

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: P940235

Luminaire Tested: **GALN-SB3A-950-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940235
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB3A-950-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9277 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

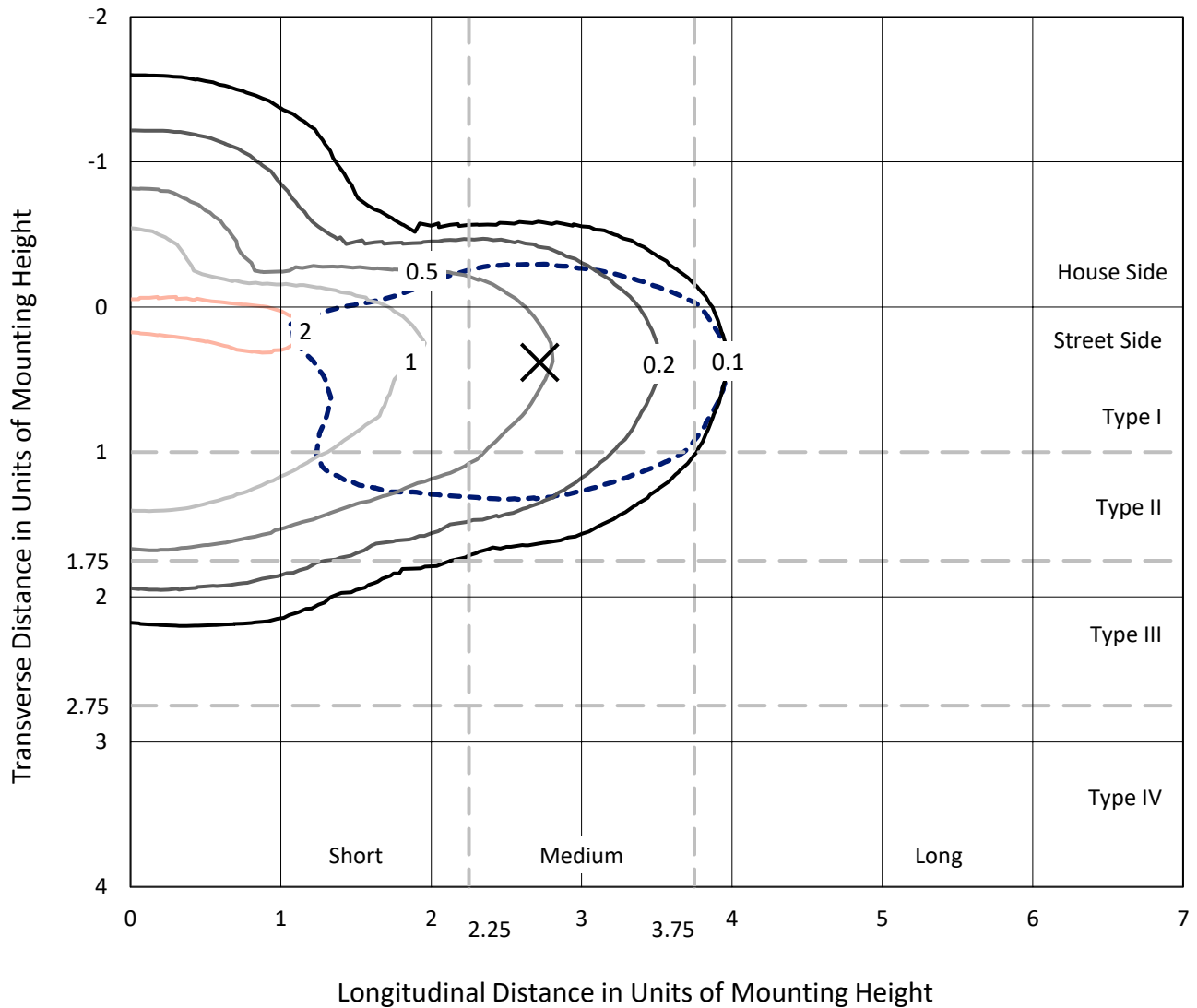
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

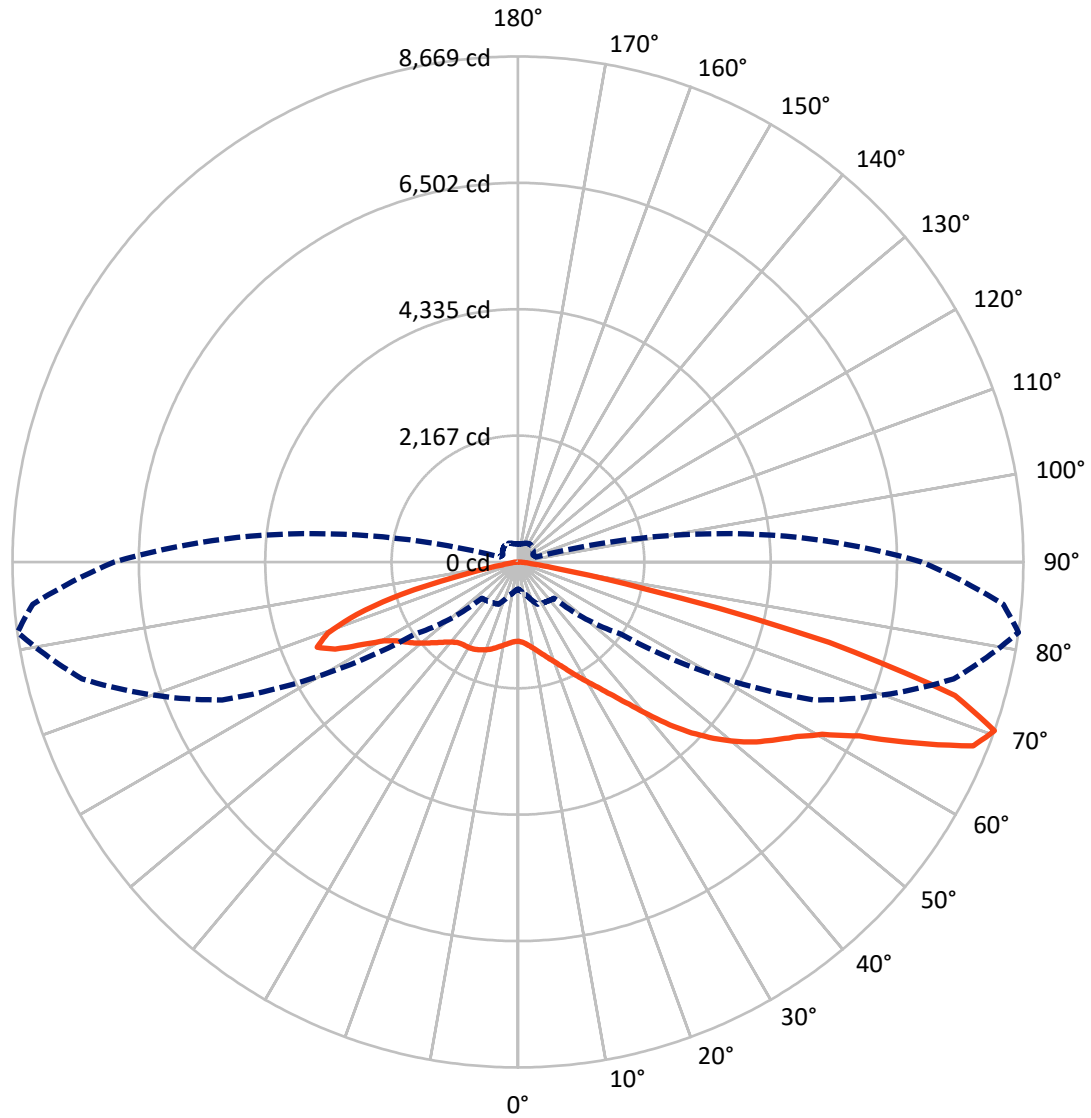
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2287.0 | 0.0 | 2287.0 |
| | % Fixture | 24.7 | 0.0 | 24.7 |
| Street Side | Lumens | 6990.0 | 0.0 | 6990.0 |
| | % Fixture | 75.3 | 0.0 | 75.3 |
| Total | Lumens | 9277.0 | 0.0 | 9277.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 128.4 | 1.4 |
| 10°-20° | 369.0 | 4.0 |
| 20°-30° | 617.2 | 6.7 |
| 30°-40° | 964.3 | 10.4 |
| 40°-50° | 1535.7 | 16.6 |
| 50°-60° | 2137.1 | 23.0 |
| 60°-70° | 2235.5 | 24.1 |
| 70°-80° | 1168.4 | 12.6 |
| 80°-90° | 121.3 | 1.3 |
| 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° | 9277.0 | 100.0 |
| 0°-180° | 9277.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P940235

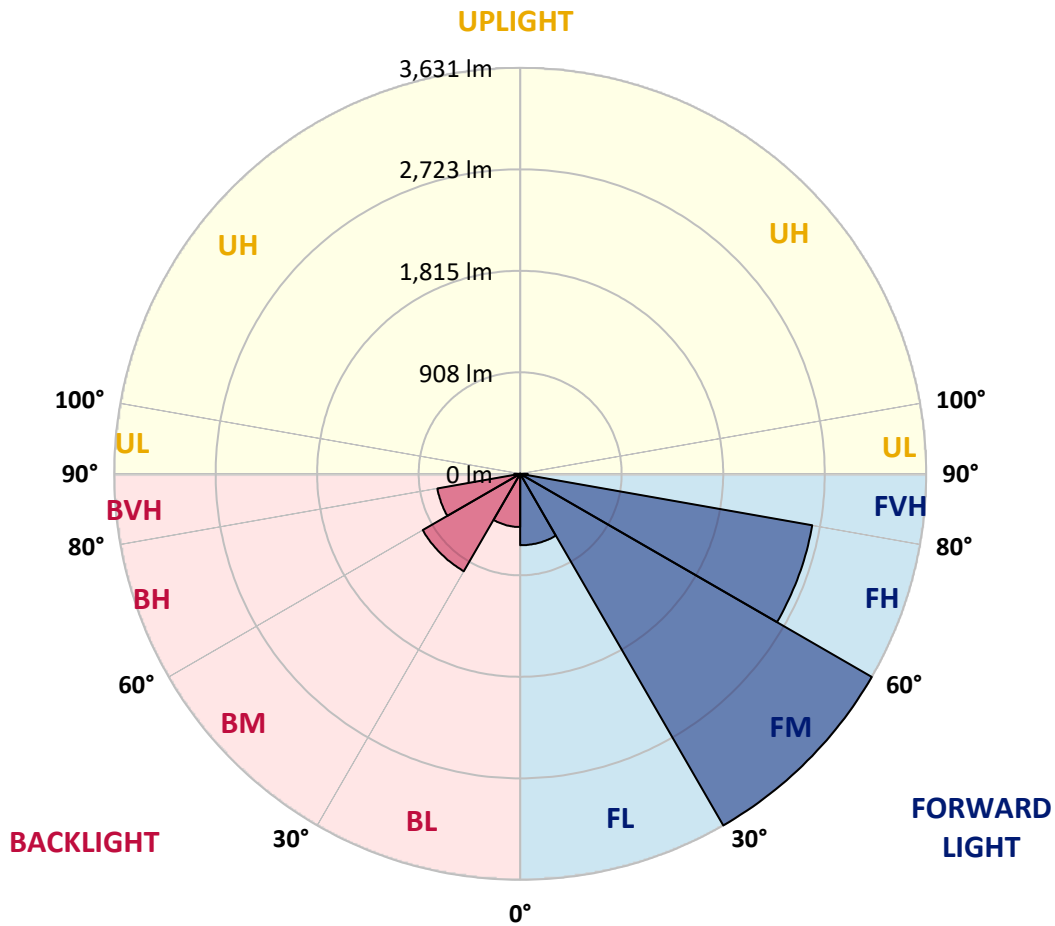
CATALOG NUMBER: GALN-SB3A-950-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 638.8 | 6.9 | | | |
| FM (30°-60°) | 3630.9 | 39.1 | | | |
| FH (60°-80°) | 2652.3 | 28.6 | | | G2/5000 |
