

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: P939455

Luminaire Tested: **GALN-SB2A-760-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939455
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-SB2A-760-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 5700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9404 lumens
Efficiency: N/A
Efficacy: 164.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

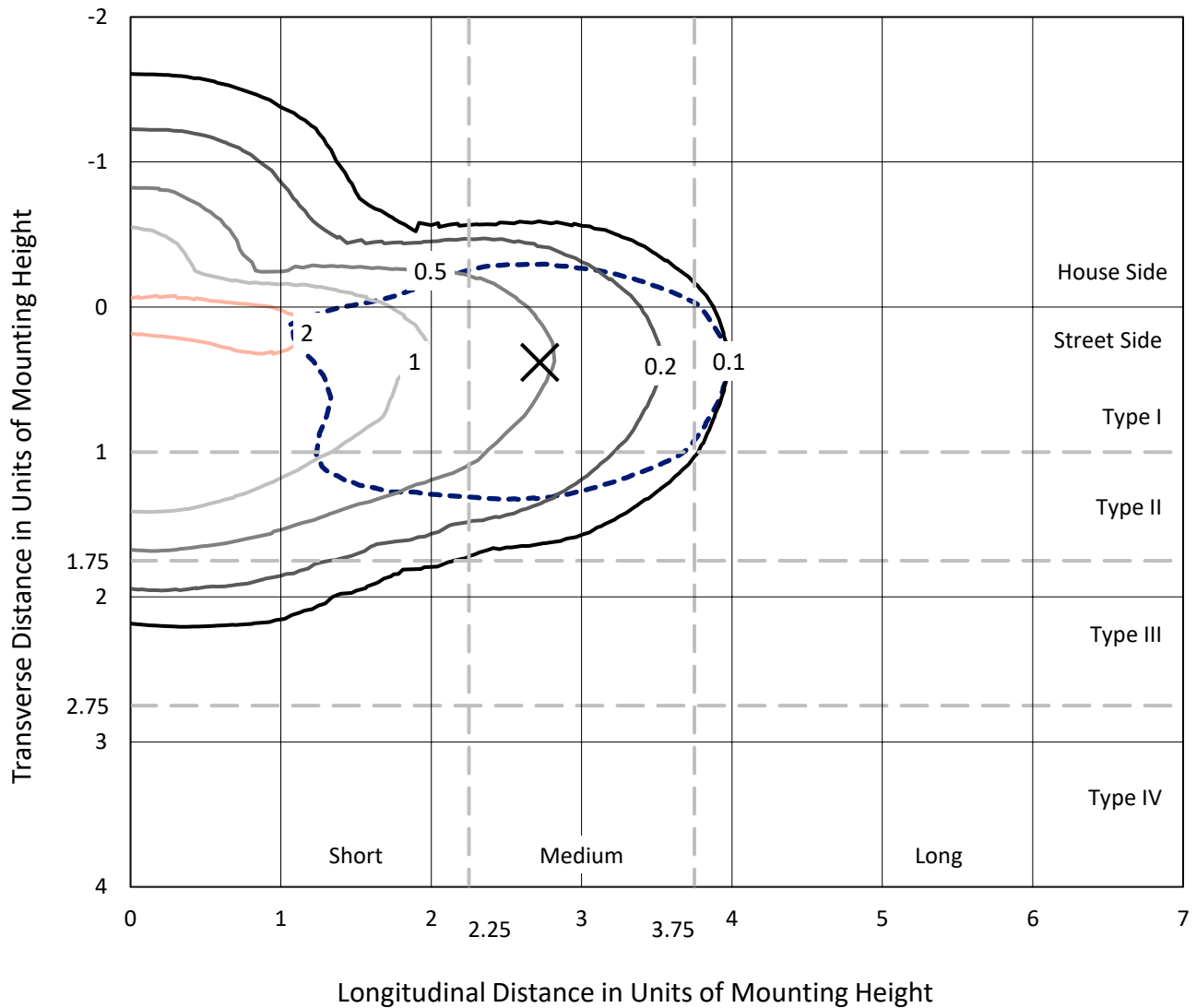
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

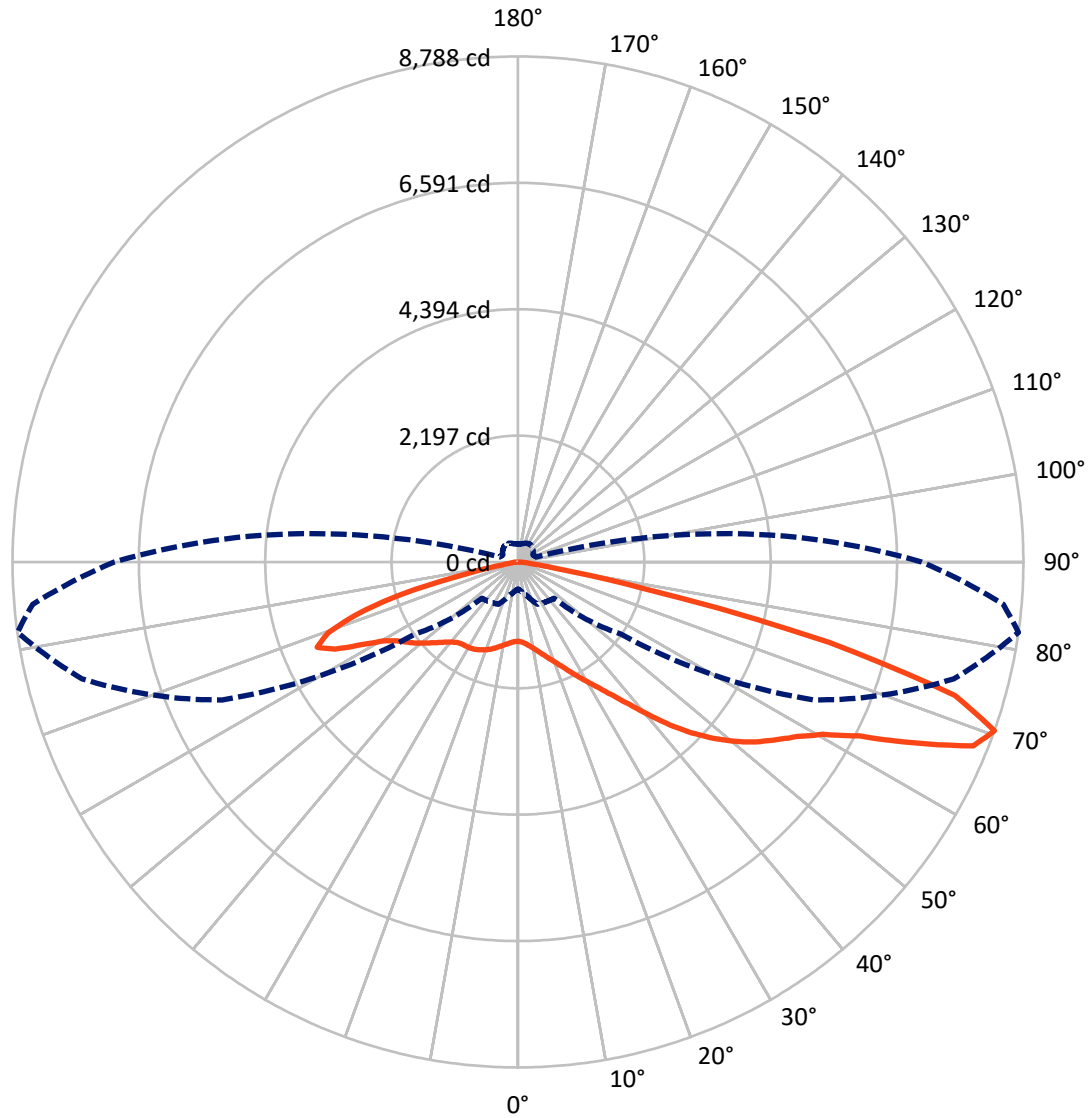
✕ Max cd
 - - - 1/2 Max cd



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 | 2318.3 | 0.0 | 2318.3 |
| | % Fixture | 24.7 | 0.0 | 24.7 |
| Street Side | Lumens | 7085.7 | 0.0 | 7085.7 |
| | % Fixture | 75.3 | 0.0 | 75.3 |
| Total | Lumens | 9404.0 | 0.0 | 9404.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 130.2 | 1.4 |
| 10°-20° | 374.0 | 4.0 |
| 20°-30° | 625.7 | 6.7 |
| 30°-40° | 977.5 | 10.4 |
| 40°-50° | 1556.7 | 16.6 |
| 50°-60° | 2166.4 | 23.0 |
| 60°-70° | 2266.1 | 24.1 |
| 70°-80° | 1184.4 | 12.6 |
| 80°-90° | 123.0 | 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° | 9404.0 | 100.0 |
| 0°-180° | 9404.0 | 100.0 |

Coefficient of Utilization



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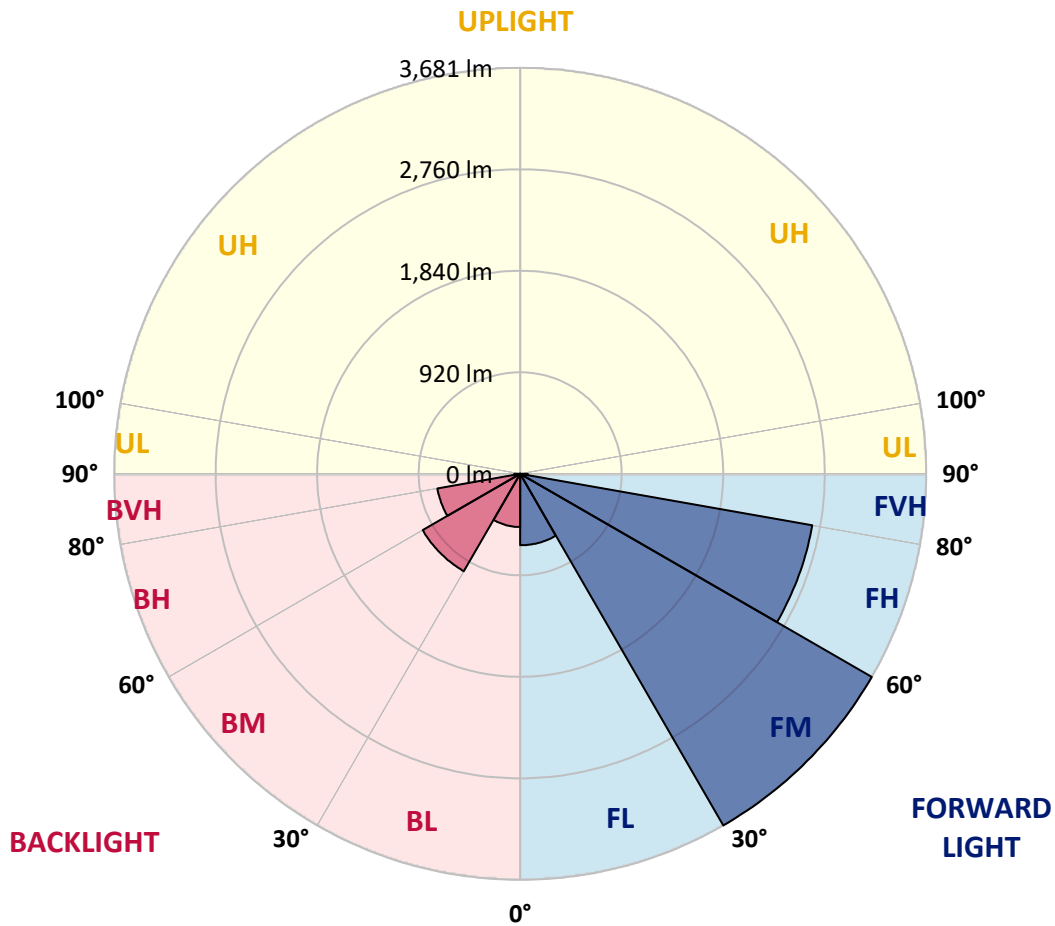
