

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: P946474

Luminaire Tested: **GALN-SB2A-840-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946474
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2A-840-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8529 lumens
Efficiency: N/A
Efficacy: 148.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

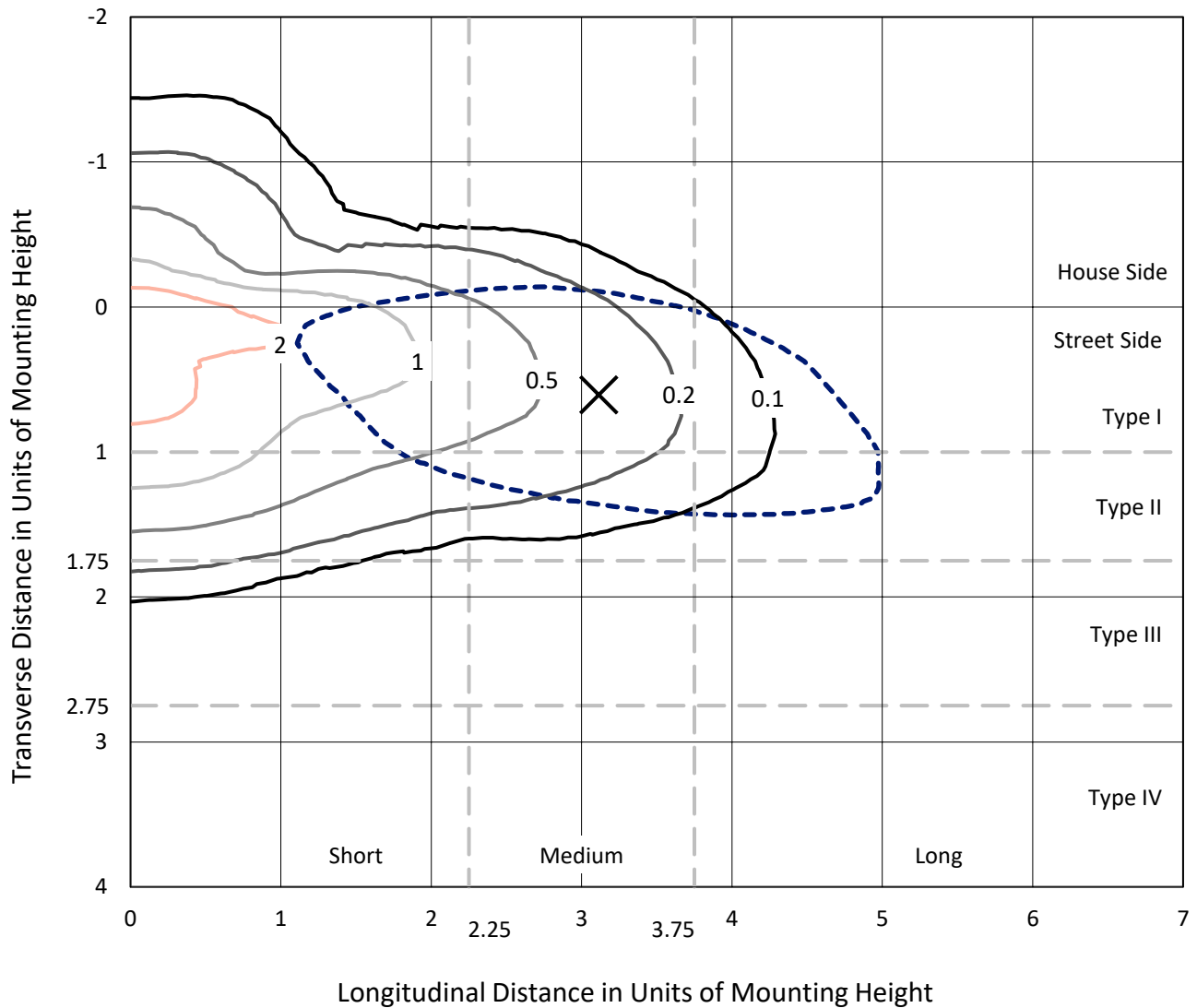
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

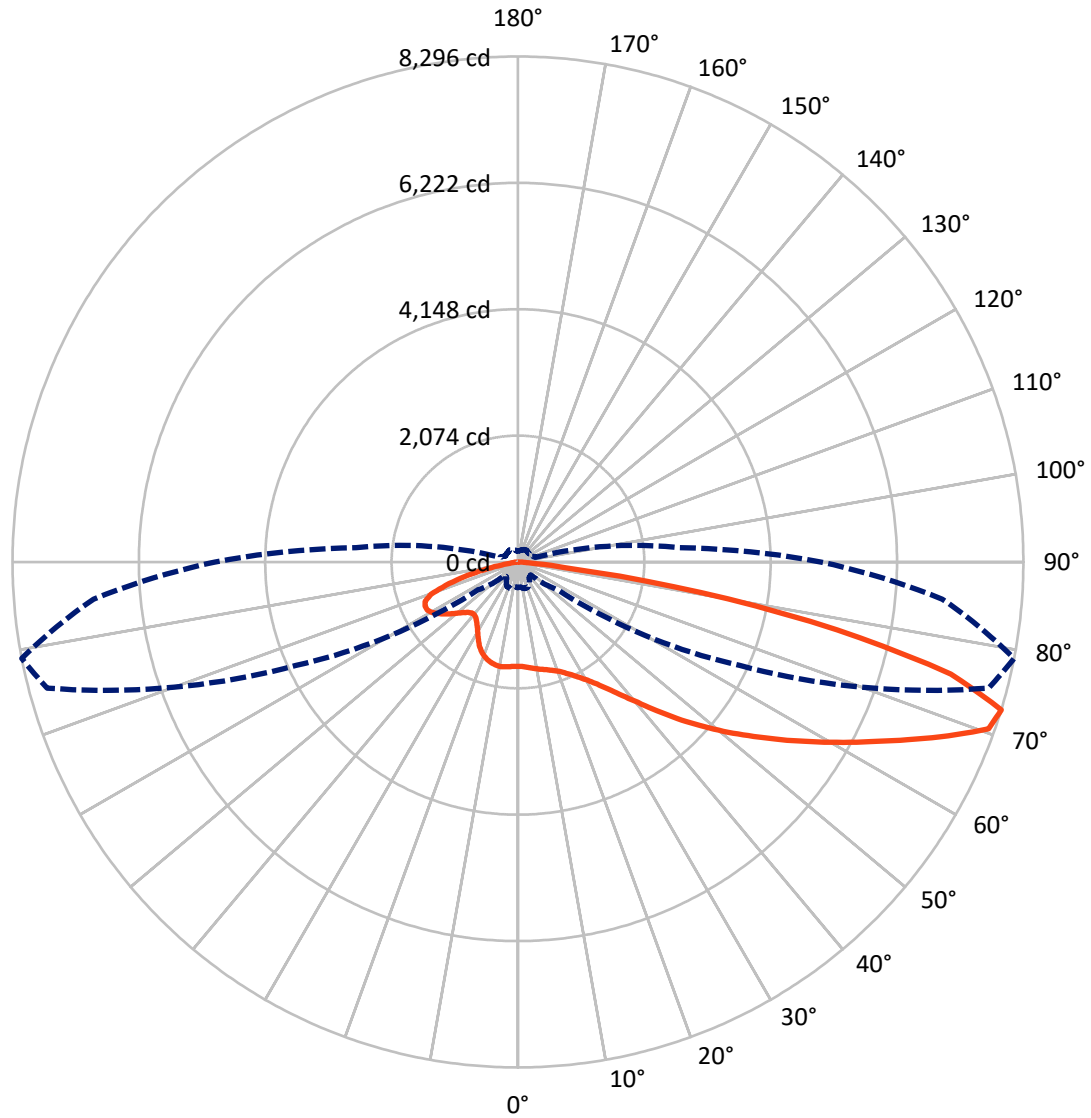
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1876.8 | 0.0 | 1876.8 |
| | % Fixture | 22.0 | 0.0 | 22.0 |
| Street Side | Lumens | 6652.2 | 0.0 | 6652.2 |
| | % Fixture | 78.0 | 0.0 | 78.0 |
| Total | Lumens | 8529.0 | 0.0 | 8529.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 155.4 | 1.8 |
| 10°-20° | 406.3 | 4.8 |
| 20°-30° | 655.6 | 7.7 |
| 30°-40° | 984.0 | 11.5 |
| 40°-50° | 1395.9 | 16.4 |
| 50°-60° | 1762.8 | 20.7 |
| 60°-70° | 1790.4 | 21.0 |
| 70°-80° | 1220.2 | 14.3 |
| 80°-90° | 158.3 | 1.9 |
| 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° | 8529.0 | 100.0 |
| 0°-180° | 8529.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P946474

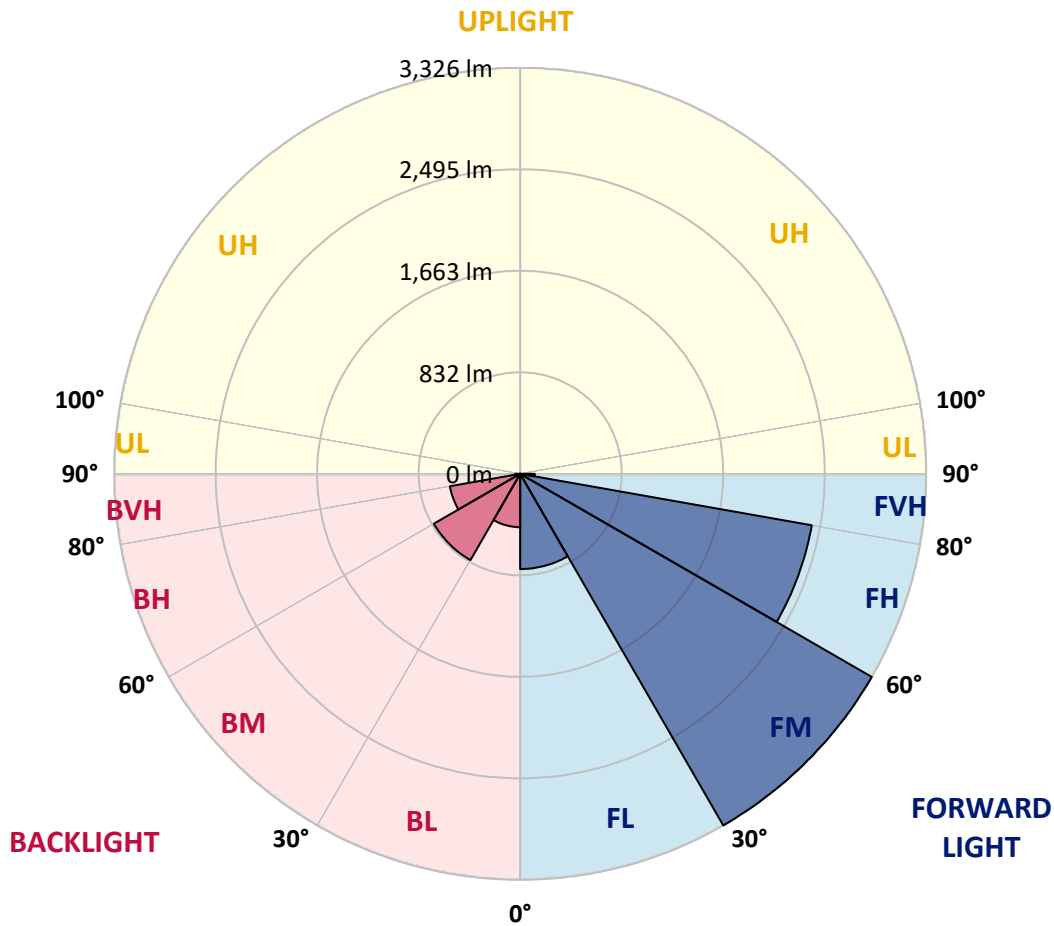
CATALOG NUMBER: GALN-SB2A-840-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 780.2 | 9.1 | | | |
| FM (30°-60°) | 3326.5 | 39.0 | | | |
| FH (60°-80°) | 2426.2 | 28.4 | | | G2/5000 |
| FVH (80°-90°) | 119.3 | 1.4 | | | G2/225 |
| BL (0°-30°) | 437.2 | 5.1 | B1/500 | | |