| FVH (80°-90°) | 67.9 | 0.7 | | | G1/100 |
| BL (0°-30°) | 475.8 | 5.1 | B1/500 | | |
| BM (30°-60°) | 1006.2 | 10.8 | B2/2500 | | |
| BH (60°-80°) | 751.6 | 8.1 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 53.4 | 0.6 | | | 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 II Medium



REPORT NUMBER: P940235

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 82° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1360.1 | 1360.1 | 1360.1 | 1360.1 | 1360.1 | 1360.1 | 1360.1 | 1360.1 | 1360.1 | 1360.1 |
| 2.5° | 1392.6 | 1400.5 | 1398.0 | 1395.6 | 1395.6 | 1392.1 | 1391.6 | 1386.7 | 1382.8 | 1376.4 |
| 5° | 1410.3 | 1418.7 | 1417.7 | 1419.7 | 1426.1 | 1427.6 | 1429.0 | 1426.1 | 1418.2 | 1410.3 |
| 7.5° | 1394.6 | 1403.9 | 1406.9 | 1418.7 | 1438.4 | 1456.1 | 1469.4 | 1474.8 | 1467.4 | 1456.1 |
| 10° | 1341.4 | 1351.8 | 1362.1 | 1390.2 | 1425.1 | 1466.9 | 1502.4 | 1523.6 | 1522.1 | 1511.2 |
| 12.5° | 1233.6 | 1244.4 | 1266.6 | 1321.2 | 1385.2 | 1459.1 | 1525.0 | 1569.3 | 1584.6 | 1576.7 |
| 15° | 1147.5 | 1156.8 | 1173.6 | 1229.7 | 1312.9 | 1425.1 | 1533.4 | 1619.5 | 1658.4 | 1654.0 |
| 17.5° | 1145.0 | 1148.9 | 1159.3 | 1185.9 | 1249.9 | 1371.9 | 1524.5 | 1668.8 | 1743.1 | 1742.6 |
| 20° | 1188.3 | 1189.8 | 1195.7 | 1201.1 | 1237.6 | 1331.6 | 1501.9 | 1709.6 | 1838.1 | 1838.1 |
