

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: P939204

Luminaire Tested: **GALN-SB1C-940-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939204
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-940-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3964 lumens
Efficiency: N/A
Efficacy: 72.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

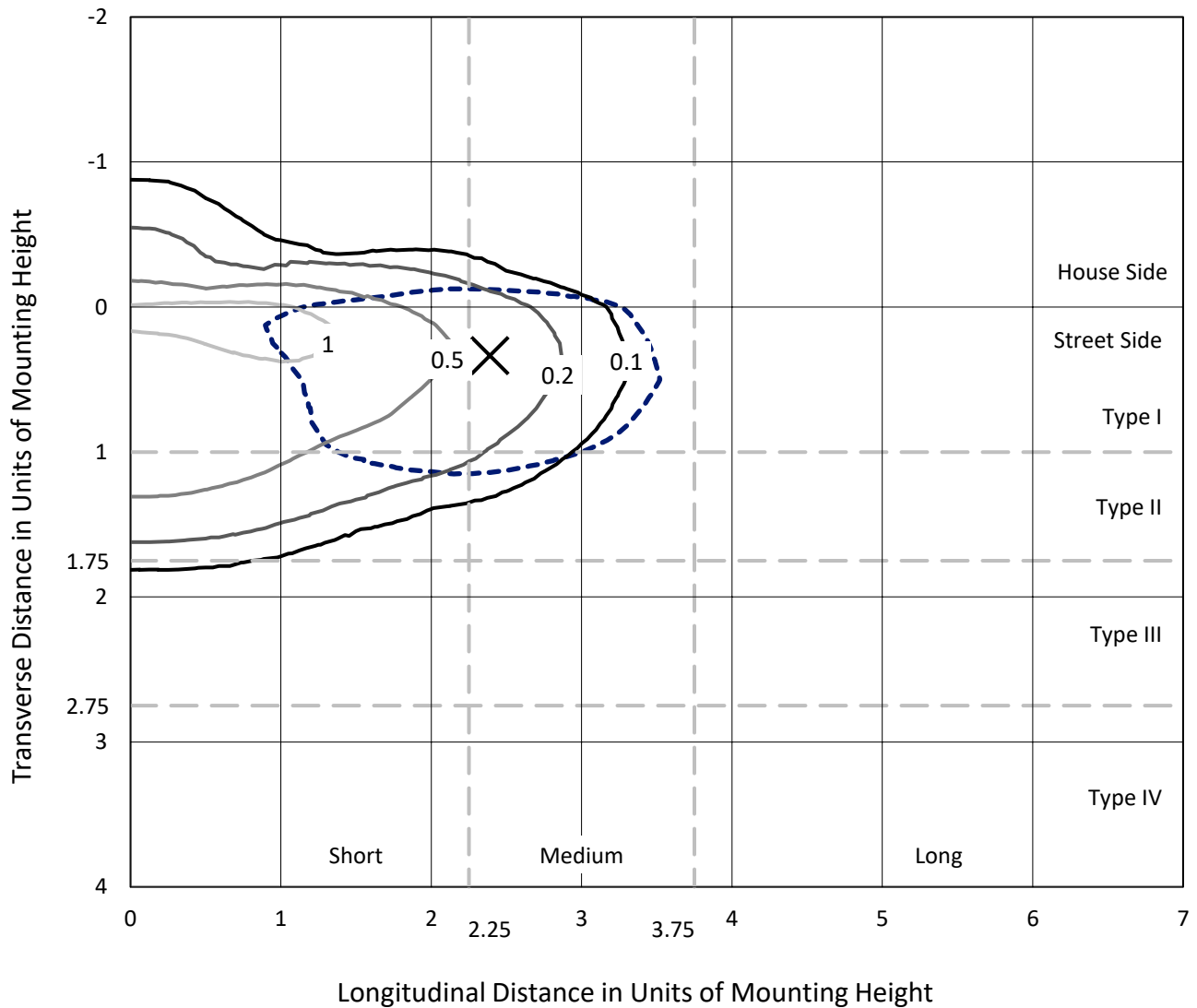
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

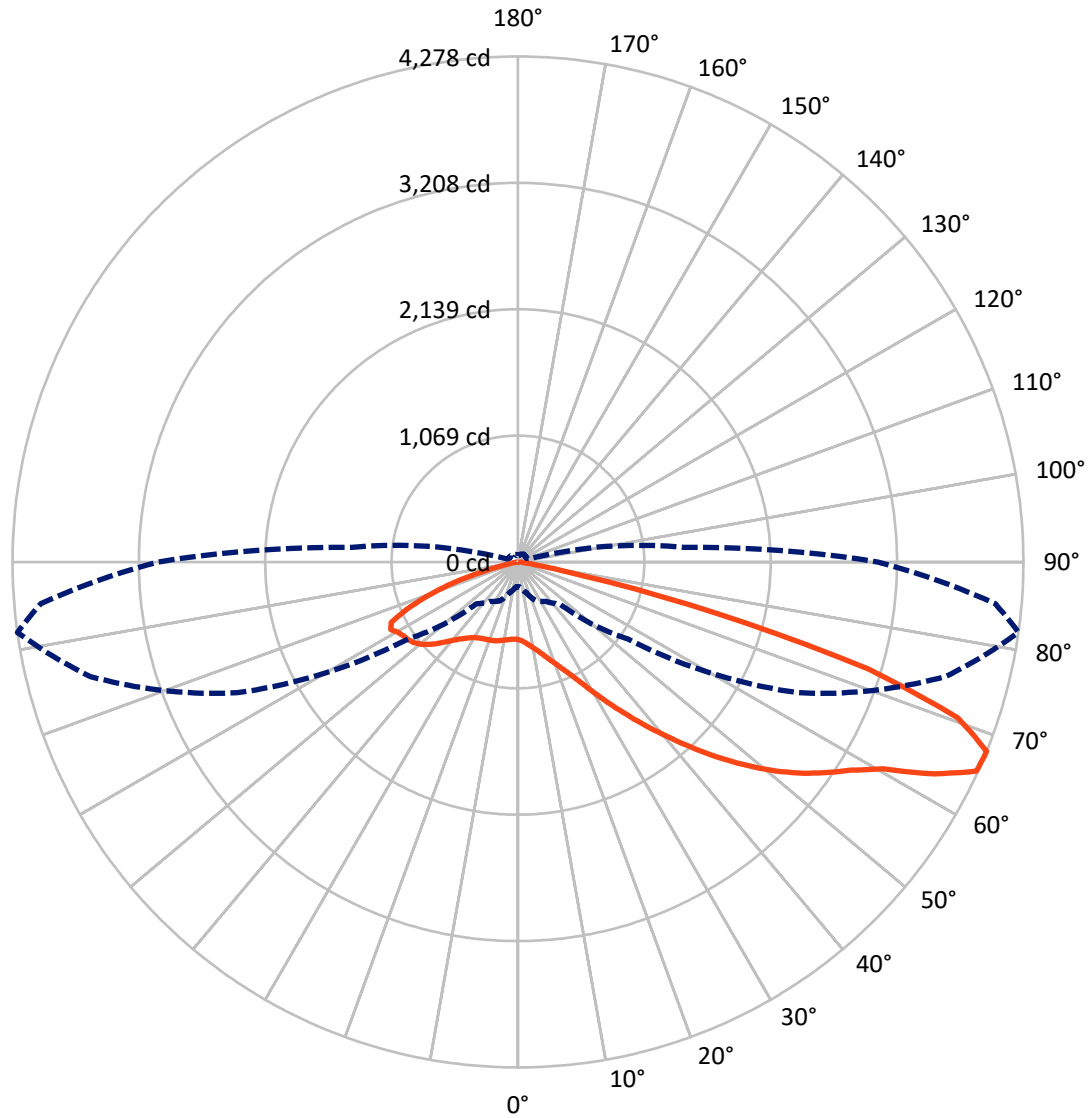
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 718.0 | 0.0 | 718.0 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 3246.0 | 0.0 | 3246.0 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 3964.0 | 0.0 | 3964.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 58.5 | 1.5 |
| 10°-20° | 152.0 | 3.8 |
| 20°-30° | 243.5 | 6.1 |
| 30°-40° | 430.6 | 10.9 |
| 40°-50° | 754.5 | 19.0 |
| 50°-60° | 1006.2 | 25.4 |
| 60°-70° | 936.8 | 23.6 |
| 70°-80° | 359.5 | 9.1 |
| 80°-90° | 22.3 | 0.6 |
| 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° | 3964.0 | 100.0 |
| 0°-180° | 3964.0 | 100.0 |



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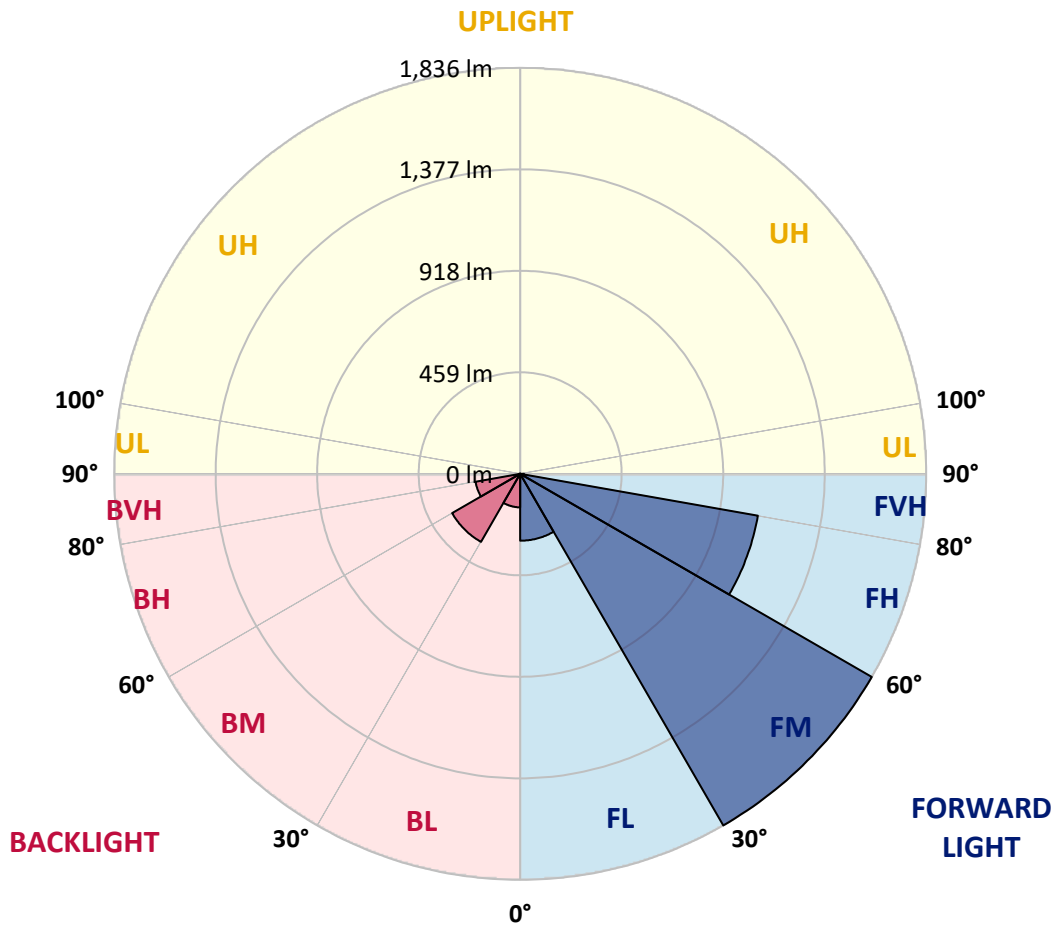
CATALOG NUMBER: GALN-SB1C-940-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 302.4 | 7.6 | | | |
| FM (30°-60°) | 1836.0 | 46.3 | | | |
| FH (60°-80°) | 1091.4 | 27.5 | | | G1/1800 |
| FVH (80°-90°) | 16.2 | 0.4 | | | G1/100 |
| BL (0°-30°) | 151.6 | 3.8 | B1/500 | | |
| BM (30°-60°) | 355.4 | 9.0 | B1/1000 | | |