| BM (30°-60°) | 816.2 | 9.6 | B1/1000 | | |
| BH (60°-80°) | 584.4 | 6.9 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 39.1 | 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-G2

Type II Medium



REPORT NUMBER: P946474

CATALOG NUMBER: GALN-SB2A-840-U-SL2

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 79° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1712.1 | 1712.1 | 1712.1 | 1712.1 | 1712.1 | 1712.1 | 1712.1 | 1712.1 | 1712.1 | 1712.1 |
| 2.5° | 1713.0 | 1704.9 | 1709.9 | 1708.1 | 1710.3 | 1713.0 | 1713.9 | 1715.3 | 1719.8 | 1719.3 |
| 5° | 1709.4 | 1701.3 | 1708.1 | 1705.8 | 1711.7 | 1718.0 | 1723.4 | 1728.4 | 1735.6 | 1738.7 |
| 7.5° | 1701.7 | 1696.3 | 1703.1 | 1709.9 | 1720.7 | 1730.2 | 1737.8 | 1749.1 | 1759.5 | 1761.3 |
| 10° | 1657.1 | 1653.0 | 1668.8 | 1686.4 | 1716.2 | 1741.9 | 1758.6 | 1771.7 | 1782.9 | 1784.8 |
| 12.5° | 1610.6 | 1605.6 | 1623.2 | 1647.2 | 1695.4 | 1741.9 | 1777.1 | 1794.2 | 1804.2 | 1810.0 |
| 15° | 1602.9 | 1598.9 | 1608.8 | 1629.6 | 1669.7 | 1729.7 | 1789.7 | 1821.3 | 1829.9 | 1836.6 |
| 17.5° | 1639.9 | 1632.3 | 1636.3 | 1643.5 | 1667.0 | 1718.4 | 1799.6 | 1852.0 | 1865.1 | 1872.3 |
| 20° | 1725.7 | 1714.8 | 1708.5 | 1694.1 | 1690.0 | 1720.2 | 1798.7 | 1889.0 | 1906.1 | 1915.1 |
| 22.5° | 1839.8 | 1832.6 | 1819.0 | 1782.5 | 1742.8 | 1742.3 | 1815.9 | 1936.3 | 1968.4 | 1976.9 |
| 25° | 1977.8 | 1967.0 | 1949.9 | 1900.2 | 1824.0 | 1786.1 | 1844.8 | 1996.8 | 2050.5 | 2052.7 |
| 27.5° | 2136.6 | 2120.4 | 2096.9 | 2031.5 | 1928.7 | 1854.7 | 1889.0 | 2066.3 | 2144.8 | 2143.9 |
