

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: P948168

Luminaire Tested: **GALN-SB3B-750-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948168
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3B-750-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17840 lumens
Efficiency: N/A
Efficacy: 163.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

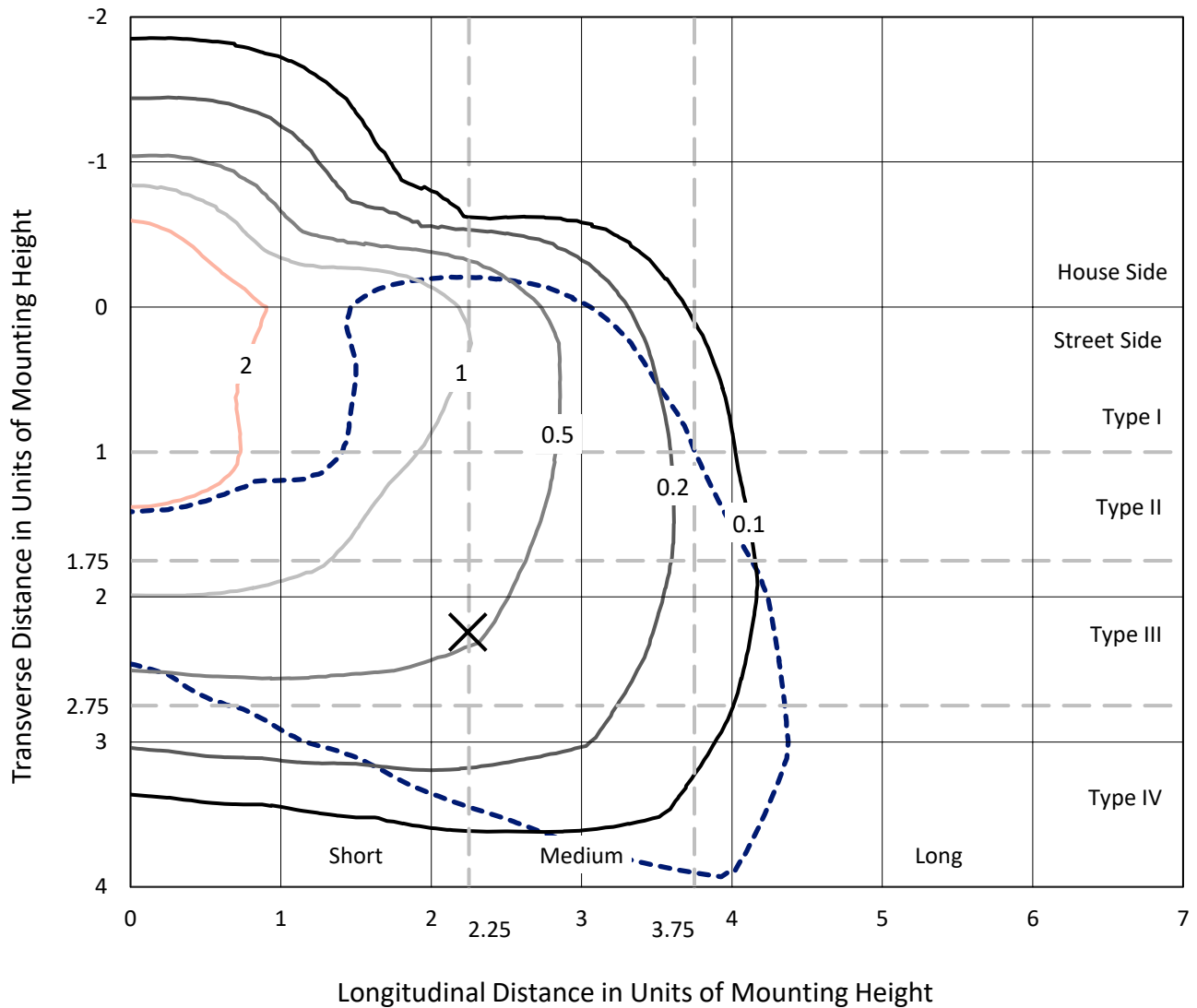
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

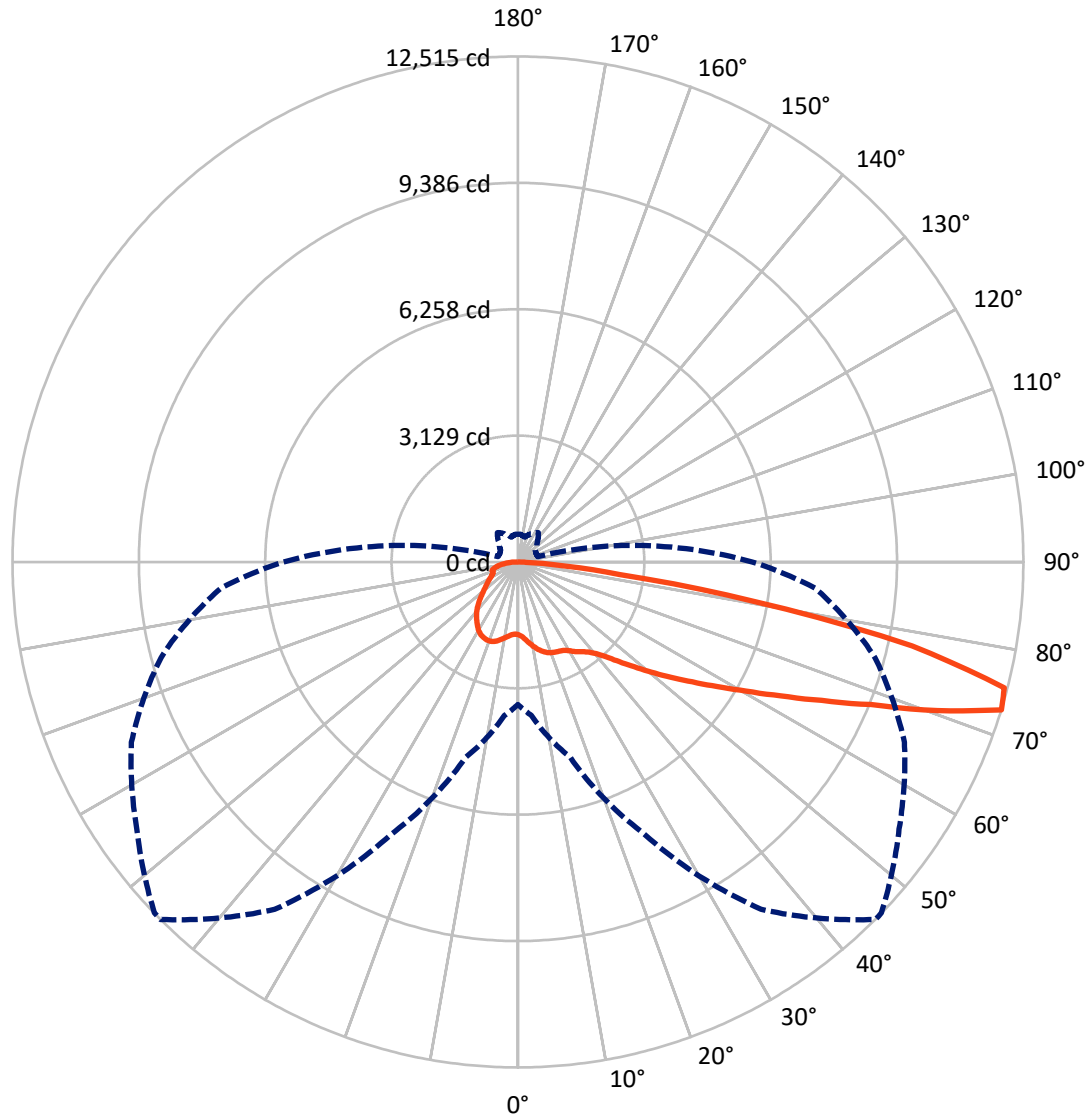
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4033.0 | 0.0 | 4033.0 |
| | % Fixture | 22.6 | 0.0 | 22.6 |
| Street Side | Lumens | 13807.0 | 0.0 | 13807.0 |
| | % Fixture | 77.4 | 0.0 | 77.4 |
| Total | Lumens | 17840.0 | 0.0 | 17840.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 183.2 | 1.0 |
| 10°-20° | 610.7 | 3.4 |
| 20°-30° | 1062.4 | 6.0 |
| 30°-40° | 1523.0 | 8.5 |
| 40°-50° | 2144.5 | 12.0 |
| 50°-60° | 3284.7 | 18.4 |
| 60°-70° | 4758.4 | 26.7 |
| 70°-80° | 3799.9 | 21.3 |
| 80°-90° | 473.3 | 2.7 |
| 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° | 17840.0 | 100.0 |
| 0°-180° | 17840.0 | 100.0 |



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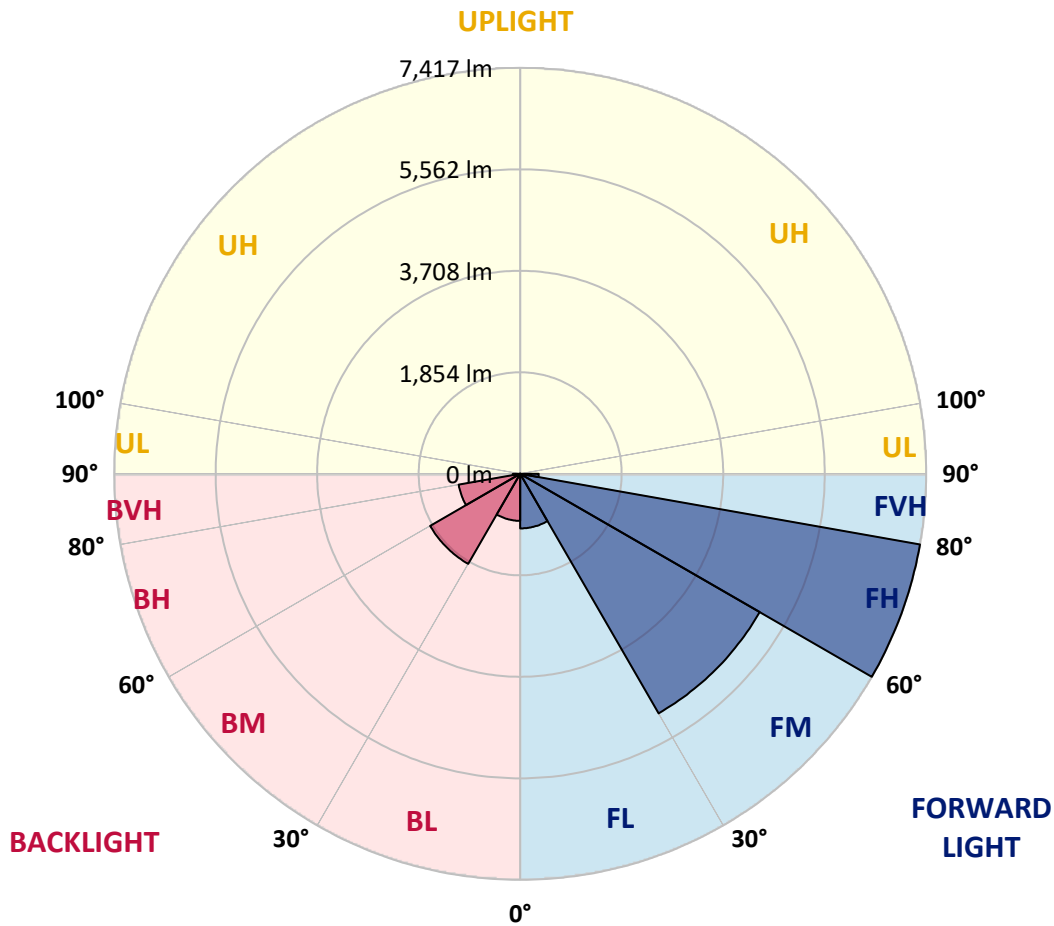
CATALOG NUMBER: GALN-SB3B-750-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 997.6 | 5.6 | | | |
| FM (30°-60°) | 5053.2 | 28.3 | | | |
