

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: P946854

Luminaire Tested: **GALN-SB2B-850-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946854
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB2B-850-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10527 lumens
Efficiency: N/A
Efficacy: 142.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

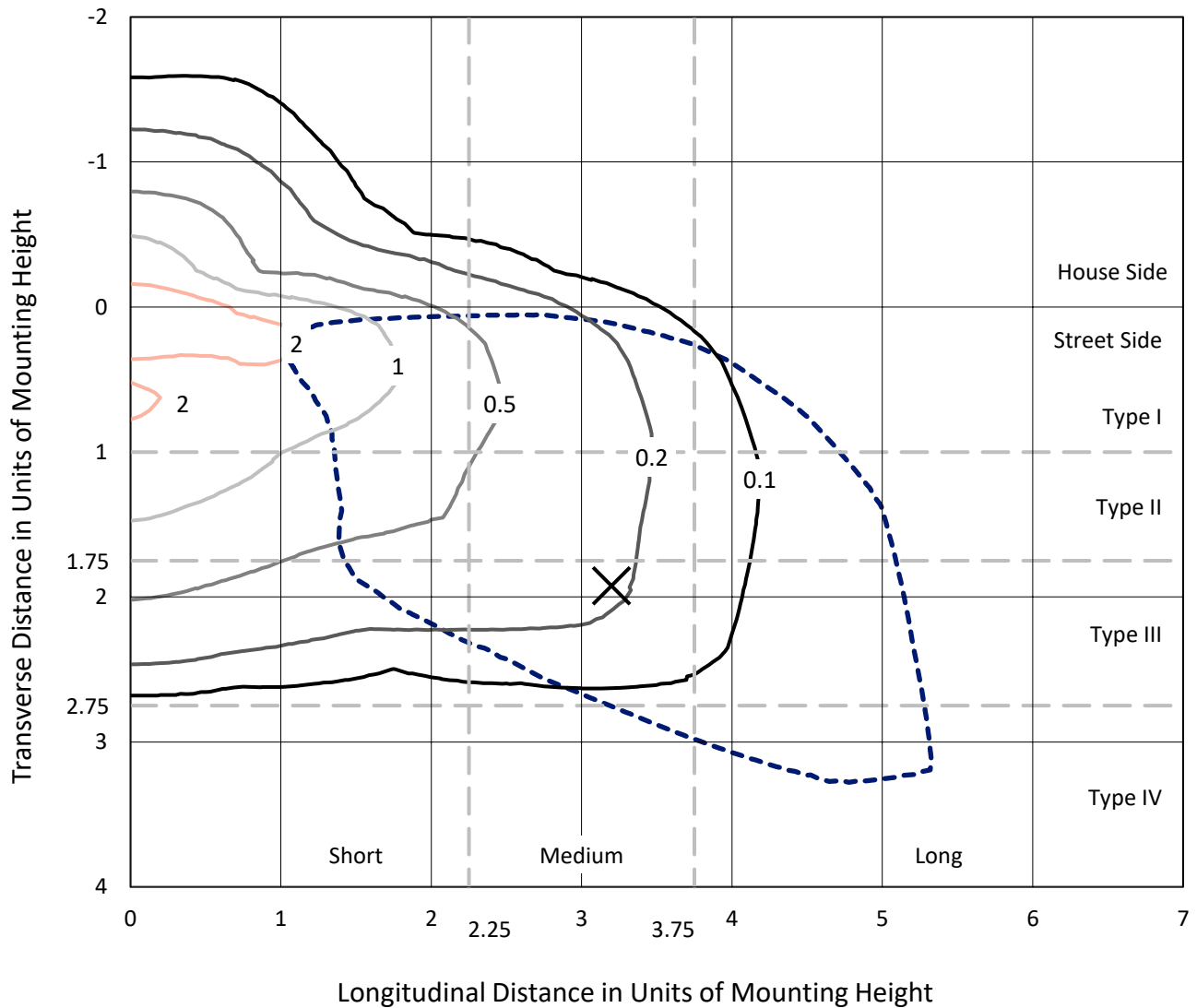
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

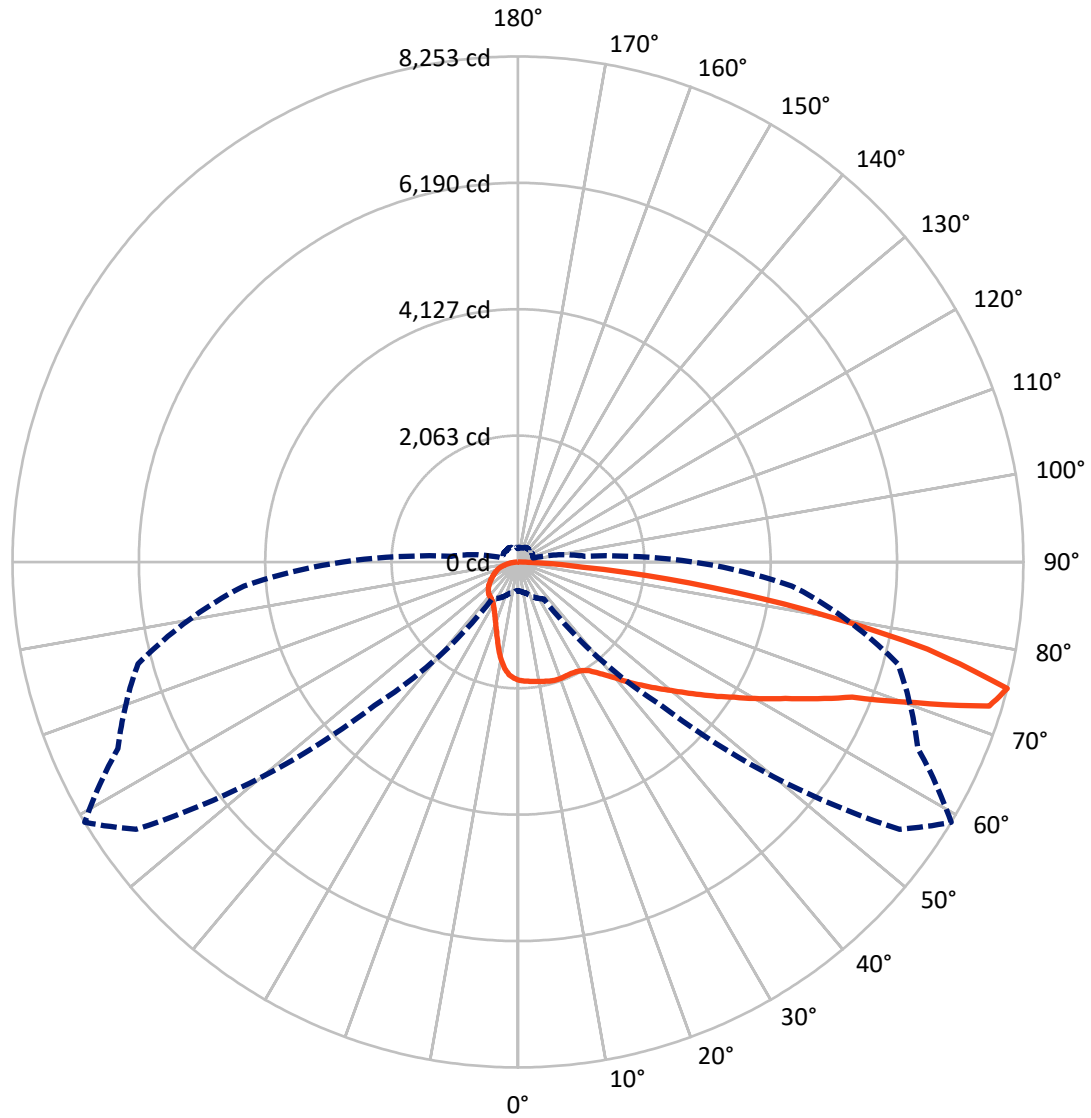
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1974.4 | 0.0 | 1974.4 |
| | % Fixture | 18.8 | 0.0 | 18.8 |
| Street Side | Lumens | 8552.6 | 0.0 | 8552.6 |
| | % Fixture | 81.2 | 0.0 | 81.2 |
| Total | Lumens | 10527.0 | 0.0 | 10527.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 173.3 | 1.6 |
| 10°-20° | 442.8 | 4.2 |
| 20°-30° | 672.7 | 6.4 |
| 30°-40° | 999.9 | 9.5 |
| 40°-50° | 1487.0 | 14.1 |
| 50°-60° | 2018.4 | 19.2 |
| 60°-70° | 2464.2 | 23.4 |
| 70°-80° | 1933.8 | 18.4 |
| 80°-90° | 335.0 | 3.2 |
| 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° | 10527.0 | 100.0 |
| 0°-180° | 10527.0 | 100.0 |

Coefficient of Utilization



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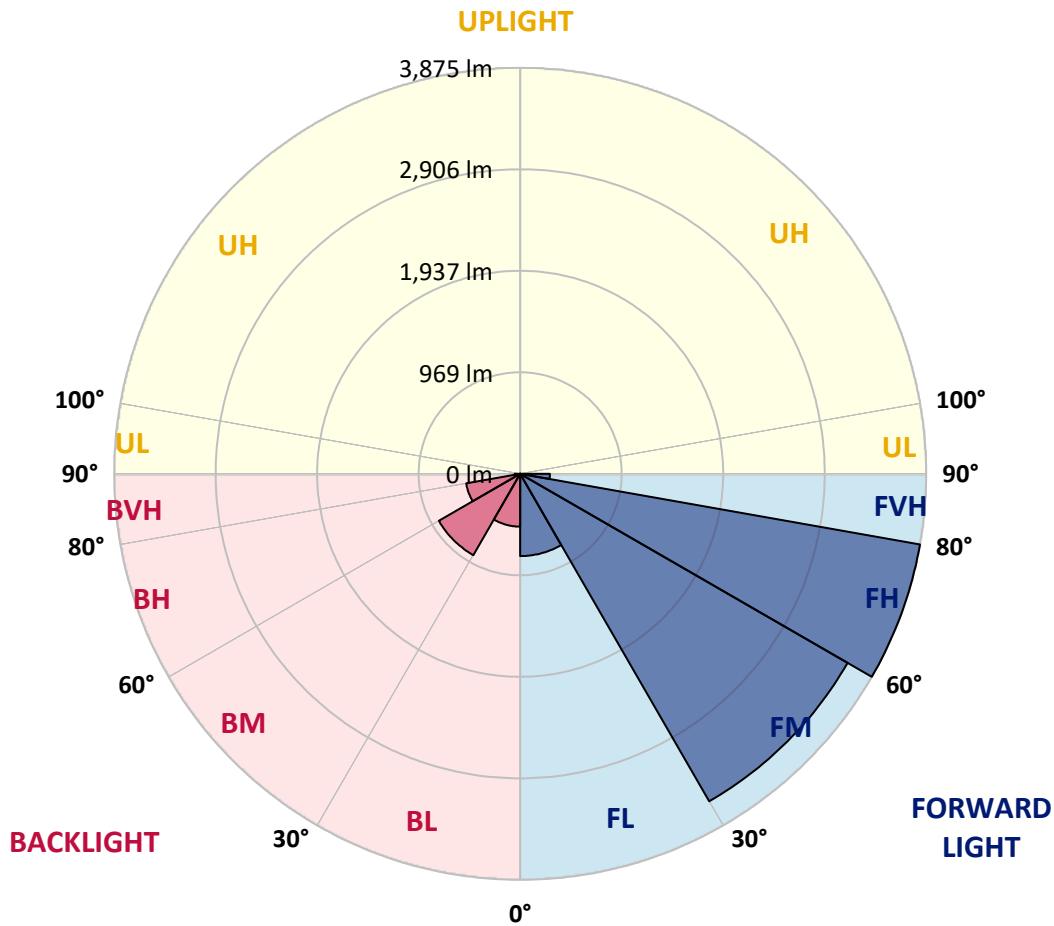
CATALOG NUMBER: GALN-SB2B-850-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 784.9 | 7.5 | | | |