| 22.5° | 1248.4 | 1247.4 | 1253.3 | 1248.4 | 1266.1 | 1328.1 | 1487.6 | 1745.6 | 1943.9 | 1951.8 |
| 25° | 1338.5 | 1333.5 | 1332.1 | 1320.7 | 1324.2 | 1360.1 | 1503.4 | 1786.4 | 2069.5 | 2085.7 |
| 27.5° | 1458.6 | 1450.7 | 1445.3 | 1419.2 | 1410.3 | 1426.1 | 1551.6 | 1835.7 | 2209.3 | 2237.3 |
| 30° | 1615.1 | 1600.8 | 1593.0 | 1547.7 | 1515.7 | 1518.1 | 1624.5 | 1901.1 | 2355.5 | 2400.8 |
| 32.5° | 1828.8 | 1806.6 | 1785.4 | 1711.1 | 1652.5 | 1633.3 | 1718.5 | 1991.7 | 2514.0 | 2586.4 |
| 35° | 2068.0 | 2050.3 | 2027.6 | 1912.9 | 1822.9 | 1778.5 | 1845.5 | 2118.2 | 2699.6 | 2814.3 |
| 37.5° | 2298.4 | 2283.1 | 2293.9 | 2139.4 | 2023.2 | 1958.7 | 2011.9 | 2288.0 | 2928.5 | 3097.8 |
| 40° | 2536.6 | 2524.8 | 2526.3 | 2378.6 | 2243.2 | 2170.9 | 2213.7 | 2501.2 | 3190.9 | 3435.0 |
| 42.5° | 2795.6 | 2786.7 | 2757.2 | 2626.2 | 2474.1 | 2406.7 | 2446.1 | 2747.3 | 3472.4 | 3819.0 |
| 45° | 3085.5 | 3080.1 | 3052.5 | 2902.4 | 2728.1 | 2652.3 | 2705.5 | 3019.1 | 3755.5 | 4180.3 |
| 47.5° | 3336.1 | 3340.5 | 3337.1 | 3210.5 | 3029.9 | 2918.6 | 2982.1 | 3302.6 | 4018.8 | 4520.0 |
| 50° | 3456.7 | 3479.8 | 3513.8 | 3474.4 | 3362.2 | 3248.9 | 3261.2 | 3576.3 | 4269.9 | 4838.5 |
| 52.5° | 3393.7 | 3437.5 | 3530.0 | 3593.0 | 3636.4 | 3612.7 | 3579.7 | 3848.0 | 4506.2 | 5125.9 |
| 55° | 3158.9 | 3220.4 | 3374.0 | 3526.1 | 3747.1 | 3918.9 | 3962.2 | 4149.3 | 4736.6 | 5379.0 |