| FH (60°-80°) | 7416.6 | 41.6 | | | G3/7500 |
| FVH (80°-90°) | 339.5 | 1.9 | | | G3/500 |
| BL (0°-30°) | 858.7 | 4.8 | B2/1000 | | |
| BM (30°-60°) | 1899.0 | 10.6 | B2/2500 | | |
| BH (60°-80°) | 1141.6 | 6.4 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 133.7 | 0.7 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|--------|
| 0° | 1799.7 | 1799.7 | 1799.7 | 1799.7 | 1799.7 | 1799.7 | 1799.7 | 1799.7 | 1799.7 | 1799.7 |
| 2.5° | 1870.2 | 1882.4 | 1871.1 | 1860.8 | 1856.1 | 1843.9 | 1842.9 | 1835.4 | 1830.7 | 1817.6 |
| 5° | 2000.8 | 2016.8 | 1998.0 | 1977.3 | 1958.5 | 1928.5 | 1924.7 | 1903.1 | 1878.7 | 1850.5 |
| 7.5° | 2148.4 | 2162.5 | 2140.9 | 2109.8 | 2076.9 | 2027.1 | 2026.2 | 1986.7 | 1948.2 | 1900.3 |
| 10° | 2277.1 | 2295.9 | 2266.8 | 2224.5 | 2183.1 | 2126.8 | 2120.2 | 2075.1 | 2026.2 | 1964.2 |
| 12.5° | 2390.8 | 2404.0 | 2375.8 | 2324.1 | 2276.2 | 2219.8 | 2211.3 | 2161.5 | 2107.0 | 2036.5 |
| 15° | 2481.1 | 2498.0 | 2460.4 | 2404.9 | 2354.2 | 2298.7 | 2291.2 | 2246.1 | 2191.6 | 2117.4 |
| 17.5° | 2540.3 | 2554.4 | 2515.8 | 2453.8 | 2404.9 | 2358.9 | 2353.2 | 2315.7 | 2267.7 | 2192.5 |
| 20° | 2562.8 | 2577.9 | 2537.4 | 2474.5 | 2429.4 | 2393.7 | 2390.8 | 2363.6 | 2330.7 | 2262.1 |
| 22.5° | 2585.4 | 2599.5 | 2546.8 | 2481.1 | 2441.6 | 2419.0 | 2418.1 | 2400.2 | 2387.1 | 2330.7 |
| 25° | 2676.5 | 2680.3 | 2609.8 | 2514.9 | 2458.5 | 2438.8 | 2437.8 | 2436.9 | 2442.5 | 2398.4 |
