

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: P939609

Luminaire Tested: **GALN-SB2B-740-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939609
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB2B-740-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11775 lumens
Efficiency: N/A
Efficacy: 159.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

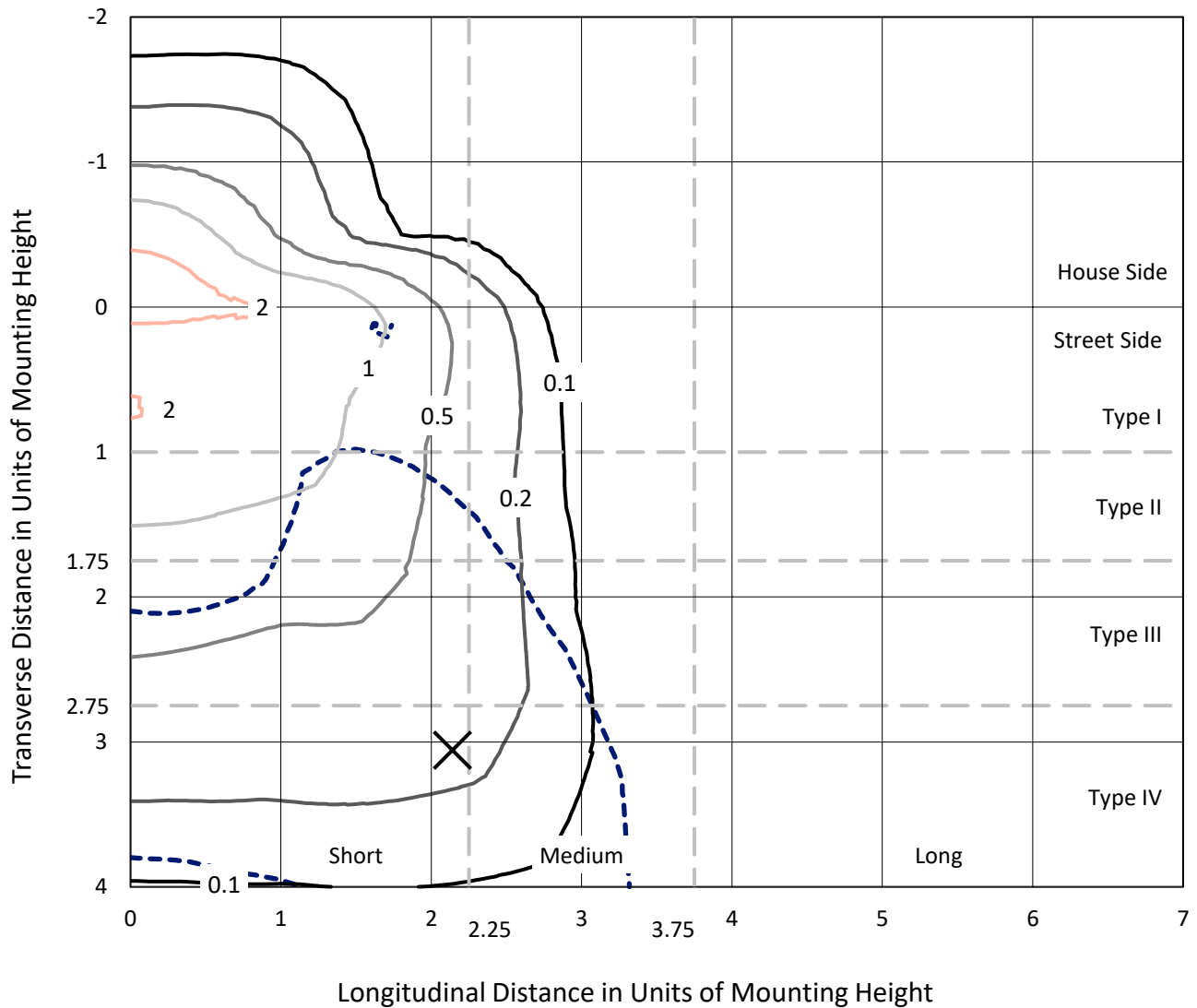
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

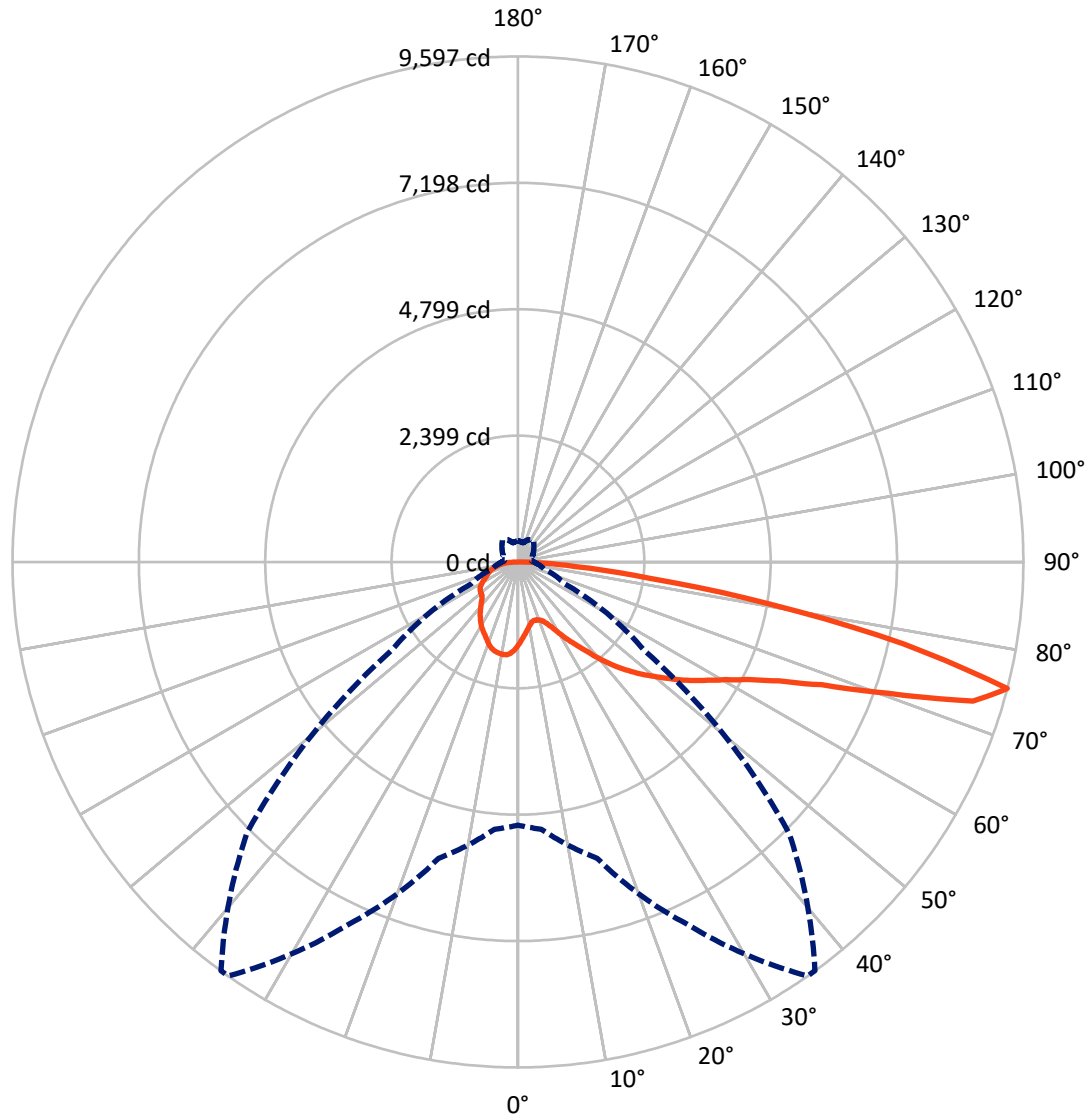
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2802.2 | 0.0 | 2802.2 |
| | % Fixture | 23.8 | 0.0 | 23.8 |
| Street Side | Lumens | 8972.8 | 0.0 | 8972.8 |
| | % Fixture | 76.2 | 0.0 | 76.2 |
| Total | Lumens | 11775.0 | 0.0 | 11775.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 148.6 | 1.3 |
| 10°-20° | 428.5 | 3.6 |
| 20°-30° | 719.6 | 6.1 |
| 30°-40° | 1118.3 | 9.5 |
| 40°-50° | 1659.9 | 14.1 |
| 50°-60° | 2291.6 | 19.5 |
| 60°-70° | 2780.3 | 23.6 |
| 70°-80° | 2297.7 | 19.5 |
| 80°-90° | 330.5 | 2.8 |
| 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° | 11775.0 | 100.0 |
| 0°-180° | 11775.0 | 100.0 |

Coefficient of Utilization



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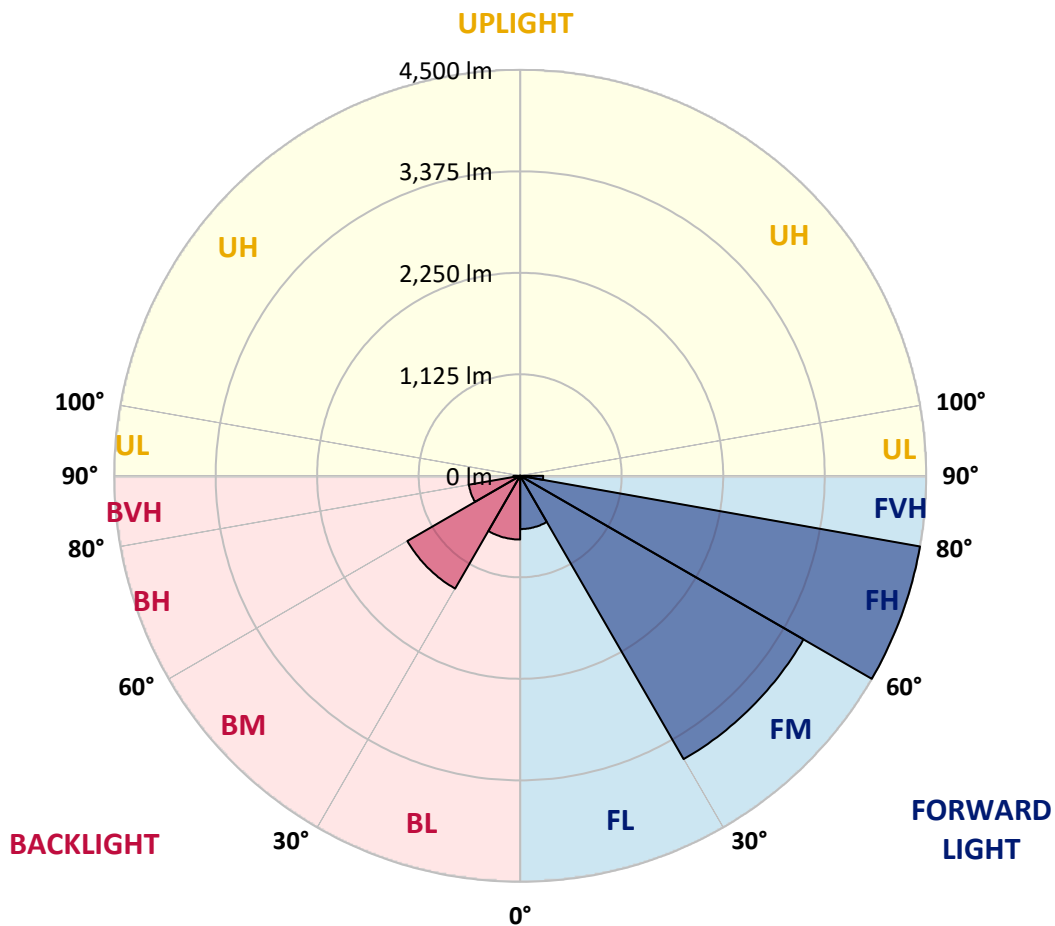
CATALOG NUMBER: GALN-SB2B-740-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 590.5 | 5.0 | | | |
