| 60°-70° | 1027.7 | 26.0 |
| 70°-80° | 544.6 | 13.8 |
| 80°-90° | 17.9 | 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° | 3952.0 | 100.0 |
| 0°-180° | 3952.0 | 100.0 |

Coefficient of Utilization



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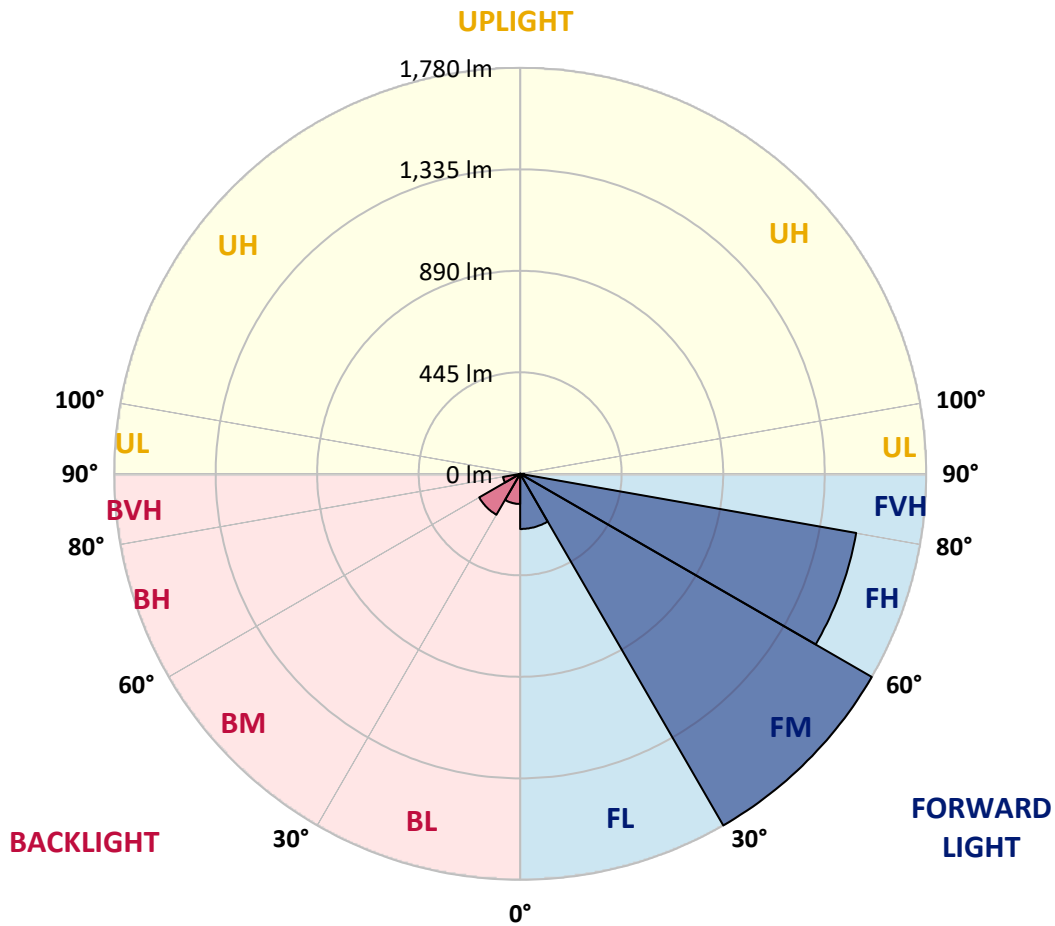
CATALOG NUMBER: GALN-SB1A-760-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 242.0 | 6.1 | | | |
| FM (30°-60°) | 1780.2 | 45.0 | | | |
| FH (60°-80°) | 1495.9 | 37.9 | | | G1/1800 |
| FVH (80°-90°) | 17.4 | 0.4 | | | G1/100 |
| BL (0°-30°) | 132.4 | 3.3 | B1/500 | | |
| BM (30°-60°) | 207.4 | 5.2 | B0/220 | | |
| BH (60°-80°) | 76.4 | 1.9 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.5 | 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 Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 616.4 | 616.4 | 616.4 | 616.4 | 616.4 | 616.4 | 616.4 | 616.4 | 616.4 | 616.4 |
| 2.5° | 578.8 | 584.0 | 583.2 | 586.7 | 588.0 | 593.0 | 598.0 | 604.7 | 612.2 | 611.9 |
| 5° | 546.1 | 551.3 | 552.6 | 557.3 | 563.3 | 571.0 | 581.3 | 594.7 | 608.7 | 611.0 |
| 7.5° | 507.4 | 512.9 | 516.1 | 525.6 | 536.6 | 552.6 | 569.3 | 589.0 | 612.2 | 615.4 |
| 10° | 468.7 | 473.7 | 477.9 | 491.4 | 508.9 | 532.6 | 559.8 | 588.2 | 619.4 | 624.2 |
| 12.5° | 444.7 | 449.5 | 454.2 | 465.9 | 487.7 | 516.6 | 553.5 | 591.7 | 631.4 | 638.2 |
| 15° | 436.3 | 440.5 | 444.2 | 454.7 | 474.9 | 507.9 | 552.3 | 599.0 | 646.6 | 655.6 |
| 17.5° | 437.5 | 439.7 | 442.2 | 450.2 | 469.9 | 503.9 | 554.5 | 611.4 | 664.6 | 672.6 |
| 20° | 444.7 | 446.0 | 446.2 | 451.7 | 469.2 | 503.4 | 559.0 | 623.4 | 681.6 | 692.3 |
| 22.5° | 454.0 | 454.5 | 454.0 | 457.7 | 473.9 | 507.1 | 565.0 | 637.9 | 700.5 | 710.5 |
| 25° | 497.1 | 487.7 | 475.7 | 468.4 | 481.9 | 514.4 | 574.0 | 657.4 | 721.3 | 731.0 |
| 27.5° | 631.2 | 604.0 | 561.0 | 512.9 | 498.4 | 524.8 | 586.5 | 677.1 | 742.2 | 751.0 |
| 30° | 848.8 | 813.1 | 740.2 | 631.7 | 551.3 | 546.8 | 602.7 | 696.8 | 764.4 | 773.9 |
