

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: P938772

Luminaire Tested: **GALN-SB1A-760-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938772
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
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-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4706 lumens
Efficiency: N/A
Efficacy: 152.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

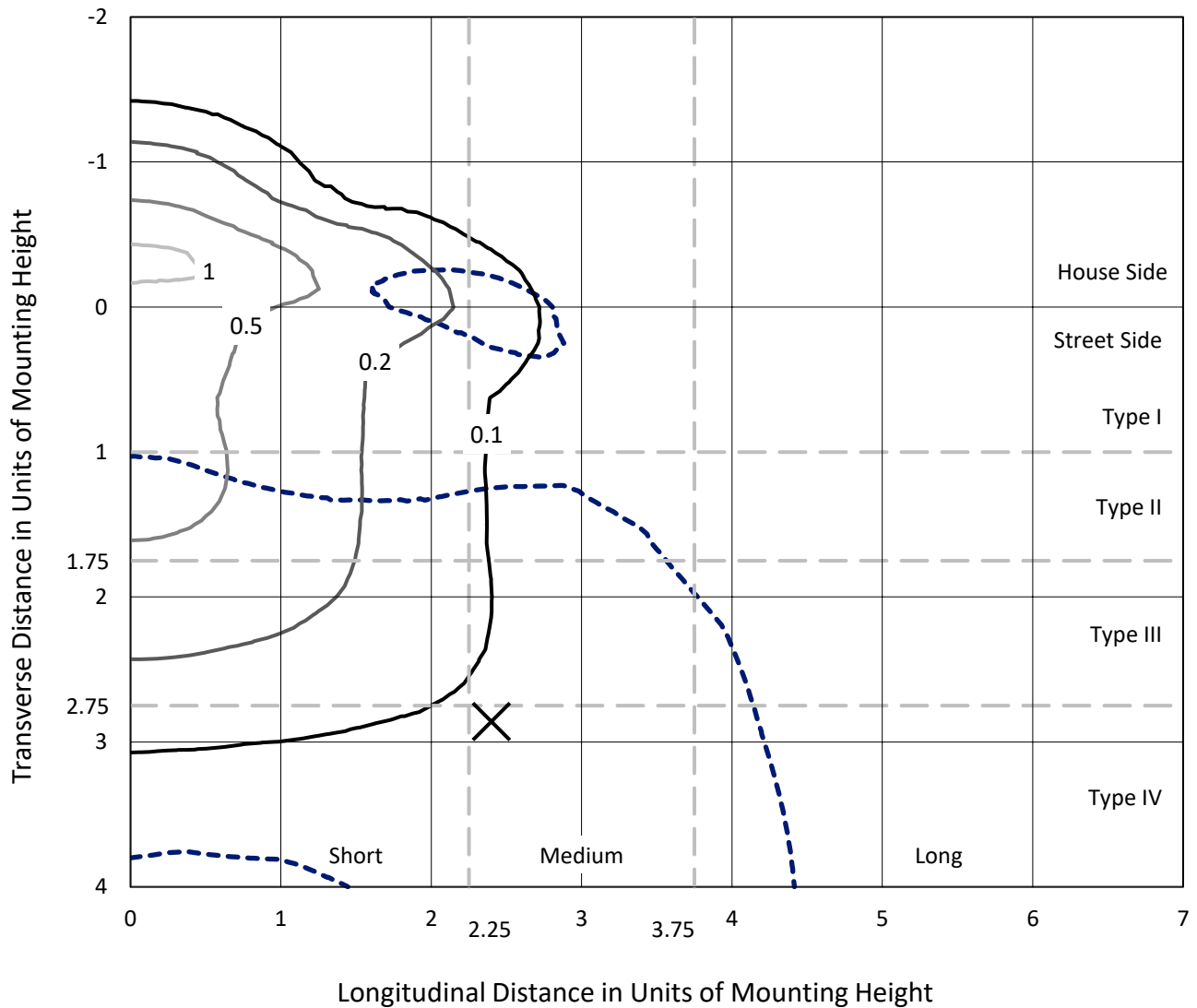
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

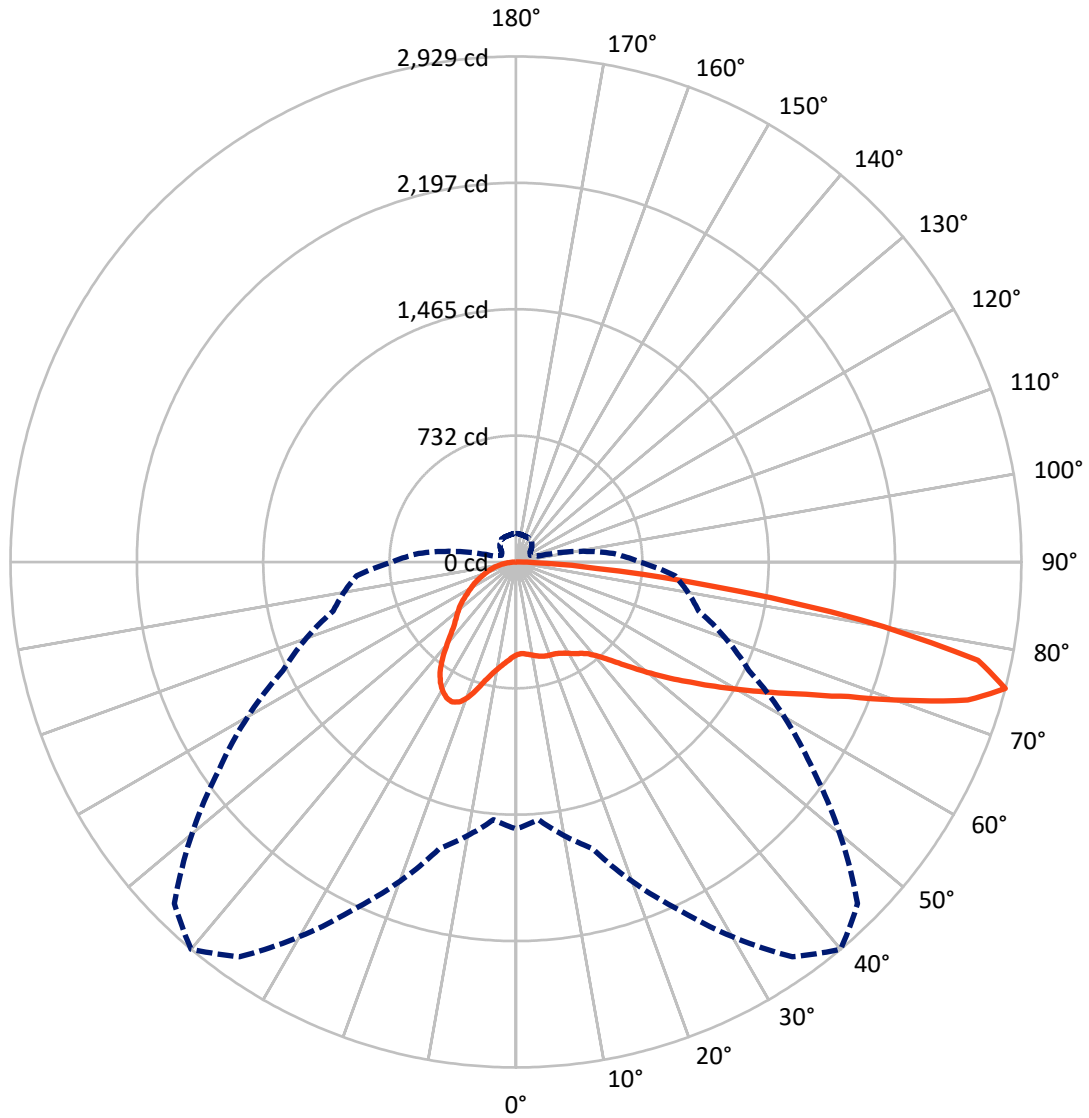
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1458.1 | 0.0 | 1458.1 |
| | % Fixture | 31.0 | 0.0 | 31.0 |
| Street Side | Lumens | 3247.9 | 0.0 | 3247.9 |
| | % Fixture | 69.0 | 0.0 | 69.0 |
| Total | Lumens | 4706.0 | 0.0 | 4706.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 53.7 | 1.1 |
| 10°-20° | 180.4 | 3.8 |
| 20°-30° | 329.3 | 7.0 |
| 30°-40° | 467.0 | 9.9 |
| 40°-50° | 630.7 | 13.4 |
| 50°-60° | 848.4 | 18.0 |
| 60°-70° | 1076.8 | 22.9 |
| 70°-80° | 977.3 | 20.8 |
| 80°-90° | 142.5 | 3.0 |
| 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° | 4706.0 | 100.0 |
| 0°-180° | 4706.0 | 100.0 |

Coefficient of Utilization



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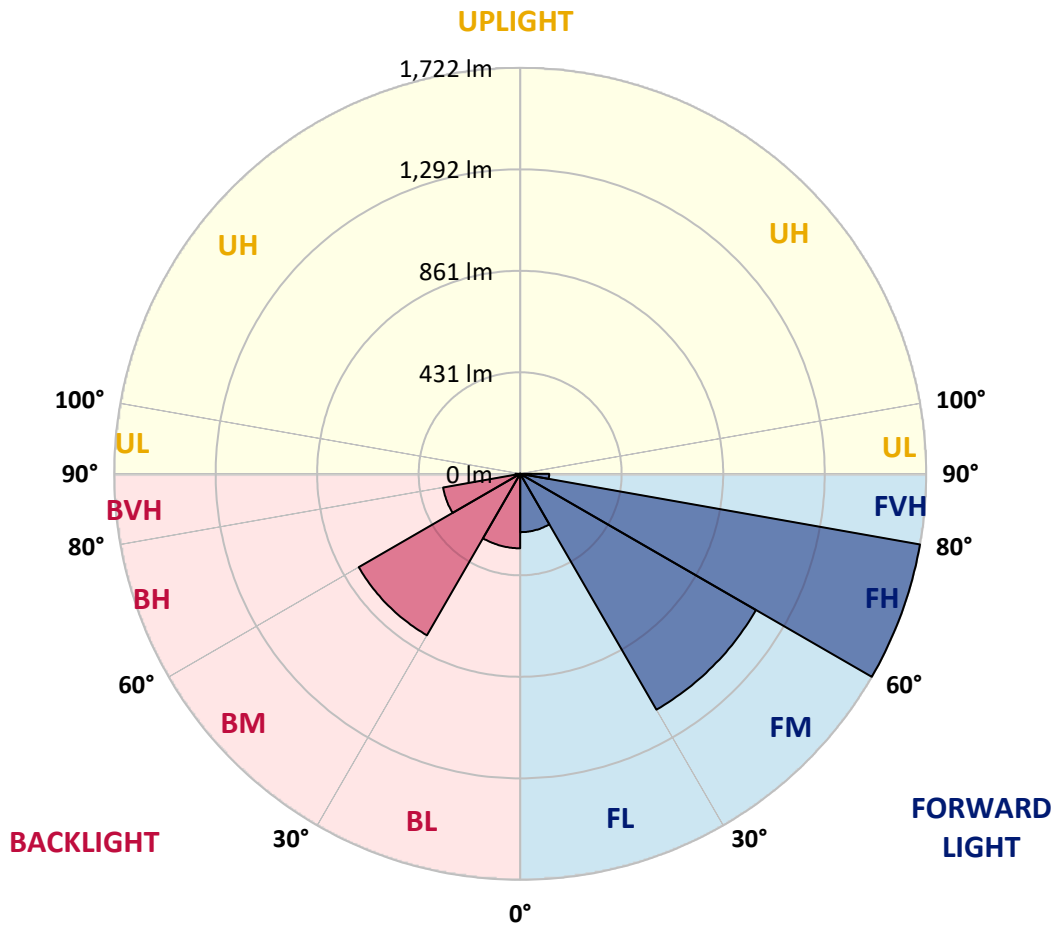
CATALOG NUMBER: GALN-SB1A-760-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 247.5 | 5.3 | | | |
| FM (30°-60°) | 1155.2 | 24.5 | | | |
| FH (60°-80°) | 1722.3 | 36.6 | | | G1/1800 |
| FVH (80°-90°) | 122.8 | 2.6 | | | G2/225 |