| BH (60°-80°) | 204.9 | 5.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 6.1 | 0.2 | | | 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 II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 82° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 656.7 | 656.7 | 656.7 | 656.7 | 656.7 | 656.7 | 656.7 | 656.7 | 656.7 | 656.7 |
| 2.5° | 694.1 | 698.1 | 695.8 | 694.7 | 692.7 | 689.8 | 687.5 | 680.4 | 673.0 | 668.1 |
| 5° | 708.1 | 712.1 | 711.8 | 712.9 | 714.4 | 715.2 | 714.6 | 706.6 | 696.1 | 687.8 |
| 7.5° | 696.1 | 700.7 | 704.4 | 710.1 | 720.1 | 730.6 | 735.8 | 734.0 | 723.2 | 711.8 |
| 10° | 662.1 | 667.0 | 675.8 | 689.2 | 710.4 | 733.2 | 752.3 | 761.2 | 754.3 | 741.7 |
| 12.5° | 599.9 | 604.8 | 622.2 | 651.3 | 686.7 | 726.3 | 762.9 | 786.6 | 788.3 | 775.7 |
| 15° | 530.0 | 534.8 | 553.4 | 589.9 | 643.9 | 707.5 | 768.6 | 813.4 | 828.5 | 817.7 |
| 17.5° | 486.6 | 490.9 | 504.9 | 534.3 | 590.5 | 669.8 | 766.6 | 841.9 | 876.5 | 867.9 |
| 20° | 473.5 | 477.2 | 483.7 | 504.3 | 551.1 | 630.7 | 753.5 | 868.8 | 928.1 | 923.3 |
| 22.5° | 487.5 | 490.9 | 492.9 | 502.0 | 531.4 | 605.0 | 736.9 | 896.1 | 988.0 | 988.6 |
| 25° | 519.7 | 523.1 | 520.9 | 526.6 | 539.4 | 597.1 | 730.6 | 928.4 | 1063.4 | 1069.7 |
| 27.5° | 572.8 | 573.1 | 567.7 | 567.4 | 569.4 | 609.0 | 737.2 | 962.9 | 1158.4 | 1170.1 |
| 30° | 679.2 | 675.0 | 654.1 | 631.6 | 621.3 | 645.0 | 755.4 | 1003.7 | 1270.6 | 1291.4 |
| 32.5° | 843.4 | 837.1 | 798.8 | 744.9 | 690.7 | 702.9 | 788.3 | 1050.3 | 1392.7 | 1430.4 |