| 57.5° | 2731.1 | 2831.0 | 2968.8 | 3276.5 | 3648.7 | 4067.1 | 4408.2 | 4567.2 | 4980.7 | 5649.2 |
| 60° | 1997.6 | 2131.5 | 2302.8 | 2760.6 | 3304.1 | 3987.8 | 4787.8 | 5209.1 | 5327.8 | 5999.2 |
| 62.5° | 1278.4 | 1361.1 | 1518.6 | 1949.9 | 2574.5 | 3581.7 | 4903.9 | 6011.5 | 5916.0 | 6573.2 |
| 65° | 875.2 | 928.4 | 1072.6 | 1314.8 | 1664.3 | 2666.1 | 4592.8 | 6613.1 | 6850.3 | 7482.9 |
| 67.5° | 636.0 | 676.4 | 799.4 | 1011.6 | 1084.5 | 1577.7 | 3564.0 | 6585.5 | 7758.6 | 8420.2 |
| 70° | 463.7 | 492.3 | 595.6 | 799.4 | 834.4 | 877.7 | 2159.1 | 5598.0 | 7738.9 | 8669.3 |
| 72.5° | 343.6 | 363.3 | 432.7 | 620.3 | 675.4 | 592.7 | 1068.7 | 4068.6 | 6650.0 | 7841.3 |
| 75° | 248.6 | 263.4 | 314.6 | 474.5 | 540.5 | 451.4 | 533.1 | 2377.6 | 4638.6 | 5515.8 |
| 77.5° | 190.0 | 201.3 | 234.8 | 347.5 | 432.7 | 338.7 | 330.8 | 1093.8 | 2199.4 | 2210.3 |
| 80° | 152.6 | 160.0 | 178.2 | 244.7 | 331.8 | 253.5 | 215.6 | 441.6 | 695.1 | 588.3 |
| 82.5° | 112.2 | 124.5 | 150.6 | 171.8 | 237.3 | 174.8 | 131.4 | 223.0 | 264.3 | 227.4 |
| 85° | 64.0 | 72.4 | 91.1 | 123.1 | 151.6 | 106.8 | 75.3 | 98.9 | 123.1 | 100.9 |
| 87.5° | 22.6 | 29.5 | 32.0 | 48.2 | 66.0 | 44.3 | 29.0 | 28.6 | 40.4 | 30.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P940235
 CATALOG NUMBER: GALN-SB3A-950-U-T2

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1360.1 | 0° | 1360.1 | 1360.1 | 1360.1 | 1360.1 | 1360.1 | 1360.1 | 1360.1 | 1360.1 | 1360.1 | 1360.1 |