| FM (30°-60°) | 3626.1 | 30.8 | | | |
| FH (60°-80°) | 4500.2 | 38.2 | | | G2/5000 |
| FVH (80°-90°) | 256.1 | 2.2 | | | G3/500 |
| BL (0°-30°) | 706.2 | 6.0 | B2/1000 | | |
| BM (30°-60°) | 1443.8 | 12.3 | B2/2500 | | |
| BH (60°-80°) | 577.7 | 4.9 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 74.4 | 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-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 36° | 45° | 55° | 65° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1569.1 | 1569.1 | 1569.1 | 1569.1 | 1569.1 | 1569.1 | 1569.1 | 1569.1 | 1569.1 | 1569.1 |
| 2.5° | 1446.9 | 1455.8 | 1459.6 | 1457.7 | 1467.3 | 1466.0 | 1479.3 | 1495.9 | 1518.8 | 1541.1 |
| 5° | 1335.5 | 1345.0 | 1353.3 | 1360.9 | 1379.4 | 1385.1 | 1406.1 | 1438.0 | 1480.0 | 1522.6 |
| 7.5° | 1231.7 | 1240.0 | 1252.7 | 1266.7 | 1297.9 | 1303.7 | 1338.7 | 1388.3 | 1446.9 | 1509.3 |
| 10° | 1147.1 | 1155.3 | 1168.7 | 1184.6 | 1223.5 | 1230.5 | 1275.0 | 1341.2 | 1417.6 | 1496.5 |
| 12.5° | 1110.8 | 1113.3 | 1121.0 | 1136.9 | 1170.6 | 1175.1 | 1224.1 | 1299.8 | 1389.0 | 1487.0 |
| 15° | 1108.9 | 1114.0 | 1114.6 | 1122.9 | 1150.9 | 1152.8 | 1198.0 | 1273.1 | 1371.1 | 1485.1 |
| 17.5° | 1128.0 | 1131.8 | 1126.1 | 1131.2 | 1154.7 | 1157.9 | 1193.5 | 1260.4 | 1365.4 | 1493.3 |
| 20° | 1178.9 | 1182.1 | 1164.9 | 1157.9 | 1175.1 | 1177.6 | 1212.6 | 1268.6 | 1371.1 | 1510.5 |