| 30° | 2304.0 | 2287.8 | 2263.0 | 2183.6 | 2054.1 | 1947.2 | 1950.3 | 2141.2 | 2256.7 | 2251.7 |
| 32.5° | 2426.3 | 2414.1 | 2409.1 | 2347.8 | 2198.5 | 2056.3 | 2020.7 | 2224.2 | 2394.7 | 2390.2 |
| 35° | 2520.1 | 2504.3 | 2510.2 | 2479.1 | 2355.9 | 2178.6 | 2106.9 | 2323.0 | 2562.5 | 2562.1 |
| 37.5° | 2613.1 | 2599.1 | 2604.0 | 2583.3 | 2501.6 | 2333.8 | 2212.0 | 2443.9 | 2770.5 | 2780.4 |
| 40° | 2697.9 | 2683.0 | 2702.8 | 2683.4 | 2614.9 | 2498.9 | 2331.5 | 2580.6 | 3011.4 | 3030.4 |
| 42.5° | 2748.9 | 2737.1 | 2770.1 | 2770.5 | 2713.2 | 2638.3 | 2462.8 | 2731.3 | 3290.2 | 3332.6 |
| 45° | 2766.5 | 2762.4 | 2812.0 | 2822.4 | 2800.3 | 2719.1 | 2581.0 | 2895.5 | 3590.7 | 3666.5 |
| 47.5° | 2747.5 | 2739.8 | 2808.4 | 2846.8 | 2864.4 | 2757.0 | 2678.9 | 3073.2 | 3897.5 | 4008.5 |
| 50° | 2651.9 | 2637.0 | 2738.9 | 2819.7 | 2882.4 | 2781.8 | 2777.7 | 3278.5 | 4246.2 | 4367.6 |
| 52.5° | 2480.0 | 2468.7 | 2584.6 | 2724.9 | 2842.7 | 2794.0 | 2888.7 | 3502.7 | 4577.4 | 4734.4 |
| 55° | 2260.3 | 2245.4 | 2373.1 | 2556.2 | 2743.9 | 2789.9 | 2999.7 | 3753.6 | 4968.1 | 5127.3 |
| 57.5° | 1912.0 | 1882.2 | 2043.7 | 2260.3 | 2582.8 | 2785.0 | 3115.2 | 4003.1 | 5365.1 | 5555.9 |
| 60° | 1404.0 | 1359.8 | 1557.8 | 1814.5 | 2267.9 | 2736.7 | 3258.2 | 4282.8 | 5841.5 | 6013.4 |
| 62.5° | 817.5 | 791.8 | 921.2 | 1160.8 | 1709.4 | 2452.5 | 3338.5 | 4608.0 | 6309.8 | 6490.2 |
| 65° | 634.8 | 627.6 | 638.8 | 657.3 | 951.5 | 1836.2 | 3090.8 | 4925.2 | 6905.3 | 7031.6 |