| BL (0°-30°) | 315.8 | 6.7 | B1/500 | | |
| BM (30°-60°) | 790.9 | 16.8 | B1/1000 | | |
| BH (60°-80°) | 331.8 | 7.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 19.6 | 0.4 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 40° | 45° | 55° | 65° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 538.1 | 538.1 | 538.1 | 538.1 | 538.1 | 538.1 | 538.1 | 538.1 | 538.1 | 538.1 |
| 2.5° | 529.9 | 532.9 | 532.1 | 531.1 | 531.1 | 531.4 | 531.1 | 532.9 | 534.6 | 536.4 |
| 5° | 535.4 | 538.4 | 536.9 | 535.6 | 534.6 | 534.4 | 533.6 | 533.4 | 534.4 | 536.6 |
| 7.5° | 546.1 | 549.1 | 546.9 | 544.6 | 542.6 | 541.6 | 540.6 | 539.1 | 538.4 | 539.6 |
| 10° | 558.1 | 561.1 | 558.4 | 554.4 | 551.1 | 549.9 | 548.9 | 547.4 | 546.4 | 547.1 |
| 12.5° | 570.1 | 573.1 | 569.3 | 563.8 | 559.6 | 558.9 | 557.6 | 557.1 | 556.9 | 556.6 |
| 15° | 581.3 | 583.8 | 579.1 | 572.6 | 568.1 | 566.8 | 565.6 | 566.3 | 567.6 | 569.1 |
| 17.5° | 590.1 | 592.6 | 585.6 | 577.1 | 572.8 | 572.3 | 571.6 | 574.1 | 577.6 | 581.3 |
| 20° | 598.0 | 600.5 | 591.6 | 580.1 | 575.1 | 575.1 | 575.3 | 580.6 | 585.6 | 591.1 |
| 22.5° | 609.3 | 611.3 | 600.3 | 584.6 | 577.3 | 577.8 | 579.8 | 585.1 | 591.3 | 598.8 |
| 25° | 626.0 | 627.5 | 614.0 | 593.0 | 584.8 | 586.3 | 588.1 | 590.6 | 596.5 | 605.3 |
| 27.5° | 653.0 | 654.2 | 636.5 | 608.0 | 595.5 | 598.0 | 600.5 | 598.8 | 601.5 | 609.0 |
| 30° | 690.9 | 691.6 | 669.2 | 631.5 | 613.8 | 615.0 | 615.5 | 608.3 | 603.0 | 609.0 |
| 32.5° | 735.8 | 735.6 | 708.9 | 659.9 | 634.5 | 633.2 | 629.0 | 614.8 | 602.5 | 607.8 |