| 1374.9 | 2.5° | 1370.0 | 1367.5 | 1357.7 | 1344.4 | 1330.6 | 1317.3 | 1312.9 | 1303.5 | 1297.1 | 1293.7 |
| 1406.9 | 5° | 1397.5 | 1389.7 | 1366.5 | 1337.0 | 1306.0 | 1272.5 | 1248.9 | 1227.2 | 1211.5 | 1196.7 |
| 1450.7 | 7.5° | 1436.9 | 1423.1 | 1383.3 | 1331.6 | 1276.4 | 1220.8 | 1179.5 | 1148.0 | 1126.8 | 1113.0 |
| 1501.9 | 10° | 1482.7 | 1461.5 | 1400.5 | 1323.2 | 1238.0 | 1158.3 | 1109.6 | 1082.5 | 1069.2 | 1061.8 |
| 1560.5 | 12.5° | 1535.4 | 1505.3 | 1418.2 | 1304.0 | 1179.5 | 1088.4 | 1054.9 | 1047.0 | 1047.5 | 1048.0 |
| 1634.3 | 15° | 1600.3 | 1558.5 | 1432.5 | 1262.2 | 1103.2 | 1034.7 | 1028.8 | 1041.6 | 1054.9 | 1061.3 |
| 1718.0 | 17.5° | 1673.7 | 1614.6 | 1434.9 | 1193.2 | 1028.3 | 1000.3 | 1019.0 | 1046.6 | 1066.7 | 1075.6 |
| 1811.5 | 20° | 1752.5 | 1671.7 | 1417.2 | 1095.8 | 966.8 | 972.2 | 1005.7 | 1041.1 | 1063.3 | 1074.6 |
| 1918.4 | 22.5° | 1842.5 | 1732.8 | 1374.9 | 993.4 | 916.6 | 941.7 | 981.1 | 1015.5 | 1038.7 | 1050.0 |
| 2043.9 | 25° | 1945.4 | 1801.2 | 1308.4 | 907.2 | 873.3 | 907.2 | 946.6 | 975.2 | 993.9 | 1004.2 |
| 2184.2 | 27.5° | 2059.6 | 1872.6 | 1219.8 | 838.8 | 835.4 | 871.8 | 904.3 | 926.4 | 936.3 | 944.2 |
| 2333.3 | 30° | 2174.3 | 1937.5 | 1112.5 | 787.1 | 802.4 | 836.8 | 860.0 | 869.8 | 872.8 | 874.3 |