| 67.5° | 580.6 | 575.2 | 580.2 | 545.4 | 482.7 | 1022.8 | 2445.2 | 5005.5 | 7543.2 | 7619.9 |
| 70° | 516.1 | 509.8 | 526.0 | 496.3 | 379.9 | 465.1 | 1579.9 | 4714.1 | 8050.8 | 8194.7 |
| 72.5° | 420.5 | 413.3 | 451.2 | 437.6 | 319.9 | 298.7 | 793.6 | 4021.6 | 7997.5 | 8296.2 |
| 75° | 323.0 | 319.0 | 364.1 | 375.4 | 260.8 | 235.0 | 380.8 | 2989.3 | 7037.9 | 7338.9 |
| 77.5° | 250.8 | 247.7 | 270.7 | 311.7 | 210.2 | 182.3 | 234.1 | 1896.2 | 5303.7 | 5356.5 |
| 80° | 188.1 | 179.1 | 200.3 | 241.4 | 163.8 | 133.1 | 158.8 | 1105.8 | 3352.5 | 3038.9 |
| 82.5° | 117.8 | 113.2 | 130.8 | 161.1 | 115.5 | 91.6 | 103.3 | 610.9 | 1343.5 | 791.3 |
| 85° | 67.2 | 65.4 | 71.3 | 92.0 | 62.7 | 52.8 | 59.1 | 269.8 | 245.4 | 168.7 |
| 87.5° | 27.1 | 26.2 | 32.5 | 41.1 | 23.0 | 19.4 | 20.8 | 65.0 | 54.1 | 50.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P946474
 CATALOG NUMBER: GALN-SB2A-840-U-SL2

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1712.1 | 0° | 1712.1 | 1712.1 | 1712.1 | 1712.1 | 1712.1 | 1712.1 | 1712.1 | 1712.1 | 1712.1 | 1712.1 |
| 1718.9 | 2.5° | 1717.1 | 1717.1 | 1710.8 | 1700.8 | 1689.6 | 1682.3 | 1670.6 | 1667.5 | 1655.3 | 1651.7 |
| 1734.2 | 5° | 1737.8 | 1734.2 | 1714.8 | 1686.9 | 1648.5 | 1613.3 | 1574.5 | 1550.2 | 1515.9 | 1503.7 |
| 1764.4 | 7.5° | 1764.0 | 1754.1 | 1720.7 | 1659.3 | 1579.0 | 1500.1 | 1418.0 | 1355.7 | 1296.2 | 1275.0 |
| 1789.3 | 10° | 1787.9 | 1773.9 | 1717.1 | 1609.7 | 1470.8 | 1334.1 | 1203.2 | 1111.6 | 1042.2 | 1013.7 |