| FM (30°-60°) | 3609.1 | 34.3 | | | |
| FH (60°-80°) | 3874.9 | 36.8 | | | G2/5000 |
| FVH (80°-90°) | 283.7 | 2.7 | | | G3/500 |
| BL (0°-30°) | 503.8 | 4.8 | B2/1000 | | |
| BM (30°-60°) | 896.2 | 8.5 | B1/1000 | | |
| BH (60°-80°) | 523.1 | 5.0 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 51.3 | 0.5 | | | 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 Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1932.2 | 1932.2 | 1932.2 | 1932.2 | 1932.2 | 1932.2 | 1932.2 | 1932.2 | 1932.2 | 1932.2 |
| 2.5° | 1948.6 | 1941.8 | 1948.6 | 1945.8 | 1944.7 | 1942.4 | 1943.0 | 1946.9 | 1944.7 | 1947.5 |
| 5° | 1935.6 | 1931.6 | 1938.4 | 1936.7 | 1944.1 | 1945.2 | 1952.6 | 1957.1 | 1960.0 | 1960.5 |
| 7.5° | 1914.1 | 1910.1 | 1919.7 | 1927.7 | 1943.5 | 1948.1 | 1963.4 | 1970.7 | 1974.7 | 1981.5 |
| 10° | 1835.4 | 1833.7 | 1857.5 | 1887.5 | 1924.8 | 1948.1 | 1971.3 | 1983.7 | 1990.0 | 2008.1 |
| 12.5° | 1696.1 | 1698.3 | 1729.5 | 1787.2 | 1862.0 | 1936.7 | 1980.3 | 1998.5 | 2008.1 | 2030.7 |
| 15° | 1563.0 | 1562.4 | 1596.4 | 1658.1 | 1762.9 | 1886.9 | 1984.9 | 2016.0 | 2032.4 | 2065.9 |
| 17.5° | 1486.0 | 1483.7 | 1507.5 | 1554.5 | 1651.9 | 1810.5 | 1973.5 | 2025.6 | 2060.8 | 2102.7 |
| 20° | 1471.8 | 1467.3 | 1479.7 | 1503.0 | 1572.0 | 1726.6 | 1944.1 | 2025.6 | 2083.4 | 2137.8 |
| 22.5° | 1523.3 | 1516.0 | 1510.9 | 1508.1 | 1538.6 | 1657.6 | 1910.7 | 2018.9 | 2116.8 | 2188.2 |