CATALOG NUMBER: GALN-SB2A-760-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 647.6 | 6.9 | | | |
| FM (30°-60°) | 3680.6 | 39.1 | | | |
| FH (60°-80°) | 2688.6 | 28.6 | | | G2/5000 |
| FVH (80°-90°) | 68.8 | 0.7 | | | G1/100 |
| BL (0°-30°) | 482.3 | 5.1 | B1/500 | | |
| BM (30°-60°) | 1020.0 | 10.8 | B2/2500 | | |
| BH (60°-80°) | 761.9 | 8.1 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 54.1 | 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



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 82° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1378.7 | 1378.7 | 1378.7 | 1378.7 | 1378.7 | 1378.7 | 1378.7 | 1378.7 | 1378.7 | 1378.7 |
| 2.5° | 1411.7 | 1419.7 | 1417.2 | 1414.7 | 1414.7 | 1411.2 | 1410.7 | 1405.7 | 1401.7 | 1395.2 |
| 5° | 1429.6 | 1438.1 | 1437.1 | 1439.1 | 1445.6 | 1447.1 | 1448.6 | 1445.6 | 1437.6 | 1429.6 |
| 7.5° | 1413.7 | 1423.2 | 1426.1 | 1438.1 | 1458.1 | 1476.0 | 1489.5 | 1495.0 | 1487.5 | 1476.0 |
| 10° | 1359.8 | 1370.3 | 1380.7 | 1409.2 | 1444.6 | 1487.0 | 1523.0 | 1544.4 | 1542.9 | 1531.9 |
| 12.5° | 1250.5 | 1261.5 | 1283.9 | 1339.3 | 1404.2 | 1479.0 | 1545.9 | 1590.8 | 1606.3 | 1598.3 |
| 15° | 1163.2 | 1172.7 | 1189.6 | 1246.5 | 1330.8 | 1444.6 | 1554.4 | 1641.7 | 1681.1 | 1676.6 |
| 17.5° | 1160.7 | 1164.7 | 1175.2 | 1202.1 | 1267.0 | 1390.7 | 1545.4 | 1691.6 | 1767.0 | 1766.5 |
| 20° | 1204.6 | 1206.1 | 1212.1 | 1217.6 | 1254.5 | 1349.8 | 1522.5 | 1733.0 | 1863.3 | 1863.3 |