| 27.5° | 2755.5 | 2754.5 | 2694.4 | 2605.1 | 2517.7 | 2476.4 | 2475.4 | 2484.8 | 2502.7 | 2466.0 |
| 30° | 2871.1 | 2860.7 | 2789.3 | 2696.3 | 2616.4 | 2552.5 | 2546.8 | 2538.4 | 2552.5 | 2523.4 |
| 32.5° | 3116.4 | 3083.5 | 2967.9 | 2802.5 | 2698.2 | 2649.3 | 2641.8 | 2589.1 | 2594.8 | 2576.9 |
| 35° | 3467.8 | 3424.6 | 3270.5 | 3003.6 | 2799.7 | 2730.1 | 2726.3 | 2659.6 | 2648.3 | 2632.4 |
| 37.5° | 3886.1 | 3832.5 | 3653.0 | 3294.9 | 2974.5 | 2824.1 | 2818.4 | 2758.3 | 2712.3 | 2695.3 |
| 40° | 4306.1 | 4238.5 | 4090.0 | 3650.2 | 3232.0 | 2981.0 | 2963.2 | 2872.0 | 2819.4 | 2791.2 |
| 42.5° | 4714.0 | 4657.6 | 4530.8 | 4048.6 | 3549.6 | 3210.3 | 3170.9 | 3014.9 | 2975.4 | 2949.1 |
| 45° | 5074.9 | 5024.1 | 4931.1 | 4474.4 | 3921.8 | 3522.4 | 3483.8 | 3229.1 | 3216.9 | 3216.9 |
| 47.5° | 5368.1 | 5356.8 | 5258.2 | 4908.6 | 4360.7 | 3877.6 | 3810.9 | 3527.1 | 3559.9 | 3610.7 |
| 50° | 5693.3 | 5662.3 | 5557.0 | 5336.2 | 4876.6 | 4284.5 | 4230.0 | 3892.6 | 4015.7 | 4154.8 |
| 52.5° | 5992.1 | 6009.1 | 5891.6 | 5781.6 | 5459.3 | 4738.4 | 4642.6 | 4324.0 | 4590.0 | 4820.2 |
| 55° | 6299.5 | 6300.4 | 6267.5 | 6252.5 | 6070.1 | 5240.3 | 5135.0 | 4842.8 | 5265.7 | 5551.4 |
| 57.5° | 6588.0 | 6589.8 | 6638.7 | 6771.2 | 6778.7 | 5819.2 | 5699.9 | 5479.9 | 6016.6 | 6307.9 |