| 25° | 1627.0 | 1615.6 | 1589.6 | 1564.1 | 1555.1 | 1626.4 | 1881.2 | 2017.2 | 2166.7 | 2256.1 |
| 27.5° | 1794.6 | 1780.4 | 1727.8 | 1666.6 | 1611.7 | 1642.3 | 1868.2 | 2027.3 | 2221.6 | 2328.0 |
| 30° | 2002.4 | 1987.1 | 1920.9 | 1826.9 | 1728.3 | 1701.2 | 1884.6 | 2057.4 | 2291.8 | 2423.8 |
| 32.5° | 2188.7 | 2171.8 | 2115.1 | 2019.4 | 1886.3 | 1803.1 | 1936.7 | 2114.6 | 2402.2 | 2556.8 |
| 35° | 2354.1 | 2334.3 | 2283.3 | 2195.0 | 2080.0 | 1946.4 | 2030.7 | 2215.9 | 2559.1 | 2773.2 |
| 37.5° | 2516.1 | 2492.8 | 2437.3 | 2343.9 | 2263.5 | 2137.2 | 2160.4 | 2346.2 | 2767.5 | 3035.9 |
| 40° | 2697.3 | 2663.9 | 2596.5 | 2504.2 | 2426.0 | 2360.9 | 2330.9 | 2505.9 | 2979.3 | 3329.3 |
| 42.5° | 2872.8 | 2841.1 | 2760.7 | 2682.0 | 2584.0 | 2565.3 | 2528.5 | 2692.7 | 3210.9 | 3651.5 |
| 45° | 3062.0 | 3024.0 | 2926.6 | 2827.0 | 2765.2 | 2701.2 | 2719.9 | 2879.6 | 3438.0 | 3979.9 |
| 47.5° | 3239.2 | 3196.7 | 3081.8 | 2970.8 | 2936.8 | 2815.6 | 2895.5 | 3085.2 | 3674.1 | 4312.9 |
| 50° | 3334.9 | 3293.0 | 3197.3 | 3097.1 | 3070.5 | 2956.6 | 3085.8 | 3311.1 | 3921.6 | 4644.8 |
| 52.5° | 3414.8 | 3369.5 | 3244.3 | 3188.8 | 3180.9 | 3110.1 | 3320.2 | 3569.4 | 4169.1 | 4938.1 |
| 55° | 3499.7 | 3449.3 | 3289.6 | 3239.8 | 3276.0 | 3282.3 | 3598.3 | 3862.1 | 4430.7 | 5224.1 |
| 57.5° | 3597.7 | 3533.7 | 3333.2 | 3282.8 | 3368.9 | 3483.9 | 3917.6 | 4165.7 | 4687.8 | 5489.1 |