| 22.5° | 1265.5 | 1264.5 | 1270.5 | 1265.5 | 1283.4 | 1346.3 | 1508.0 | 1769.5 | 1970.6 | 1978.5 |
| 25° | 1356.8 | 1351.8 | 1350.3 | 1338.8 | 1342.3 | 1378.7 | 1524.0 | 1810.9 | 2097.8 | 2114.3 |
| 27.5° | 1478.5 | 1470.6 | 1465.1 | 1438.6 | 1429.6 | 1445.6 | 1572.9 | 1860.8 | 2239.5 | 2268.0 |
| 30° | 1637.2 | 1622.8 | 1614.8 | 1568.9 | 1536.4 | 1538.9 | 1646.7 | 1927.1 | 2387.7 | 2433.6 |
| 32.5° | 1853.8 | 1831.3 | 1809.9 | 1734.5 | 1675.2 | 1655.7 | 1742.0 | 2019.0 | 2548.4 | 2621.8 |
| 35° | 2096.3 | 2078.3 | 2055.4 | 1939.1 | 1847.8 | 1802.9 | 1870.8 | 2147.2 | 2736.5 | 2852.8 |
| 37.5° | 2329.8 | 2314.4 | 2325.4 | 2168.7 | 2050.9 | 1985.5 | 2039.4 | 2319.4 | 2968.6 | 3140.2 |
| 40° | 2571.4 | 2559.4 | 2560.9 | 2411.2 | 2274.0 | 2200.6 | 2244.0 | 2535.4 | 3234.5 | 3482.0 |
| 42.5° | 2833.8 | 2824.9 | 2794.9 | 2662.2 | 2508.0 | 2439.6 | 2479.5 | 2784.9 | 3520.0 | 3871.3 |
| 45° | 3127.7 | 3122.3 | 3094.3 | 2942.1 | 2765.5 | 2688.6 | 2742.5 | 3060.4 | 3806.9 | 4237.5 |
| 47.5° | 3381.7 | 3386.2 | 3382.7 | 3254.5 | 3071.4 | 2958.6 | 3023.0 | 3347.8 | 4073.9 | 4581.8 |
| 50° | 3504.0 | 3527.4 | 3561.9 | 3522.0 | 3408.2 | 3293.4 | 3305.9 | 3625.3 | 4328.3 | 4904.7 |
| 52.5° | 3440.1 | 3484.5 | 3578.3 | 3642.2 | 3686.1 | 3662.2 | 3628.7 | 3900.7 | 4567.9 | 5196.1 |
| 55° | 3202.1 | 3264.5 | 3420.2 | 3574.4 | 3798.4 | 3972.6 | 4016.5 | 4206.1 | 4801.4 | 5452.6 |