| 60° | 6845.5 | 6858.6 | 6992.1 | 7302.2 | 7401.8 | 6482.7 | 6369.9 | 6232.7 | 6792.8 | 7086.1 |
| 62.5° | 6931.9 | 6979.9 | 7276.8 | 7717.6 | 8017.4 | 7296.6 | 7185.7 | 7103.9 | 7608.6 | 7881.1 |
| 65° | 6785.3 | 6895.3 | 7469.5 | 8060.6 | 8650.8 | 8263.6 | 8153.7 | 8064.4 | 8456.3 | 8712.8 |
| 67.5° | 6425.4 | 6567.3 | 7458.2 | 8420.6 | 9419.6 | 9427.1 | 9324.7 | 9115.1 | 9365.1 | 9463.7 |
| 70° | 5477.1 | 5689.5 | 6801.3 | 8555.0 | 10302.0 | 11018.2 | 10919.5 | 10380.0 | 10272.0 | 9794.6 |
| 72.5° | 3528.9 | 3814.6 | 5008.2 | 7448.8 | 10498.5 | 12515.3 | 12509.6 | 11521.9 | 10558.6 | 9151.7 |
| 75° | 1287.5 | 1462.3 | 2326.9 | 4675.5 | 8812.5 | 12439.1 | 12475.8 | 11326.4 | 9638.5 | 7069.1 |
| 77.5° | 469.0 | 513.1 | 759.4 | 1796.9 | 5419.8 | 9980.6 | 10056.8 | 9054.9 | 6860.5 | 3547.7 |
| 80° | 246.2 | 270.7 | 389.1 | 697.3 | 2322.2 | 5927.3 | 6046.6 | 5381.3 | 3224.4 | 1068.5 |
| 82.5° | 136.3 | 147.5 | 218.0 | 378.7 | 1046.0 | 2534.6 | 2606.1 | 2125.8 | 1134.3 | 453.0 |
| 85° | 73.3 | 78.0 | 102.4 | 206.8 | 511.2 | 878.7 | 898.4 | 635.3 | 452.0 | 266.0 |
| 87.5° | 21.6 | 26.3 | 33.8 | 65.8 | 200.2 | 197.4 | 202.1 | 125.9 | 178.6 | 134.4 |
| 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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CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1799.7 | 0° | 1799.7 | 1799.7 | 1799.7 | 1799.7 | 1799.7 | 1799.7 | 1799.7 | 1799.7 | 1799.7 | 1799.7 |