| 2499.7 | 32.5° | 2298.4 | 1993.7 | 999.8 | 744.3 | 770.9 | 802.9 | 816.7 | 821.1 | 807.3 | 798.0 |
| 2701.5 | 35° | 2448.5 | 2053.7 | 889.5 | 710.3 | 739.9 | 767.4 | 771.9 | 767.9 | 751.7 | 732.5 |
| 2954.6 | 37.5° | 2634.1 | 2128.5 | 801.4 | 686.2 | 710.8 | 729.0 | 723.6 | 722.6 | 724.1 | 701.5 |
| 3258.8 | 40° | 2861.5 | 2226.0 | 736.9 | 667.5 | 687.2 | 691.1 | 675.9 | 684.2 | 691.6 | 657.2 |
| 3592.5 | 42.5° | 3114.1 | 2343.7 | 696.1 | 654.7 | 667.5 | 658.2 | 634.5 | 643.9 | 642.9 | 597.6 |
| 3927.8 | 45° | 3371.5 | 2471.7 | 681.8 | 645.4 | 649.3 | 630.6 | 604.5 | 607.0 | 586.3 | 545.4 |
| 4249.2 | 47.5° | 3627.5 | 2609.0 | 690.6 | 637.5 | 626.7 | 605.5 | 585.3 | 574.5 | 544.0 | 513.4 |
| 4557.4 | 50° | 3878.5 | 2753.2 | 723.1 | 621.7 | 595.6 | 583.3 | 568.6 | 549.4 | 516.9 | 490.8 |
| 4848.8 | 52.5° | 4111.4 | 2898.4 | 759.6 | 595.6 | 556.8 | 564.1 | 554.8 | 532.6 | 500.6 | 474.0 |
| 5124.5 | 55° | 4331.9 | 3043.7 | 773.8 | 559.7 | 520.3 | 547.4 | 542.0 | 501.1 | 462.7 | 441.1 |
| 5412.9 | 57.5° | 4572.1 | 3218.4 | 758.1 | 513.9 | 490.8 | 528.2 | 507.5 | 462.2 | 440.1 | 423.8 |
| 5788.5 | 60° | 4904.9 | 3492.6 | 724.1 | 457.3 | 462.7 | 499.6 | 464.2 | 445.5 | 421.4 | 403.2 |
| 6351.7 | 62.5° | 5457.7 | 4004.1 | 669.5 | 401.2 | 429.7 | 457.3 | 443.5 | 424.8 | 400.2 | 382.5 |
| 7314.5 | 65° | 6274.9 | 4714.9 | 566.6 | 357.4 | 392.8 | 416.0 | 421.4 | 402.7 | 377.1 | 358.4 |