| 35° | 805.5 | 802.7 | 768.3 | 699.9 | 657.9 | 650.2 | 640.2 | 622.0 | 605.0 | 606.5 |
| 37.5° | 920.8 | 912.3 | 864.6 | 765.3 | 692.9 | 673.2 | 658.4 | 633.7 | 610.5 | 606.0 |
| 40° | 1050.8 | 1040.1 | 987.7 | 854.9 | 745.3 | 713.6 | 689.9 | 650.5 | 619.5 | 608.3 |
| 42.5° | 1205.1 | 1189.8 | 1133.4 | 960.5 | 811.7 | 765.8 | 730.1 | 671.7 | 632.7 | 615.5 |
| 45° | 1394.5 | 1374.3 | 1294.4 | 1079.5 | 895.3 | 834.2 | 786.5 | 703.9 | 653.0 | 629.5 |
| 47.5° | 1586.0 | 1590.9 | 1477.4 | 1215.8 | 995.7 | 918.5 | 857.1 | 752.3 | 682.4 | 652.0 |
| 50° | 1789.4 | 1792.9 | 1659.3 | 1366.8 | 1109.5 | 1013.9 | 936.5 | 806.5 | 723.3 | 683.9 |
| 52.5° | 1948.1 | 1948.6 | 1824.6 | 1524.8 | 1228.0 | 1118.7 | 1022.1 | 868.4 | 770.8 | 726.3 |
| 55° | 2047.5 | 2046.2 | 1940.4 | 1674.3 | 1364.3 | 1228.8 | 1117.0 | 938.7 | 828.7 | 776.3 |
| 57.5° | 2119.6 | 2115.9 | 2020.3 | 1802.9 | 1509.6 | 1358.8 | 1224.3 | 1018.6 | 897.1 | 835.7 |
| 60° | 2147.1 | 2144.8 | 2074.4 | 1913.9 | 1662.3 | 1502.6 | 1348.1 | 1108.0 | 974.7 | 905.8 |
| 62.5° | 2157.5 | 2161.8 | 2127.6 | 2021.5 | 1825.8 | 1661.8 | 1484.1 | 1214.8 | 1062.0 | 985.2 |
| 65° | 2194.5 | 2202.2 | 2195.2 | 2162.3 | 2010.5 | 1848.3 | 1664.6 | 1341.8 | 1157.4 | 1070.3 |
| 67.5° | 2267.6 | 2275.4 | 2278.3 | 2330.8 | 2236.2 | 2080.7 | 1889.7 | 1500.1 | 1269.0 | 1158.6 |
| 70° | 2265.9 | 2263.6 | 2316.5 | 2464.8 | 2518.7 | 2402.4 | 2193.2 | 1694.8 | 1402.0 | 1232.0 |
| 72.5° | 2062.4 | 2044.5 | 2169.5 | 2463.3 | 2753.8 | 2738.4 | 2563.9 | 1945.9 | 1516.8 | 1241.0 |