| 35° | 1021.4 | 1019.7 | 979.8 | 899.6 | 804.8 | 785.4 | 841.6 | 1111.3 | 1526.0 | 1586.0 |
| 37.5° | 1187.0 | 1186.1 | 1163.3 | 1068.8 | 953.5 | 900.4 | 927.3 | 1191.3 | 1668.7 | 1755.5 |
| 40° | 1338.2 | 1340.8 | 1318.0 | 1233.5 | 1117.3 | 1048.0 | 1043.7 | 1290.0 | 1827.4 | 1940.1 |
| 42.5° | 1468.9 | 1471.8 | 1448.7 | 1386.2 | 1279.2 | 1211.2 | 1186.7 | 1411.0 | 1982.4 | 2138.5 |
| 45° | 1557.7 | 1575.4 | 1572.0 | 1522.0 | 1445.3 | 1374.8 | 1358.5 | 1562.8 | 2159.0 | 2348.8 |
| 47.5° | 1582.8 | 1599.1 | 1624.8 | 1631.6 | 1584.8 | 1515.5 | 1534.9 | 1745.8 | 2337.7 | 2559.4 |
| 50° | 1520.9 | 1536.0 | 1589.4 | 1660.4 | 1693.0 | 1671.6 | 1706.4 | 1941.8 | 2520.6 | 2769.5 |
| 52.5° | 1398.7 | 1414.1 | 1481.5 | 1593.9 | 1726.7 | 1794.0 | 1878.5 | 2135.1 | 2697.9 | 2968.4 |
| 55° | 1222.1 | 1238.3 | 1324.8 | 1452.1 | 1662.4 | 1844.5 | 2022.0 | 2328.0 | 2860.3 | 3147.4 |
| 57.5° | 981.8 | 993.8 | 1083.7 | 1261.7 | 1500.9 | 1794.3 | 2127.9 | 2538.6 | 3013.2 | 3323.2 |
| 60° | 639.9 | 650.4 | 754.9 | 953.5 | 1233.2 | 1626.5 | 2149.0 | 2773.5 | 3216.4 | 3551.8 |
| 62.5° | 425.5 | 432.7 | 494.6 | 640.4 | 868.5 | 1304.3 | 2025.5 | 2961.0 | 3514.4 | 3949.6 |
| 65° | 292.0 | 299.1 | 361.0 | 462.6 | 561.1 | 862.8 | 1670.1 | 2936.2 | 3784.4 | 4265.6 |
| 67.5° | 208.3 | 214.3 | 266.8 | 362.7 | 406.1 | 501.2 | 1132.2 | 2618.8 | 3745.6 | 4277.5 |
| 70° | 149.3 | 152.7 | 196.1 | 282.5 | 322.8 | 301.1 | 629.6 | 2002.9 | 3279.5 | 3949.9 |
| 72.5° | 104.5 | 105.6 | 136.1 | 215.2 | 260.0 | 219.8 | 299.7 | 1335.4 | 2480.4 | 3100.3 |