| 32.5° | 1066.9 | 1058.2 | 974.1 | 823.8 | 670.3 | 595.7 | 629.7 | 723.5 | 793.9 | 801.4 |
| 35° | 1287.5 | 1269.8 | 1200.9 | 1052.4 | 853.8 | 695.3 | 674.6 | 758.4 | 832.6 | 841.1 |
| 37.5° | 1456.5 | 1445.8 | 1403.1 | 1280.8 | 1071.4 | 849.0 | 751.5 | 812.6 | 888.7 | 898.2 |
| 40° | 1605.7 | 1600.7 | 1586.3 | 1505.7 | 1314.7 | 1050.2 | 871.0 | 896.5 | 966.6 | 977.8 |
| 42.5° | 1723.0 | 1734.8 | 1743.0 | 1720.5 | 1565.6 | 1279.8 | 1031.7 | 1014.3 | 1075.2 | 1086.6 |
| 45° | 1843.1 | 1847.1 | 1880.3 | 1912.7 | 1814.6 | 1519.9 | 1212.9 | 1152.3 | 1210.2 | 1224.4 |
| 47.5° | 1920.2 | 1936.2 | 1994.6 | 2051.7 | 2024.0 | 1758.0 | 1407.6 | 1315.2 | 1366.7 | 1393.4 |
| 50° | 1925.9 | 1956.1 | 2036.5 | 2136.1 | 2176.5 | 1984.6 | 1619.2 | 1500.9 | 1555.6 | 1585.0 |
| 52.5° | 1830.4 | 1877.3 | 2001.8 | 2147.6 | 2258.9 | 2176.5 | 1838.1 | 1686.6 | 1756.7 | 1795.2 |
| 55° | 1403.3 | 1464.7 | 1871.3 | 2085.2 | 2262.1 | 2322.0 | 2051.2 | 1880.0 | 1980.8 | 2024.3 |
| 57.5° | 1222.6 | 1253.6 | 1471.2 | 1976.9 | 2202.0 | 2380.7 | 2243.9 | 2064.2 | 2224.7 | 2278.6 |
| 60° | 1017.3 | 1057.9 | 1233.9 | 1799.7 | 2120.4 | 2386.4 | 2414.1 | 2301.8 | 2489.0 | 2549.6 |
| 62.5° | 691.3 | 735.5 | 910.4 | 1495.2 | 2008.8 | 2383.7 | 2553.6 | 2546.4 | 2782.7 | 2847.9 |
| 65° | 428.3 | 456.0 | 571.3 | 1220.9 | 1852.8 | 2386.6 | 2699.6 | 2843.4 | 3092.7 | 3158.8 |
| 67.5° | 338.4 | 351.1 | 411.3 | 937.4 | 1584.0 | 2319.3 | 2845.4 | 3122.6 | 3384.4 | 3436.8 |
| 70° | 227.4 | 235.1 | 299.2 | 628.4 | 1178.5 | 2008.3 | 2842.6 | 3262.9 | 3534.7 | 3560.9 |
| 72.5° | 119.8 | 125.8 | 174.9 | 291.0 | 711.8 | 1427.5 | 2396.1 | 3095.2 | 3385.2 | 3345.8 |
| 75° | 59.9 | 69.9 | 117.8 | 147.7 | 304.0 | 796.1 | 1487.9 | 2440.3 | 2664.4 | 2511.7 |
| 77.5° | 45.4 | 54.9 | 97.3 | 97.3 | 105.8 | 268.0 | 630.2 | 1331.0 | 1227.6 | 1022.2 |
| 80° | 29.0 | 37.4 | 85.1 | 73.6 | 44.2 | 68.1 | 164.2 | 372.9 | 260.8 | 198.4 |
| 82.5° | 17.0 | 24.5 | 70.9 | 48.7 | 24.7 | 25.2 | 46.4 | 79.4 | 67.6 | 52.7 |
| 85° | 6.7 | 16.0 | 48.7 | 19.2 | 9.7 | 6.2 | 14.0 | 17.0 | 14.0 | 10.5 |