| 1813.8 | 2.5° | 1808.2 | 1805.3 | 1795.0 | 1790.3 | 1784.7 | 1783.7 | 1788.4 | 1789.4 | 1790.3 | 1791.3 |
| 1834.5 | 5° | 1825.1 | 1815.7 | 1806.3 | 1800.6 | 1802.5 | 1803.5 | 1812.9 | 1819.4 | 1824.1 | 1827.9 |
| 1873.0 | 7.5° | 1858.0 | 1850.5 | 1834.5 | 1833.5 | 1836.4 | 1844.8 | 1857.0 | 1872.1 | 1880.5 | 1887.1 |
| 1922.8 | 10° | 1906.8 | 1892.7 | 1874.0 | 1876.8 | 1882.4 | 1894.6 | 1920.0 | 1932.2 | 1946.3 | 1958.5 |
| 1983.9 | 12.5° | 1956.7 | 1944.4 | 1922.8 | 1924.7 | 1934.1 | 1955.7 | 1980.1 | 1995.2 | 2004.6 | 2014.0 |
| 2049.7 | 15° | 2021.5 | 1999.9 | 1976.4 | 1976.4 | 1993.3 | 2016.8 | 2028.1 | 2040.3 | 2045.9 | 2056.3 |
| 2120.2 | 17.5° | 2088.2 | 2060.0 | 2029.0 | 2027.1 | 2047.8 | 2059.1 | 2065.7 | 2067.6 | 2069.4 | 2080.7 |
| 2188.8 | 20° | 2155.0 | 2123.9 | 2079.8 | 2076.0 | 2080.7 | 2078.8 | 2077.9 | 2076.0 | 2078.8 | 2092.9 |
| 2259.3 | 22.5° | 2220.7 | 2185.0 | 2123.9 | 2107.0 | 2093.9 | 2076.0 | 2075.1 | 2074.1 | 2076.0 | 2090.1 |
| 2335.4 | 25° | 2297.8 | 2254.6 | 2172.8 | 2122.1 | 2077.9 | 2053.5 | 2056.3 | 2057.2 | 2059.1 | 2070.4 |
| 2414.3 | 27.5° | 2381.4 | 2333.5 | 2217.9 | 2117.4 | 2037.5 | 2020.6 | 2015.9 | 2018.7 | 2025.3 | 2043.1 |
| 2493.3 | 30° | 2465.1 | 2408.7 | 2259.3 | 2098.6 | 1986.7 | 1963.2 | 1948.2 | 1954.8 | 1975.5 | 1993.3 |
| 2561.9 | 32.5° | 2541.2 | 2484.8 | 2292.2 | 2057.2 | 1921.9 | 1885.2 | 1865.5 | 1874.0 | 1894.6 | 1901.2 |