| 75° | 70.8 | 72.2 | 91.6 | 157.8 | 208.6 | 167.8 | 158.7 | 716.1 | 1456.1 | 1716.1 |
| 77.5° | 43.4 | 44.0 | 59.1 | 107.9 | 156.1 | 127.9 | 102.2 | 303.4 | 563.4 | 553.1 |
| 80° | 24.5 | 24.5 | 37.7 | 67.1 | 106.5 | 82.5 | 71.6 | 129.0 | 178.4 | 156.7 |
| 82.5° | 13.7 | 14.0 | 27.4 | 41.7 | 70.5 | 48.8 | 39.4 | 59.6 | 77.1 | 68.2 |
| 85° | 5.7 | 6.3 | 16.8 | 19.7 | 33.7 | 24.3 | 16.0 | 25.1 | 28.5 | 25.4 |
| 87.5° | 0.6 | 0.9 | 5.1 | 3.7 | 4.0 | 4.9 | 2.3 | 4.9 | 4.0 | 4.0 |
| 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° |
|--------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 656.7 | 0° | 656.7 | 656.7 | 656.7 | 656.7 | 656.7 | 656.7 | 656.7 | 656.7 | 656.7 | 656.7 |
| 666.4 | 2.5° | 661.0 | 656.7 | 645.9 | 633.3 | 616.7 | 608.8 | 597.9 | 590.5 | 584.2 | 584.8 |
| 683.0 | 5° | 673.8 | 663.0 | 638.7 | 608.5 | 570.8 | 544.0 | 515.4 | 495.7 | 479.8 | 476.3 |
| 705.8 | 7.5° | 691.5 | 674.4 | 631.9 | 577.4 | 513.7 | 465.5 | 422.4 | 394.7 | 375.0 | 368.7 |
| 733.5 | 10° | 714.4 | 689.5 | 623.0 | 538.3 | 446.6 | 385.3 | 339.1 | 317.4 | 303.9 | 299.4 |
| 766.0 | 12.5° | 740.9 | 706.9 | 611.3 | 490.6 | 377.6 | 318.5 | 289.1 | 278.3 | 274.0 | 272.6 |
| 806.0 | 15° | 774.3 | 728.6 | 593.6 | 434.1 | 319.1 | 277.7 | 265.1 | 263.7 | 264.3 | 263.7 |
| 853.9 | 17.5° | 814.0 | 752.3 | 564.8 | 375.9 | 279.7 | 256.9 | 252.3 | 253.4 | 254.9 | 254.6 |
| 907.6 | 20° | 857.3 | 775.7 | 528.0 | 324.2 | 252.9 | 242.0 | 239.4 | 240.6 | 241.7 | 241.2 |