| 60° | 3690.0 | 3625.4 | 3417.0 | 3351.3 | 3469.1 | 3717.7 | 4284.0 | 4533.2 | 4978.9 | 5725.3 |
| 62.5° | 3708.1 | 3654.9 | 3483.9 | 3483.3 | 3605.1 | 3990.7 | 4717.8 | 4904.1 | 5233.2 | 5958.6 |
| 65° | 3394.4 | 3361.0 | 3259.6 | 3478.2 | 3799.9 | 4383.7 | 5200.9 | 5378.7 | 5556.5 | 6162.5 |
| 67.5° | 2583.4 | 2588.0 | 2580.6 | 3002.5 | 3642.4 | 4948.3 | 5900.3 | 5886.7 | 5955.8 | 6391.2 |
| 70° | 1181.3 | 1207.9 | 1381.2 | 2072.6 | 2918.1 | 5013.4 | 7056.6 | 6880.5 | 6456.9 | 6687.4 |
| 72.5° | 638.2 | 658.6 | 729.4 | 1004.0 | 1754.4 | 4457.3 | 7920.8 | 8046.0 | 7123.5 | 6886.7 |
| 75° | 468.3 | 479.7 | 528.9 | 638.2 | 736.8 | 3312.8 | 7611.0 | 8253.2 | 7206.7 | 6421.8 |
| 77.5° | 350.5 | 355.6 | 395.8 | 505.7 | 377.2 | 1746.5 | 6081.5 | 6835.2 | 6169.2 | 5276.2 |
| 80° | 254.3 | 259.9 | 289.9 | 379.4 | 264.5 | 638.8 | 4175.9 | 4797.7 | 4225.1 | 3363.2 |
| 82.5° | 175.6 | 177.8 | 190.8 | 258.2 | 184.6 | 248.0 | 2369.4 | 2813.4 | 2358.6 | 1180.2 |
| 85° | 105.9 | 108.7 | 114.4 | 150.6 | 104.8 | 117.8 | 1022.7 | 1057.8 | 705.0 | 282.0 |
| 87.5° | 43.6 | 46.4 | 51.0 | 63.4 | 41.3 | 32.8 | 168.8 | 211.8 | 131.9 | 82.7 |
| 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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CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1932.2 | 0° | 1932.2 | 1932.2 | 1932.2 | 1932.2 | 1932.2 | 1932.2 | 1932.2 | 1932.2 | 1932.2 | 1932.2 |