| 22.5° | 1287.1 | 1289.0 | 1247.0 | 1218.4 | 1219.6 | 1220.9 | 1251.5 | 1302.4 | 1393.4 | 1541.7 |
| 25° | 1455.8 | 1454.5 | 1387.7 | 1332.3 | 1300.5 | 1293.5 | 1313.8 | 1357.1 | 1431.0 | 1583.1 |
| 27.5° | 1653.1 | 1643.6 | 1576.7 | 1494.0 | 1424.6 | 1414.4 | 1410.0 | 1428.4 | 1484.4 | 1637.8 |
| 30° | 1875.9 | 1867.0 | 1795.1 | 1686.9 | 1590.7 | 1574.2 | 1532.2 | 1522.6 | 1564.0 | 1712.3 |
| 32.5° | 2120.4 | 2114.6 | 2028.7 | 1897.6 | 1769.0 | 1749.9 | 1679.2 | 1653.8 | 1686.2 | 1825.0 |
| 35° | 2325.3 | 2320.2 | 2248.9 | 2114.0 | 1956.8 | 1933.2 | 1861.3 | 1832.6 | 1849.2 | 1969.5 |
| 37.5° | 2510.6 | 2508.0 | 2446.9 | 2340.6 | 2178.3 | 2149.6 | 2068.8 | 2059.2 | 2056.1 | 2159.8 |
| 40° | 2682.4 | 2676.1 | 2612.4 | 2556.4 | 2436.1 | 2410.0 | 2338.7 | 2330.4 | 2306.2 | 2394.1 |
| 42.5° | 2872.8 | 2856.2 | 2763.9 | 2737.8 | 2705.3 | 2683.7 | 2641.1 | 2642.3 | 2588.9 | 2658.2 |
| 45° | 3028.1 | 3018.5 | 2923.7 | 2908.4 | 2943.4 | 2934.5 | 2971.4 | 2981.0 | 2877.2 | 2935.1 |
| 47.5° | 3194.8 | 3185.9 | 3105.7 | 3094.9 | 3189.8 | 3192.3 | 3322.8 | 3326.0 | 3158.6 | 3222.9 |
| 50° | 3400.5 | 3387.7 | 3308.2 | 3321.5 | 3427.8 | 3437.4 | 3676.1 | 3654.4 | 3417.6 | 3515.0 |
| 52.5° | 3536.0 | 3543.7 | 3526.5 | 3548.1 | 3693.3 | 3702.2 | 4023.6 | 3968.3 | 3674.2 | 3803.4 |
| 55° | 3636.0 | 3651.3 | 3704.7 | 3754.4 | 3973.4 | 3982.3 | 4351.5 | 4266.8 | 3886.8 | 4070.7 |