| 969.5 | 22.5° | 906.7 | 800.8 | 487.2 | 284.0 | 234.9 | 228.3 | 225.5 | 225.7 | 225.7 | 224.6 |
| 1048.0 | 25° | 965.8 | 828.5 | 444.4 | 255.4 | 221.2 | 216.0 | 212.6 | 211.5 | 209.8 | 206.3 |
| 1143.3 | 27.5° | 1036.3 | 857.9 | 403.3 | 235.5 | 210.3 | 205.5 | 201.5 | 198.6 | 194.4 | 188.6 |
| 1257.7 | 30° | 1115.6 | 893.6 | 368.4 | 222.9 | 201.8 | 196.9 | 192.4 | 188.1 | 181.8 | 174.7 |
| 1389.3 | 32.5° | 1208.9 | 931.8 | 343.0 | 214.6 | 194.1 | 188.9 | 183.5 | 178.4 | 171.5 | 164.4 |
| 1537.2 | 35° | 1320.3 | 978.1 | 328.2 | 208.9 | 188.1 | 181.2 | 175.2 | 169.5 | 164.4 | 158.1 |
| 1697.8 | 37.5° | 1441.0 | 1027.1 | 323.6 | 206.1 | 184.1 | 173.5 | 166.7 | 162.7 | 162.1 | 158.4 |
| 1871.6 | 40° | 1573.1 | 1085.4 | 327.1 | 204.3 | 179.8 | 166.1 | 158.7 | 157.8 | 159.3 | 152.7 |
| 2057.4 | 42.5° | 1713.0 | 1154.4 | 332.8 | 202.3 | 173.8 | 158.7 | 151.5 | 151.5 | 150.4 | 141.3 |
| 2253.8 | 45° | 1864.2 | 1234.1 | 338.5 | 197.5 | 166.7 | 151.3 | 145.8 | 143.8 | 139.0 | 130.1 |
| 2451.3 | 47.5° | 2016.6 | 1315.1 | 342.8 | 188.6 | 158.1 | 145.0 | 140.1 | 135.6 | 128.4 | 120.4 |
| 2645.1 | 50° | 2161.3 | 1387.9 | 338.2 | 175.5 | 148.4 | 139.0 | 133.9 | 127.6 | 119.9 | 114.4 |
| 2828.6 | 52.5° | 2290.6 | 1451.0 | 318.8 | 160.1 | 138.1 | 132.7 | 128.1 | 121.6 | 115.3 | 109.6 |
| 2994.1 | 55° | 2403.1 | 1502.0 | 284.5 | 145.6 | 129.0 | 127.3 | 122.7 | 114.4 | 105.9 | 101.0 |
| 3158.2 | 57.5° | 2510.9 | 1540.9 | 241.7 | 133.6 | 120.7 | 121.3 | 114.4 | 107.0 | 99.0 | 93.9 |