| 1937.9 | 2.5° | 1935.0 | 1931.1 | 1920.3 | 1905.6 | 1892.0 | 1875.0 | 1867.6 | 1861.4 | 1855.8 | 1845.0 |
| 1953.2 | 5° | 1946.9 | 1936.2 | 1907.3 | 1869.9 | 1827.4 | 1781.0 | 1735.7 | 1704.6 | 1677.9 | 1658.1 |
| 1970.7 | 7.5° | 1965.1 | 1944.7 | 1892.0 | 1815.6 | 1718.1 | 1618.5 | 1528.4 | 1464.4 | 1416.3 | 1398.8 |
| 1995.6 | 10° | 1983.7 | 1959.4 | 1867.6 | 1732.9 | 1564.7 | 1411.2 | 1291.7 | 1226.0 | 1187.5 | 1175.1 |
| 2025.1 | 12.5° | 2005.8 | 1970.1 | 1829.7 | 1617.9 | 1393.1 | 1224.9 | 1120.7 | 1082.2 | 1062.4 | 1055.6 |
| 2061.3 | 15° | 2038.1 | 1979.2 | 1772.5 | 1474.1 | 1229.4 | 1089.0 | 1021.6 | 995.0 | 984.8 | 984.2 |
| 2098.7 | 17.5° | 2062.5 | 1980.9 | 1683.6 | 1320.0 | 1103.7 | 1006.9 | 951.4 | 941.2 | 948.0 | 958.2 |
| 2135.5 | 20° | 2089.6 | 1965.6 | 1566.9 | 1179.6 | 1015.4 | 935.0 | 911.7 | 918.5 | 935.0 | 949.7 |
| 2184.2 | 22.5° | 2108.9 | 1937.9 | 1425.9 | 1070.3 | 938.9 | 893.6 | 892.5 | 906.6 | 915.7 | 923.1 |
| 2241.4 | 25° | 2125.9 | 1890.9 | 1276.4 | 978.6 | 876.1 | 868.7 | 881.2 | 876.6 | 870.4 | 876.6 |
| 2298.6 | 27.5° | 2138.3 | 1816.7 | 1142.8 | 898.1 | 831.9 | 851.7 | 844.3 | 834.2 | 833.6 | 837.0 |
| 2366.0 | 30° | 2134.4 | 1717.6 | 1032.9 | 821.7 | 800.7 | 820.0 | 802.4 | 800.7 | 799.0 | 800.7 |
| 2467.4 | 32.5° | 2134.4 | 1604.9 | 948.5 | 769.0 | 780.9 | 773.6 | 771.9 | 767.9 | 761.1 | 760.5 |