| 57.5° | 3764.6 | 3742.9 | 3842.9 | 3939.6 | 4239.4 | 4263.0 | 4670.4 | 4554.5 | 4075.2 | 4301.2 |
| 60° | 3949.2 | 3933.9 | 4011.5 | 4154.8 | 4537.3 | 4574.9 | 5007.7 | 4813.6 | 4213.3 | 4483.9 |
| 62.5° | 4323.5 | 4285.3 | 4297.4 | 4424.0 | 4912.9 | 4962.6 | 5388.4 | 5039.6 | 4282.1 | 4555.2 |
| 65° | 4883.0 | 4817.4 | 4756.3 | 4844.2 | 5441.9 | 5490.9 | 5818.1 | 5217.2 | 4256.6 | 4417.0 |
| 67.5° | 5587.6 | 5522.7 | 5447.6 | 5530.4 | 6221.0 | 6259.8 | 6348.3 | 5317.1 | 4056.1 | 3884.9 |
| 70° | 6168.8 | 6144.6 | 6234.4 | 6574.9 | 7465.5 | 7466.7 | 7028.2 | 5234.4 | 3506.8 | 2754.4 |
| 72.5° | 6091.8 | 6077.2 | 6550.1 | 7603.0 | 9033.9 | 9000.2 | 7671.7 | 4608.0 | 2362.2 | 1242.5 |
| 75° | 4997.6 | 5092.4 | 5825.1 | 7584.5 | 9597.3 | 9592.8 | 7277.7 | 2929.4 | 977.1 | 515.0 |
| 77.5° | 2679.9 | 2830.1 | 3781.7 | 5599.7 | 7492.2 | 7604.9 | 5116.6 | 1024.8 | 419.5 | 329.7 |
| 80° | 874.0 | 1005.1 | 1507.4 | 2851.1 | 4868.3 | 4847.3 | 2192.9 | 402.3 | 287.1 | 233.6 |
| 82.5° | 371.1 | 386.4 | 673.5 | 1346.3 | 2498.5 | 2459.6 | 698.3 | 231.1 | 201.8 | 159.8 |
| 85° | 145.1 | 162.3 | 297.3 | 622.5 | 1082.1 | 1058.6 | 252.1 | 114.6 | 129.2 | 104.4 |
| 87.5° | 47.7 | 57.9 | 106.3 | 213.2 | 336.7 | 324.6 | 61.7 | 39.5 | 56.0 | 47.7 |
| 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-SB2B-740-U-T4FT

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1569.1 | 0° | 1569.1 | 1569.1 | 1569.1 | 1569.1 | 1569.1 | 1569.1 | 1569.1 | 1569.1 | 1569.1 | 1569.1 |