| 75° | 1547.3 | 1499.3 | 1720.2 | 2219.9 | 2793.0 | 2929.1 | 2799.5 | 2101.6 | 1489.6 | 1096.5 |
| 77.5° | 661.7 | 613.5 | 873.8 | 1643.4 | 2499.7 | 2738.1 | 2583.4 | 1833.6 | 1189.1 | 725.1 |
| 80° | 173.2 | 173.0 | 264.1 | 745.1 | 1700.0 | 2022.0 | 1773.9 | 1184.1 | 679.4 | 259.1 |
| 82.5° | 71.6 | 69.9 | 97.1 | 289.8 | 830.7 | 1134.7 | 926.0 | 528.2 | 245.4 | 70.1 |
| 85° | 26.7 | 26.5 | 47.2 | 100.1 | 293.0 | 468.0 | 338.7 | 135.0 | 61.2 | 34.2 |
| 87.5° | 7.5 | 7.2 | 10.2 | 34.7 | 71.4 | 108.3 | 57.9 | 22.2 | 17.2 | 13.5 |
| 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° |
|--------|-------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|
| 538.1 | 0° | 538.1 | 538.1 | 538.1 | 538.1 | 538.1 | 538.1 | 538.1 | 538.1 | 538.1 | 538.1 |
| 539.1 | 2.5° | 539.9 | 541.1 | 543.4 | 545.1 | 547.4 | 549.9 | 553.4 | 555.6 | 557.9 | 559.4 |
| 540.4 | 5° | 542.1 | 544.9 | 550.6 | 556.4 | 563.1 | 569.3 | 576.6 | 581.8 | 586.1 | 587.3 |
| 544.9 | 7.5° | 547.1 | 551.6 | 561.4 | 571.1 | 581.8 | 592.1 | 602.5 | 611.5 | 618.8 | 621.5 |
| 552.9 | 10° | 555.9 | 561.8 | 575.6 | 589.3 | 603.5 | 619.3 | 632.7 | 645.7 | 655.9 | 660.2 |
| 562.3 | 12.5° | 566.8 | 574.3 | 592.3 | 611.3 | 631.0 | 652.7 | 670.2 | 686.2 | 698.9 | 704.6 |
| 575.6 | 15° | 581.1 | 590.8 | 613.8 | 639.2 | 668.2 | 698.4 | 720.6 | 738.3 | 752.5 | 759.5 |
| 589.3 | 17.5° | 596.5 | 609.5 | 638.5 | 676.9 | 718.3 | 758.0 | 784.0 | 797.0 | 811.7 | 818.4 |
| 602.0 | 20° | 611.5 | 627.5 | 668.9 | 724.8 | 780.0 | 822.2 | 843.1 | 846.6 | 847.6 | 848.4 |