| 2638.0 | 35° | 2630.5 | 2566.6 | 2306.3 | 1991.4 | 1851.4 | 1795.0 | 1768.7 | 1756.5 | 1766.8 | 1760.2 |
| 2727.3 | 37.5° | 2730.1 | 2663.4 | 2304.4 | 1905.0 | 1768.7 | 1703.8 | 1667.2 | 1621.1 | 1599.5 | 1577.0 |
| 2858.9 | 40° | 2877.7 | 2781.8 | 2281.8 | 1800.6 | 1666.3 | 1607.1 | 1541.3 | 1463.3 | 1414.4 | 1370.2 |
| 3071.3 | 42.5° | 3078.8 | 2946.3 | 2240.5 | 1686.0 | 1550.7 | 1495.2 | 1405.9 | 1314.8 | 1237.7 | 1164.4 |
| 3393.6 | 45° | 3378.6 | 3161.5 | 2188.8 | 1563.8 | 1425.7 | 1371.2 | 1274.4 | 1171.9 | 1084.5 | 990.5 |
| 3851.3 | 47.5° | 3810.9 | 3450.9 | 2139.9 | 1424.7 | 1294.1 | 1244.3 | 1156.9 | 1062.0 | 958.6 | 867.4 |
| 4512.9 | 50° | 4404.8 | 3866.3 | 2094.8 | 1289.4 | 1164.4 | 1126.8 | 1057.3 | 960.5 | 856.2 | 782.8 |
| 5288.2 | 52.5° | 5160.4 | 4431.1 | 2076.0 | 1158.8 | 1043.2 | 1029.1 | 973.6 | 883.4 | 784.7 | 722.7 |
| 6192.3 | 55° | 6027.8 | 5106.8 | 2076.0 | 1033.8 | 937.0 | 941.7 | 903.1 | 819.5 | 734.0 | 678.5 |
| 7124.6 | 57.5° | 6913.1 | 5791.0 | 2038.4 | 918.2 | 846.8 | 866.5 | 842.1 | 768.8 | 691.7 | 634.4 |
| 8104.8 | 60° | 7728.9 | 6364.3 | 1886.2 | 812.9 | 766.9 | 797.9 | 781.9 | 718.9 | 625.0 | 577.0 |
| 8924.3 | 62.5° | 8355.7 | 6687.6 | 1593.0 | 729.3 | 701.1 | 736.8 | 728.3 | 653.2 | 612.7 | 593.0 |
| 9597.2 | 65° | 8669.6 | 6635.0 | 1218.0 | 655.0 | 645.6 | 701.1 | 683.2 | 680.4 | 648.5 | 625.9 |