| 87.5° | 0.0 | 3.7 | 8.5 | 0.0 | 0.7 | 0.5 | 1.0 | 1.2 | 1.2 | 1.0 |
| 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° |
|--------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 616.4 | 0° | 616.4 | 616.4 | 616.4 | 616.4 | 616.4 | 616.4 | 616.4 | 616.4 | 616.4 | 616.4 |
| 616.9 | 2.5° | 619.2 | 619.7 | 621.2 | 621.4 | 617.9 | 613.4 | 611.7 | 611.0 | 608.0 | 607.7 |
| 620.9 | 5° | 626.7 | 628.9 | 626.7 | 620.2 | 604.7 | 583.0 | 566.5 | 553.0 | 540.8 | 537.1 |
| 634.7 | 7.5° | 641.6 | 643.9 | 637.2 | 611.7 | 572.8 | 529.6 | 490.7 | 463.2 | 438.5 | 429.3 |
| 651.4 | 10° | 663.1 | 666.1 | 644.9 | 593.5 | 524.6 | 455.2 | 389.3 | 342.9 | 306.7 | 292.0 |
| 674.1 | 12.5° | 690.1 | 691.3 | 649.1 | 565.8 | 462.0 | 362.9 | 269.5 | 219.9 | 187.7 | 175.7 |
| 701.5 | 15° | 719.8 | 718.0 | 649.6 | 528.1 | 376.6 | 256.6 | 175.9 | 144.5 | 131.5 | 127.5 |
| 729.0 | 17.5° | 751.0 | 743.7 | 639.7 | 473.7 | 283.0 | 175.4 | 130.5 | 123.0 | 120.8 | 119.8 |
| 756.2 | 20° | 781.7 | 765.4 | 621.4 | 402.6 | 203.2 | 131.0 | 118.5 | 116.3 | 115.1 | 114.6 |
| 783.7 | 22.5° | 809.6 | 781.9 | 590.2 | 320.0 | 147.5 | 115.8 | 112.1 | 110.1 | 107.8 | 106.8 |
| 810.4 | 25° | 836.8 | 791.4 | 546.3 | 242.8 | 118.0 | 108.3 | 105.3 | 101.6 | 98.6 | 97.3 |
| 839.1 | 27.5° | 863.3 | 797.4 | 491.4 | 179.7 | 105.3 | 101.3 | 95.8 | 90.6 | 88.3 | 87.8 |
| 869.8 | 30° | 891.5 | 799.4 | 429.0 | 134.0 | 97.6 | 92.6 | 84.6 | 78.6 | 77.4 | 77.6 |
| 911.2 | 32.5° | 925.9 | 802.4 | 366.1 | 109.8 | 91.1 | 82.1 | 72.6 | 66.4 | 65.4 | 66.4 |
| 971.6 | 35° | 967.1 | 808.4 | 305.5 | 101.1 | 85.4 | 71.4 | 61.1 | 55.9 | 54.9 | 55.7 |
| 1048.9 | 37.5° | 1023.0 | 818.1 | 248.8 | 99.3 | 80.6 | 62.4 | 51.4 | 47.2 | 47.2 | 47.4 |
| 1143.8 | 40° | 1097.4 | 844.0 | 198.2 | 98.1 | 78.1 | 55.7 | 43.4 | 41.7 | 42.4 | 42.9 |
| 1264.6 | 42.5° | 1188.0 | 899.2 | 164.0 | 96.6 | 75.4 | 52.7 | 39.4 | 38.7 | 39.9 | 40.4 |
| 1409.3 | 45° | 1289.5 | 969.1 | 152.0 | 94.1 | 72.9 | 54.7 | 37.7 | 36.7 | 38.2 | 38.4 |