| 614.0 | 22.5° | 627.0 | 648.5 | 707.1 | 785.2 | 844.4 | 873.6 | 876.6 | 861.6 | 840.7 | 830.9 |
| 625.7 | 25° | 644.0 | 672.4 | 757.0 | 851.9 | 899.8 | 903.3 | 880.3 | 843.9 | 804.2 | 786.0 |
| 635.2 | 27.5° | 660.4 | 700.1 | 816.9 | 915.5 | 939.7 | 909.0 | 859.6 | 808.0 | 760.0 | 740.8 |
| 642.0 | 30° | 676.9 | 731.8 | 883.1 | 971.2 | 958.0 | 894.8 | 826.9 | 769.3 | 721.1 | 700.9 |
| 648.0 | 32.5° | 693.6 | 768.8 | 959.2 | 1011.4 | 954.7 | 864.6 | 786.2 | 725.8 | 683.4 | 662.2 |
| 653.2 | 35° | 712.6 | 814.2 | 1031.3 | 1033.3 | 933.0 | 820.2 | 732.6 | 673.9 | 637.0 | 620.0 |
| 659.4 | 37.5° | 737.3 | 871.9 | 1095.0 | 1038.8 | 895.1 | 755.0 | 665.9 | 612.5 | 582.1 | 574.3 |
| 668.7 | 40° | 768.0 | 941.2 | 1143.7 | 1030.1 | 838.9 | 675.9 | 593.0 | 550.4 | 533.1 | 534.9 |
| 681.2 | 42.5° | 808.0 | 1018.9 | 1177.9 | 1007.6 | 760.8 | 594.3 | 529.2 | 510.2 | 518.4 | 525.4 |
| 699.9 | 45° | 859.9 | 1099.5 | 1199.1 | 969.4 | 672.4 | 525.2 | 491.5 | 496.0 | 502.2 | 502.9 |
| 730.1 | 47.5° | 926.3 | 1181.1 | 1213.1 | 911.8 | 582.3 | 476.5 | 467.5 | 468.5 | 467.3 | 462.0 |
| 775.3 | 50° | 1009.1 | 1260.5 | 1225.5 | 835.4 | 505.7 | 446.0 | 434.1 | 430.6 | 413.3 | 396.4 |
| 835.4 | 52.5° | 1103.5 | 1333.4 | 1230.8 | 740.6 | 446.0 | 420.6 | 401.1 | 379.1 | 346.9 | 341.7 |
| 911.0 | 55° | 1208.3 | 1400.8 | 1217.3 | 624.0 | 395.9 | 387.9 | 358.4 | 332.0 | 328.5 | 324.0 |
| 1010.6 | 57.5° | 1333.6 | 1473.4 | 1189.8 | 494.0 | 344.4 | 349.7 | 321.0 | 324.0 | 317.7 | 310.8 |
| 1138.7 | 60° | 1470.6 | 1548.5 | 1141.7 | 375.4 | 291.3 | 302.0 | 311.3 | 311.0 | 309.3 | 303.5 |