| 9816.2 | 67.5° | 8477.0 | 6182.0 | 883.4 | 600.5 | 613.7 | 668.2 | 736.8 | 748.1 | 688.9 | 644.7 |
| 9199.7 | 70° | 7632.1 | 5362.5 | 657.9 | 548.8 | 573.3 | 669.1 | 840.2 | 782.8 | 675.7 | 624.0 |
| 7378.3 | 72.5° | 5806.1 | 3998.8 | 510.3 | 494.3 | 520.6 | 673.8 | 886.2 | 766.9 | 638.1 | 689.8 |
| 4596.5 | 75° | 3320.3 | 2195.4 | 409.8 | 427.6 | 454.9 | 629.7 | 862.7 | 725.5 | 609.0 | 633.4 |
| 1821.3 | 77.5° | 1265.9 | 843.9 | 338.3 | 361.8 | 365.6 | 549.8 | 825.1 | 722.7 | 579.9 | 565.8 |
| 546.0 | 80° | 438.9 | 329.9 | 280.1 | 287.6 | 282.9 | 488.7 | 791.3 | 628.7 | 474.6 | 424.8 |
| 225.6 | 82.5° | 179.5 | 164.5 | 221.8 | 212.4 | 201.1 | 379.7 | 639.1 | 514.1 | 388.1 | 343.0 |
| 109.0 | 85° | 78.0 | 104.3 | 146.6 | 128.8 | 116.5 | 263.1 | 512.2 | 435.1 | 328.0 | 282.9 |
| 35.7 | 87.5° | 16.0 | 39.5 | 62.0 | 58.3 | 60.1 | 175.7 | 363.7 | 309.2 | 232.1 | 173.9 |
| 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> |
| 1799.7 |
| 1795.0 |
| 1829.8 |
| 1889.0 |
| 1955.7 |
| 2017.7 |
| 2060.0 |
| 2084.5 |
| 2098.6 |
| 2099.5 |
| 2085.4 |
| 2061.0 |
| 2013.0 |
| 1924.7 |
| 1780.9 |
| 1591.1 |
| 1373.0 |
| 1157.8 |
| 979.3 |
| 857.1 |
| 778.2 |
| 718.0 |
| 672.9 |
| 625.0 |
| 569.5 |
| 586.4 |
| 618.4 |
| 637.2 |
| 615.6 |
| 684.2 |
| 633.4 |
| 515.9 |
| 410.7 |
| 339.3 |
| 281.9 |
| 136.3 |
| 0.0 |

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