| 2605.0 | 35° | 2146.3 | 1492.2 | 876.1 | 740.7 | 764.5 | 746.9 | 748.1 | 738.5 | 724.3 | 717.5 |
| 2787.3 | 37.5° | 2170.6 | 1401.6 | 804.1 | 727.1 | 735.6 | 735.1 | 730.5 | 714.1 | 689.2 | 667.7 |
| 3015.0 | 40° | 2229.5 | 1375.0 | 754.9 | 720.9 | 722.0 | 728.8 | 716.9 | 685.2 | 628.6 | 593.5 |
| 3246.0 | 42.5° | 2321.8 | 1419.7 | 744.1 | 705.6 | 713.0 | 719.8 | 696.5 | 622.9 | 582.7 | 561.8 |
| 3488.4 | 45° | 2439.0 | 1497.9 | 767.3 | 683.5 | 691.4 | 703.3 | 634.3 | 599.1 | 581.0 | 581.6 |
| 3728.5 | 47.5° | 2587.4 | 1580.0 | 810.4 | 664.3 | 660.3 | 667.1 | 592.9 | 571.4 | 546.5 | 552.7 |
| 3959.0 | 50° | 2759.0 | 1663.2 | 851.1 | 638.2 | 625.8 | 603.7 | 566.3 | 545.9 | 514.2 | 499.5 |
| 4181.5 | 52.5° | 2944.7 | 1743.6 | 867.6 | 606.5 | 588.4 | 562.9 | 548.2 | 523.3 | 484.8 | 460.4 |
| 4391.6 | 55° | 3120.9 | 1816.7 | 849.4 | 568.6 | 551.0 | 531.2 | 528.9 | 513.6 | 472.3 | 438.3 |
| 4578.5 | 57.5° | 3287.4 | 1877.8 | 804.1 | 530.1 | 513.1 | 501.2 | 516.5 | 509.1 | 457.0 | 413.4 |
| 4755.2 | 60° | 3428.4 | 1919.7 | 738.5 | 491.0 | 479.1 | 472.9 | 496.1 | 493.8 | 435.5 | 386.8 |
| 4913.8 | 62.5° | 3540.5 | 1936.2 | 666.0 | 453.6 | 450.8 | 439.4 | 467.8 | 467.8 | 408.3 | 360.7 |
| 5053.1 | 65° | 3628.3 | 1920.3 | 592.3 | 416.8 | 422.5 | 405.5 | 433.2 | 429.8 | 379.4 | 337.5 |