| 1273.7 | 62.5° | 1593.9 | 1597.9 | 1046.8 | 287.5 | 244.6 | 265.1 | 290.3 | 290.0 | 288.5 | 285.3 |
| 1414.7 | 65° | 1667.3 | 1590.5 | 888.6 | 226.4 | 206.2 | 234.6 | 261.8 | 263.8 | 264.1 | 263.8 |
| 1520.8 | 67.5° | 1654.3 | 1502.8 | 671.4 | 180.2 | 174.5 | 203.7 | 233.6 | 236.4 | 238.4 | 238.9 |
| 1534.3 | 70° | 1507.6 | 1310.4 | 437.8 | 143.8 | 146.3 | 176.5 | 206.9 | 209.7 | 211.4 | 213.4 |
| 1331.4 | 72.5° | 1175.1 | 963.5 | 250.6 | 116.3 | 121.6 | 153.0 | 180.5 | 183.7 | 184.7 | 188.4 |
| 926.5 | 75° | 716.1 | 566.6 | 135.3 | 91.6 | 99.8 | 130.8 | 154.3 | 158.0 | 159.7 | 164.2 |
| 455.0 | 77.5° | 340.5 | 245.4 | 77.1 | 71.4 | 80.4 | 106.8 | 130.3 | 134.5 | 129.8 | 132.3 |
| 125.5 | 80° | 115.1 | 91.1 | 48.7 | 54.4 | 61.4 | 83.4 | 104.3 | 108.6 | 98.6 | 98.1 |
| 41.7 | 82.5° | 40.2 | 36.9 | 31.0 | 36.2 | 39.7 | 59.7 | 78.9 | 84.4 | 73.4 | 73.1 |
| 18.7 | 85° | 15.7 | 15.0 | 17.2 | 19.7 | 23.7 | 36.7 | 51.9 | 54.7 | 45.2 | 36.4 |
| 5.5 | 87.5° | 3.2 | 3.5 | 4.2 | 4.5 | 7.2 | 12.7 | 18.7 | 23.0 | 18.2 | 15.5 |
| 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> |
| 538.1 |
| 558.4 |
| 587.8 |
| 621.8 |
| 660.4 |
| 704.6 |
| 759.0 |
| 818.2 |
| 850.4 |
| 833.7 |
| 788.7 |
| 743.1 |
| 703.1 |
| 664.9 |
| 623.8 |
| 579.8 |
| 540.9 |
| 531.9 |
| 507.9 |
| 466.0 |
| 398.6 |
| 343.4 |
| 324.7 |
| 309.5 |
| 301.5 |
| 284.0 |
| 263.8 |
| 239.4 |
| 214.4 |
| 189.9 |
| 164.7 |
| 130.3 |
| 97.1 |
| 69.6 |
| 35.9 |
| 14.2 |
| 0.0 |

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