| 1816.8 | 12.5° | 1811.8 | 1786.1 | 1693.2 | 1527.1 | 1316.9 | 1131.5 | 992.1 | 920.8 | 877.9 | 843.7 |
| 1839.3 | 15° | 1834.4 | 1798.3 | 1656.2 | 1416.6 | 1148.2 | 960.0 | 857.2 | 800.3 | 766.1 | 743.5 |
| 1872.3 | 17.5° | 1860.5 | 1808.7 | 1600.7 | 1276.3 | 987.6 | 841.4 | 757.5 | 723.2 | 716.4 | 713.7 |
| 1917.4 | 20° | 1897.1 | 1818.1 | 1527.6 | 1119.3 | 869.4 | 746.7 | 703.3 | 700.2 | 699.7 | 698.4 |
| 1971.5 | 22.5° | 1936.3 | 1829.4 | 1431.0 | 976.7 | 768.8 | 687.6 | 679.9 | 673.6 | 669.5 | 669.1 |
| 2036.9 | 25° | 1982.8 | 1833.0 | 1310.1 | 859.9 | 683.0 | 659.6 | 650.6 | 641.1 | 638.4 | 638.4 |
| 2111.4 | 27.5° | 2027.9 | 1820.8 | 1169.4 | 758.4 | 634.8 | 633.9 | 622.1 | 619.0 | 618.5 | 619.9 |
| 2196.2 | 30° | 2073.0 | 1797.8 | 1029.5 | 664.5 | 606.8 | 606.8 | 602.7 | 605.0 | 606.8 | 611.3 |
| 2312.6 | 32.5° | 2133.9 | 1773.5 | 912.7 | 595.1 | 582.4 | 577.9 | 582.0 | 586.5 | 588.3 | 594.2 |
| 2465.5 | 35° | 2223.3 | 1756.3 | 819.7 | 557.2 | 557.2 | 551.3 | 553.6 | 552.7 | 548.6 | 545.9 |
| 2650.5 | 37.5° | 2341.5 | 1755.4 | 743.0 | 539.6 | 536.0 | 535.1 | 535.5 | 529.7 | 513.9 | 494.9 |
| 2874.3 | 40° | 2483.6 | 1779.8 | 683.9 | 527.4 | 524.7 | 530.1 | 527.4 | 511.6 | 468.3 | 435.4 |
| 3149.5 | 42.5° | 2674.4 | 1849.3 | 646.0 | 512.5 | 520.6 | 527.4 | 516.6 | 462.0 | 432.7 | 410.5 |
| 3463.0 | 45° | 2899.1 | 1962.1 | 626.6 | 496.7 | 513.0 | 521.1 | 468.7 | 444.8 | 421.4 | 394.8 |
| 3805.0 | 47.5° | 3153.5 | 2104.2 | 622.1 | 481.8 | 495.8 | 500.8 | 448.4 | 437.6 | 411.0 | 382.1 |