| 57.5° | 2768.5 | 2869.8 | 3009.5 | 3321.4 | 3698.6 | 4122.8 | 4468.6 | 4629.7 | 5048.9 | 5726.6 |
| 60° | 2025.0 | 2160.7 | 2334.3 | 2798.4 | 3349.3 | 4042.4 | 4853.3 | 5280.4 | 5400.7 | 6081.3 |
| 62.5° | 1295.9 | 1379.7 | 1539.4 | 1976.5 | 2609.8 | 3630.7 | 4971.1 | 6093.8 | 5997.0 | 6663.2 |
| 65° | 887.2 | 941.1 | 1087.3 | 1332.8 | 1687.1 | 2702.6 | 4655.7 | 6703.6 | 6944.1 | 7585.3 |
| 67.5° | 644.7 | 685.6 | 810.4 | 1025.5 | 1099.3 | 1599.3 | 3612.8 | 6675.7 | 7864.8 | 8535.4 |
| 70° | 470.1 | 499.0 | 603.8 | 810.4 | 845.8 | 889.7 | 2188.6 | 5674.7 | 7844.8 | 8787.9 |
| 72.5° | 348.3 | 368.3 | 438.6 | 628.7 | 684.6 | 600.8 | 1083.3 | 4124.3 | 6741.0 | 7948.6 |
| 75° | 252.0 | 267.0 | 318.9 | 481.0 | 547.9 | 457.6 | 540.4 | 2410.2 | 4702.1 | 5591.3 |
| 77.5° | 192.6 | 204.1 | 238.0 | 352.3 | 438.6 | 343.3 | 335.3 | 1108.8 | 2229.5 | 2240.5 |
| 80° | 154.7 | 162.2 | 180.6 | 248.0 | 336.3 | 257.0 | 218.6 | 447.6 | 704.6 | 596.3 |
| 82.5° | 113.8 | 126.2 | 152.7 | 174.2 | 240.5 | 177.1 | 133.2 | 226.0 | 268.0 | 230.5 |
| 85° | 64.9 | 73.4 | 92.3 | 124.8 | 153.7 | 108.3 | 76.3 | 100.3 | 124.8 | 102.3 |
| 87.5° | 23.0 | 29.9 | 32.4 | 48.9 | 66.9 | 44.9 | 29.4 | 28.9 | 40.9 | 30.4 |
| 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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 CATALOG NUMBER: GALN-SB2A-760-U-T2