| 1573.6 | 2.5° | 1582.5 | 1592.7 | 1604.7 | 1622.6 | 1637.8 | 1650.6 | 1663.9 | 1672.2 | 1675.4 | 1685.0 |
| 1576.1 | 5° | 1593.9 | 1616.2 | 1646.1 | 1675.4 | 1704.0 | 1721.2 | 1736.5 | 1744.1 | 1751.2 | 1756.2 |
| 1583.1 | 7.5° | 1613.0 | 1641.7 | 1688.8 | 1727.0 | 1751.2 | 1765.2 | 1775.3 | 1772.8 | 1775.3 | 1776.6 |
| 1590.7 | 10° | 1629.6 | 1669.7 | 1725.7 | 1762.0 | 1780.4 | 1781.1 | 1778.5 | 1769.6 | 1765.2 | 1765.8 |
| 1602.2 | 12.5° | 1649.3 | 1693.9 | 1754.3 | 1784.9 | 1790.0 | 1776.0 | 1765.2 | 1749.9 | 1744.1 | 1741.6 |
| 1619.4 | 15° | 1676.0 | 1727.0 | 1785.5 | 1797.0 | 1784.3 | 1766.4 | 1748.0 | 1723.1 | 1710.4 | 1700.2 |
| 1648.7 | 17.5° | 1708.5 | 1764.5 | 1809.7 | 1801.4 | 1774.1 | 1744.8 | 1714.9 | 1677.3 | 1651.2 | 1640.4 |
| 1688.8 | 20° | 1753.7 | 1804.0 | 1828.2 | 1791.9 | 1750.5 | 1706.0 | 1655.0 | 1609.2 | 1585.0 | 1574.2 |
| 1739.7 | 22.5° | 1808.4 | 1856.8 | 1846.0 | 1775.3 | 1716.8 | 1645.5 | 1581.8 | 1548.1 | 1536.0 | 1528.4 |
| 1805.3 | 25° | 1874.0 | 1915.4 | 1858.7 | 1751.2 | 1661.4 | 1565.3 | 1516.3 | 1505.4 | 1499.7 | 1494.0 |
| 1885.5 | 27.5° | 1959.3 | 1981.6 | 1868.3 | 1715.5 | 1574.8 | 1480.0 | 1462.2 | 1464.1 | 1462.2 | 1452.6 |
| 1996.9 | 30° | 2072.0 | 2067.5 | 1877.2 | 1657.6 | 1475.5 | 1403.0 | 1404.2 | 1412.5 | 1413.8 | 1407.4 |