| 3379.4 | 60° | 2654.5 | 1592.8 | 198.4 | 122.4 | 111.9 | 113.6 | 106.2 | 100.7 | 90.8 | 84.2 |
| 3758.7 | 62.5° | 2883.9 | 1673.6 | 157.5 | 108.7 | 101.6 | 102.2 | 99.0 | 92.5 | 80.5 | 72.8 |
| 4039.8 | 65° | 3066.0 | 1643.9 | 124.1 | 93.9 | 89.9 | 90.8 | 90.8 | 83.6 | 70.8 | 61.9 |
| 4054.9 | 67.5° | 3045.5 | 1407.6 | 99.0 | 79.3 | 78.8 | 79.3 | 81.3 | 75.3 | 62.8 | 55.7 |
| 3746.1 | 70° | 2805.5 | 1119.6 | 79.3 | 65.9 | 68.5 | 67.1 | 72.8 | 68.8 | 56.5 | 49.4 |
| 2904.2 | 72.5° | 2289.2 | 806.5 | 60.5 | 54.5 | 52.5 | 54.8 | 65.6 | 61.9 | 47.1 | 39.1 |
| 1538.3 | 75° | 1337.7 | 430.4 | 45.1 | 43.1 | 38.0 | 45.7 | 58.2 | 52.8 | 36.0 | 28.8 |
| 471.5 | 77.5° | 435.5 | 150.1 | 33.1 | 31.7 | 28.3 | 36.8 | 49.7 | 44.5 | 29.4 | 22.8 |
| 138.1 | 80° | 116.7 | 45.4 | 22.5 | 20.8 | 18.3 | 27.4 | 39.4 | 35.4 | 21.1 | 14.8 |
| 59.4 | 82.5° | 46.8 | 19.1 | 13.1 | 11.7 | 10.0 | 18.8 | 31.1 | 28.5 | 15.7 | 9.4 |
| 18.6 | 85° | 15.1 | 6.3 | 4.9 | 3.7 | 4.6 | 11.7 | 18.6 | 19.4 | 11.1 | 4.9 |
| 2.9 | 87.5° | 2.0 | 0.9 | 0.9 | 1.1 | 0.9 | 2.0 | 5.7 | 5.4 | 3.1 | 0.6 |
| 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> |
|-------------|
| 656.7 |
| 579.1 |
| 468.6 |
| 362.5 |
| 296.0 |
| 271.7 |
| 263.4 |
| 254.0 |
| 240.9 |
| 224.0 |
| 205.8 |
| 188.1 |
| 174.1 |
| 164.7 |
| 157.5 |
| 158.1 |
| 153.0 |
| 141.3 |
| 129.9 |
| 120.2 |
| 113.6 |
| 109.0 |
| 100.5 |
| 93.3 |
| 83.3 |
| 72.2 |
| 61.1 |
| 54.5 |
| 48.5 |
| 38.2 |
| 28.0 |
| 22.0 |
| 14.6 |
| 9.4 |
| 3.7 |
| 0.0 |
| 0.0 |

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