| 5213.3 | 67.5° | 3705.9 | 1868.2 | 510.8 | 380.6 | 393.6 | 372.1 | 397.0 | 389.0 | 347.7 | 314.3 |
| 5352.1 | 70° | 3740.4 | 1747.0 | 417.9 | 344.3 | 360.2 | 339.2 | 360.7 | 346.0 | 312.0 | 289.4 |
| 5199.7 | 72.5° | 3462.9 | 1452.0 | 329.0 | 306.4 | 320.0 | 303.0 | 321.7 | 304.7 | 273.5 | 263.3 |
| 4490.2 | 75° | 2864.9 | 1089.6 | 253.1 | 265.0 | 275.2 | 262.2 | 274.7 | 262.2 | 233.9 | 241.2 |
| 3316.8 | 77.5° | 2080.6 | 735.6 | 193.7 | 221.4 | 226.0 | 219.2 | 229.9 | 215.8 | 190.3 | 188.6 |
| 1653.0 | 80° | 1034.6 | 431.0 | 151.8 | 175.0 | 173.3 | 168.8 | 181.2 | 174.4 | 152.9 | 162.0 |
| 446.2 | 82.5° | 299.6 | 184.6 | 110.4 | 122.9 | 119.5 | 120.6 | 129.7 | 133.1 | 199.3 | 197.6 |
| 138.7 | 85° | 94.0 | 72.5 | 66.3 | 68.5 | 65.1 | 66.8 | 76.5 | 151.8 | 140.4 | 82.1 |
| 43.0 | 87.5° | 24.4 | 24.9 | 16.4 | 17.6 | 18.1 | 21.5 | 24.4 | 92.3 | 44.2 | 28.9 |
| 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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|--------|
| 180° |
| 1932.2 |
| 1839.9 |
| 1641.7 |
| 1368.2 |
| 1155.8 |
| 1057.3 |
| 986.5 |
| 962.1 |
| 954.8 |
| 927.0 |
| 880.6 |
| 842.7 |
| 807.0 |
| 767.9 |
| 724.3 |
| 675.0 |
| 598.0 |
| 561.8 |
| 584.4 |
| 568.6 |
| 503.4 |
| 459.8 |
| 438.3 |
| 411.1 |
| 385.1 |
| 359.0 |
| 335.2 |
| 312.0 |
| 284.8 |
| 254.8 |
| 220.3 |
| 180.1 |
| 160.3 |
| 202.2 |
| 88.9 |
| 30.6 |
| 0.0 |

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