| 8158.3 | 67.5° | 6964.1 | 5160.9 | 428.8 | 321.0 | 354.9 | 382.5 | 397.7 | 379.5 | 352.5 | 334.2 |
| 8355.7 | 70° | 6926.1 | 4837.0 | 327.4 | 285.0 | 321.4 | 349.5 | 369.2 | 354.9 | 325.9 | 308.6 |
| 7589.7 | 72.5° | 6151.8 | 4046.4 | 264.8 | 248.6 | 287.5 | 315.0 | 338.7 | 327.8 | 298.3 | 281.6 |
| 5560.1 | 75° | 4519.5 | 2872.4 | 211.7 | 211.7 | 245.1 | 279.1 | 305.2 | 298.3 | 271.2 | 259.4 |
| 2334.3 | 77.5° | 1905.1 | 1205.1 | 165.9 | 175.7 | 203.8 | 239.7 | 272.2 | 274.7 | 251.1 | 265.8 |
| 617.3 | 80° | 506.5 | 332.3 | 126.5 | 138.3 | 160.0 | 197.9 | 236.8 | 235.8 | 210.2 | 196.4 |
| 229.4 | 82.5° | 193.0 | 130.9 | 90.1 | 97.5 | 115.7 | 151.6 | 187.6 | 193.5 | 167.9 | 145.2 |
| 90.1 | 85° | 74.3 | 56.1 | 55.6 | 58.6 | 67.4 | 100.4 | 141.8 | 146.7 | 126.5 | 107.3 |
| 25.1 | 87.5° | 19.2 | 16.7 | 20.7 | 19.7 | 31.0 | 53.7 | 81.2 | 84.2 | 77.3 | 44.8 |
| 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> |
|--------------|
| 1360.1 |
| 1297.6 |
| 1202.6 |
| 1116.0 |
| 1063.8 |
| 1049.0 |
| 1060.8 |
| 1077.6 |
| 1077.6 |
| 1053.0 |
| 1007.2 |
| 947.1 |
| 877.7 |
| 800.9 |
| 733.5 |
| 703.0 |
| 658.2 |
| 597.1 |
| 546.9 |
| 513.4 |
| 488.8 |
| 474.5 |
| 439.1 |
| 422.4 |
| 402.2 |
| 382.5 |
| 359.4 |
| 334.7 |
| 310.1 |
| 281.6 |
| 256.0 |
| 241.2 |
| 182.6 |
| 145.2 |
| 110.8 |
| 64.0 |
| 0.0 |

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