| 1571.5 | 47.5° | 1394.6 | 1037.5 | 150.5 | 91.3 | 70.4 | 57.7 | 37.2 | 34.9 | 36.7 | 36.9 |
| 1744.8 | 50° | 1500.9 | 1082.1 | 152.0 | 87.1 | 66.4 | 57.7 | 37.4 | 33.2 | 34.7 | 35.4 |
| 1924.4 | 52.5° | 1608.0 | 1102.6 | 151.0 | 77.9 | 59.4 | 54.2 | 37.4 | 31.7 | 33.2 | 33.7 |
| 2118.6 | 55° | 1711.8 | 1098.6 | 135.8 | 64.1 | 50.4 | 47.9 | 36.4 | 30.4 | 31.4 | 31.7 |
| 2302.0 | 57.5° | 1793.9 | 1043.0 | 107.6 | 49.9 | 40.9 | 39.9 | 33.2 | 29.0 | 29.7 | 29.4 |
| 2470.3 | 60° | 1836.8 | 920.7 | 76.9 | 38.4 | 32.2 | 31.4 | 29.2 | 27.0 | 27.5 | 26.2 |
| 2612.8 | 62.5° | 1837.3 | 758.9 | 51.4 | 30.4 | 25.7 | 25.0 | 25.0 | 24.2 | 23.7 | 21.2 |
| 2723.1 | 65° | 1798.2 | 579.5 | 34.2 | 24.2 | 20.7 | 19.5 | 21.0 | 20.7 | 19.0 | 15.5 |
| 2756.8 | 67.5° | 1709.3 | 379.8 | 26.0 | 19.0 | 16.0 | 15.2 | 16.7 | 17.5 | 16.2 | 13.0 |
| 2634.0 | 70° | 1526.6 | 221.1 | 21.5 | 14.7 | 12.0 | 11.2 | 13.5 | 15.0 | 13.5 | 10.5 |
| 2251.4 | 72.5° | 1268.1 | 119.3 | 17.5 | 11.0 | 8.2 | 7.5 | 10.7 | 12.2 | 10.7 | 7.7 |
| 1444.5 | 75° | 822.8 | 63.9 | 13.5 | 7.2 | 4.2 | 4.7 | 8.0 | 9.0 | 7.5 | 5.0 |
| 424.0 | 77.5° | 276.3 | 28.2 | 8.5 | 3.5 | 2.0 | 2.0 | 4.7 | 5.5 | 3.5 | 1.7 |
| 77.1 | 80° | 61.6 | 11.7 | 3.5 | 1.5 | 0.7 | 0.7 | 1.0 | 1.0 | 0.5 | 0.0 |
| 23.7 | 82.5° | 20.2 | 4.7 | 1.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 6.0 | 85° | 7.7 | 1.7 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2.0 | 87.5° | 3.0 | 0.2 | 0.0 | 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 |

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| |
|-------------|
| <u>180°</u> |
| 616.4 |
| 608.2 |
| 534.8 |
| 425.5 |
| 285.8 |
| 172.0 |
| 127.5 |
| 119.5 |
| 114.1 |
| 106.6 |
| 96.8 |
| 87.3 |
| 77.6 |
| 66.1 |
| 55.4 |
| 47.2 |
| 42.9 |
| 40.4 |
| 38.7 |
| 37.2 |
| 35.7 |
| 33.7 |
| 31.7 |
| 29.4 |
| 26.0 |
| 20.5 |
| 15.0 |
| 12.7 |
| 10.0 |
| 7.5 |
| 4.5 |
| 1.5 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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