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1378.7 | 0° | 1378.7 | 1378.7 | 1378.7 | 1378.7 | 1378.7 | 1378.7 | 1378.7 | 1378.7 | 1378.7 | 1378.7 |
| 1393.7 | 2.5° | 1388.7 | 1386.2 | 1376.2 | 1362.8 | 1348.8 | 1335.3 | 1330.8 | 1321.4 | 1314.9 | 1311.4 |
| 1426.1 | 5° | 1416.7 | 1408.7 | 1385.2 | 1355.3 | 1323.9 | 1289.9 | 1266.0 | 1244.0 | 1228.0 | 1213.1 |
| 1470.6 | 7.5° | 1456.6 | 1442.6 | 1402.2 | 1349.8 | 1293.9 | 1237.5 | 1195.6 | 1163.7 | 1142.2 | 1128.2 |
| 1522.5 | 10° | 1503.0 | 1481.5 | 1419.7 | 1341.3 | 1255.0 | 1174.2 | 1124.8 | 1097.3 | 1083.8 | 1076.3 |
| 1581.8 | 12.5° | 1556.4 | 1525.9 | 1437.6 | 1321.9 | 1195.6 | 1103.3 | 1069.4 | 1061.4 | 1061.9 | 1062.4 |
| 1656.7 | 15° | 1622.3 | 1579.8 | 1452.1 | 1279.4 | 1118.3 | 1048.9 | 1042.9 | 1055.9 | 1069.4 | 1075.8 |
| 1741.5 | 17.5° | 1696.6 | 1636.7 | 1454.6 | 1209.6 | 1042.4 | 1014.0 | 1032.9 | 1060.9 | 1081.3 | 1090.3 |
| 1836.3 | 20° | 1776.4 | 1694.6 | 1436.6 | 1110.8 | 980.0 | 985.5 | 1019.5 | 1055.4 | 1077.8 | 1089.3 |
| 1944.6 | 22.5° | 1867.8 | 1756.5 | 1393.7 | 1007.0 | 929.1 | 954.6 | 994.5 | 1029.4 | 1052.9 | 1064.4 |
| 2071.9 | 25° | 1972.1 | 1825.9 | 1326.3 | 919.7 | 885.2 | 919.7 | 959.6 | 988.5 | 1007.5 | 1018.0 |
| 2214.1 | 27.5° | 2087.8 | 1898.2 | 1236.5 | 850.3 | 846.8 | 883.7 | 916.7 | 939.1 | 949.1 | 957.1 |
| 2365.3 | 30° | 2204.1 | 1964.1 | 1127.7 | 797.9 | 813.4 | 848.3 | 871.8 | 881.7 | 884.7 | 886.2 |