| 2152.2 | 32.5° | 2220.3 | 2175.1 | 1881.6 | 1582.5 | 1380.7 | 1335.5 | 1336.8 | 1345.7 | 1352.0 | 1341.2 |
| 2355.2 | 35° | 2399.8 | 2300.5 | 1874.6 | 1488.3 | 1307.5 | 1271.2 | 1261.6 | 1264.2 | 1266.1 | 1255.9 |
| 2601.6 | 37.5° | 2609.2 | 2441.2 | 1843.5 | 1383.9 | 1247.0 | 1208.2 | 1187.8 | 1170.6 | 1160.4 | 1150.9 |
| 2880.4 | 40° | 2839.0 | 2594.6 | 1786.2 | 1282.0 | 1179.5 | 1141.3 | 1110.8 | 1078.3 | 1043.9 | 1031.2 |
| 3175.8 | 42.5° | 3079.6 | 2752.4 | 1716.8 | 1184.6 | 1101.9 | 1070.7 | 1038.2 | 991.1 | 939.5 | 913.5 |
| 3482.6 | 45° | 3329.2 | 2914.1 | 1648.7 | 1088.5 | 1022.3 | 1008.9 | 971.4 | 914.7 | 858.7 | 825.6 |
| 3790.0 | 47.5° | 3573.6 | 3066.9 | 1548.7 | 991.7 | 947.8 | 962.5 | 933.2 | 881.0 | 818.6 | 766.4 |
| 4094.9 | 50° | 3807.2 | 3210.1 | 1385.1 | 893.7 | 887.4 | 948.5 | 920.5 | 845.3 | 774.0 | 707.2 |
| 4394.1 | 52.5° | 4038.9 | 3326.0 | 1175.7 | 804.6 | 854.9 | 944.6 | 903.9 | 821.2 | 733.9 | 663.9 |
| 4675.5 | 55° | 4235.6 | 3385.8 | 973.9 | 728.2 | 807.8 | 912.2 | 884.2 | 792.5 | 677.3 | 602.8 |
| 4868.3 | 57.5° | 4347.6 | 3337.4 | 805.9 | 653.1 | 742.9 | 858.7 | 850.4 | 731.4 | 609.8 | 552.5 |
| 4905.9 | 60° | 4299.3 | 3141.4 | 668.4 | 587.5 | 681.1 | 800.8 | 791.9 | 670.9 | 558.3 | 504.1 |
| 4704.7 | 62.5° | 4032.6 | 2767.7 | 559.5 | 530.2 | 625.1 | 741.6 | 733.3 | 624.5 | 518.8 | 466.6 |
| 4170.7 | 65° | 3495.3 | 2251.5 | 474.9 | 482.5 | 568.4 | 670.3 | 682.4 | 585.6 | 487.6 | 436.7 |