| 2533.9 | 32.5° | 2329.8 | 2021.0 | 1013.5 | 754.5 | 781.4 | 813.9 | 827.8 | 832.3 | 818.4 | 808.9 |
| 2738.5 | 35° | 2482.0 | 2081.8 | 901.7 | 720.1 | 750.0 | 777.9 | 782.4 | 778.4 | 762.0 | 742.5 |
| 2995.0 | 37.5° | 2670.2 | 2157.7 | 812.4 | 695.6 | 720.6 | 739.0 | 733.5 | 732.5 | 734.0 | 711.1 |
| 3303.4 | 40° | 2900.7 | 2256.5 | 747.0 | 676.6 | 696.6 | 700.6 | 685.1 | 693.6 | 701.1 | 666.2 |
| 3641.7 | 42.5° | 3156.7 | 2375.8 | 705.6 | 663.7 | 676.6 | 667.2 | 643.2 | 652.7 | 651.7 | 605.8 |
| 3981.5 | 45° | 3417.7 | 2505.5 | 691.1 | 654.2 | 658.2 | 639.2 | 612.8 | 615.3 | 594.3 | 552.9 |
| 4307.4 | 47.5° | 3677.1 | 2644.7 | 700.1 | 646.2 | 635.2 | 613.8 | 593.3 | 582.3 | 551.4 | 520.5 |
| 4619.8 | 50° | 3931.6 | 2790.9 | 733.0 | 630.2 | 603.8 | 591.3 | 576.3 | 556.9 | 524.0 | 497.5 |
| 4915.2 | 52.5° | 4167.7 | 2938.1 | 770.0 | 603.8 | 564.4 | 571.9 | 562.4 | 539.9 | 507.5 | 480.5 |
| 5194.6 | 55° | 4391.2 | 3085.3 | 784.4 | 567.4 | 527.4 | 554.9 | 549.4 | 508.0 | 469.1 | 447.1 |
| 5487.0 | 57.5° | 4634.7 | 3262.5 | 768.5 | 521.0 | 497.5 | 535.4 | 514.5 | 468.6 | 446.1 | 429.6 |
| 5867.8 | 60° | 4972.1 | 3540.4 | 734.0 | 463.6 | 469.1 | 506.5 | 470.6 | 451.6 | 427.1 | 408.7 |
| 6438.6 | 62.5° | 5532.4 | 4058.9 | 678.6 | 406.7 | 435.6 | 463.6 | 449.6 | 430.6 | 405.7 | 387.7 |
| 7414.7 | 65° | 6360.8 | 4779.4 | 574.4 | 362.3 | 398.2 | 421.7 | 427.1 | 408.2 | 382.2 | 363.3 |
| 8270.0 | 67.5° | 7059.4 | 5231.5 | 434.6 | 325.3 | 359.8 | 387.7 | 403.2 | 384.7 | 357.3 | 338.8 |
| 8470.1 | 70° | 7021.0 | 4903.2 | 331.8 | 288.9 | 325.8 | 354.3 | 374.3 | 359.8 | 330.3 | 312.9 |
| 7693.6 | 72.5° | 6236.0 | 4101.8 | 268.5 | 252.0 | 291.4 | 319.4 | 343.3 | 332.3 | 302.4 | 285.4 |
| 5636.2 | 75° | 4581.3 | 2911.7 | 214.6 | 214.6 | 248.5 | 282.9 | 309.4 | 302.4 | 275.0 | 263.0 |
| 2366.3 | 77.5° | 1931.1 | 1221.6 | 168.2 | 178.1 | 206.6 | 243.0 | 275.9 | 278.4 | 254.5 | 269.5 |
| 625.7 | 80° | 513.5 | 336.8 | 128.2 | 140.2 | 162.2 | 200.6 | 240.0 | 239.0 | 213.1 | 199.1 |
| 232.5 | 82.5° | 195.6 | 132.7 | 91.3 | 98.8 | 117.3 | 153.7 | 190.1 | 196.1 | 170.2 | 147.2 |
| 91.3 | 85° | 75.3 | 56.9 | 56.4 | 59.4 | 68.4 | 101.8 | 143.7 | 148.7 | 128.2 | 108.8 |
| 25.4 | 87.5° | 19.5 | 17.0 | 21.0 | 20.0 | 31.4 | 54.4 | 82.3 | 85.3 | 78.3 | 45.4 |
| 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> |
|-------------|
| 1378.7 |
| 1315.4 |
| 1219.1 |
| 1131.2 |
| 1078.3 |
| 1063.4 |
| 1075.4 |
| 1092.3 |
| 1092.3 |
| 1067.4 |
| 1021.0 |
| 960.1 |
| 889.7 |
| 811.9 |
| 743.5 |
| 712.6 |
| 667.2 |
| 605.3 |
| 554.4 |
| 520.5 |
| 495.5 |
| 481.0 |
| 445.1 |
| 428.1 |
| 407.7 |
| 387.7 |
| 364.3 |
| 339.3 |
| 314.4 |
| 285.4 |
| 259.5 |
| 244.5 |
| 185.1 |
| 147.2 |
| 112.3 |
| 64.9 |
| 0.0 |

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