| 3226.7 | 67.5° | 2665.9 | 1630.8 | 408.7 | 441.1 | 513.1 | 600.3 | 635.3 | 557.6 | 461.5 | 413.1 |
| 1867.0 | 70° | 1519.4 | 926.2 | 352.6 | 401.0 | 464.0 | 535.3 | 599.0 | 535.3 | 433.5 | 393.4 |
| 699.6 | 72.5° | 576.1 | 425.2 | 304.9 | 360.9 | 416.9 | 480.6 | 558.9 | 500.3 | 401.0 | 371.1 |
| 361.6 | 75° | 307.5 | 259.1 | 256.5 | 313.8 | 362.8 | 427.1 | 508.6 | 466.0 | 376.8 | 392.1 |
| 250.2 | 77.5° | 209.4 | 183.3 | 214.5 | 268.6 | 303.6 | 367.9 | 455.1 | 413.8 | 326.6 | 325.3 |
| 173.1 | 80° | 145.1 | 129.9 | 174.4 | 216.4 | 234.9 | 309.4 | 397.2 | 355.2 | 266.1 | 248.3 |
| 106.9 | 82.5° | 87.2 | 84.7 | 130.5 | 161.7 | 166.1 | 238.7 | 329.1 | 297.9 | 217.7 | 189.7 |
| 63.7 | 85° | 47.7 | 50.3 | 83.4 | 94.8 | 96.8 | 166.8 | 257.8 | 230.4 | 167.4 | 140.7 |
| 22.9 | 87.5° | 13.4 | 17.2 | 30.6 | 37.6 | 46.5 | 86.6 | 153.4 | 136.9 | 84.0 | 58.6 |
| 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> |
|-------------|
| 1569.1 |
| 1684.3 |
| 1757.5 |
| 1778.5 |
| 1767.1 |
| 1740.3 |
| 1703.4 |
| 1641.0 |
| 1572.9 |
| 1529.6 |
| 1494.0 |
| 1454.5 |
| 1410.6 |
| 1346.3 |
| 1262.9 |
| 1157.2 |
| 1036.9 |
| 916.6 |
| 823.1 |
| 760.7 |
| 701.5 |
| 656.3 |
| 596.4 |
| 544.9 |
| 496.5 |
| 458.3 |
| 428.4 |
| 405.5 |
| 388.3 |
| 366.0 |
| 404.8 |
| 299.8 |
| 237.4 |
| 191.0 |
| 142.0 |
| 58.6 |
| 0.0 |

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