| 4148.8 | 50° | 3430.5 | 2272.4 | 634.3 | 464.2 | 471.0 | 453.9 | 441.7 | 431.8 | 404.2 | 375.8 |
| 4501.1 | 52.5° | 3717.0 | 2457.9 | 658.7 | 440.3 | 446.2 | 427.2 | 439.0 | 430.4 | 400.2 | 361.8 |
| 4865.2 | 55° | 3998.5 | 2644.6 | 682.1 | 412.4 | 420.9 | 403.3 | 431.3 | 425.0 | 381.7 | 338.4 |
| 5253.6 | 57.5° | 4284.6 | 2830.5 | 705.1 | 387.5 | 396.6 | 380.3 | 419.1 | 410.5 | 360.9 | 316.7 |
| 5677.7 | 60° | 4581.9 | 3011.0 | 716.0 | 363.6 | 369.9 | 359.1 | 400.6 | 385.7 | 337.5 | 294.6 |
| 6094.6 | 62.5° | 4860.2 | 3161.2 | 698.4 | 339.7 | 343.8 | 339.3 | 376.3 | 356.4 | 314.0 | 269.8 |
| 6529.0 | 65° | 5139.5 | 3250.5 | 644.2 | 316.3 | 317.2 | 314.9 | 342.0 | 324.8 | 286.5 | 248.1 |
| 6909.4 | 67.5° | 5392.6 | 3300.6 | 558.1 | 291.0 | 288.7 | 287.8 | 309.9 | 290.5 | 259.9 | 226.5 |
| 7198.6 | 70° | 5446.3 | 3173.4 | 426.3 | 261.2 | 261.2 | 259.0 | 274.8 | 254.9 | 230.5 | 203.5 |
| 6991.5 | 72.5° | 4974.4 | 2669.5 | 302.7 | 227.4 | 231.0 | 226.5 | 239.6 | 222.9 | 200.8 | 182.7 |
| 6025.6 | 75° | 4011.2 | 1957.5 | 220.2 | 192.6 | 199.0 | 191.3 | 203.5 | 191.7 | 172.8 | 172.3 |
| 4152.4 | 77.5° | 2756.1 | 1210.4 | 159.7 | 158.8 | 163.3 | 153.4 | 167.4 | 161.1 | 143.9 | 136.2 |
| 1807.3 | 80° | 1176.1 | 482.7 | 116.4 | 122.7 | 122.7 | 113.7 | 129.9 | 131.7 | 116.8 | 113.2 |
| 348.7 | 82.5° | 234.1 | 137.1 | 81.7 | 84.4 | 79.4 | 76.7 | 92.0 | 102.0 | 140.8 | 156.5 |
| 105.1 | 85° | 70.4 | 50.5 | 49.2 | 46.0 | 40.6 | 41.1 | 54.1 | 102.4 | 126.3 | 72.2 |
| 34.7 | 87.5° | 19.4 | 12.6 | 13.1 | 10.4 | 8.6 | 11.3 | 18.5 | 77.6 | 42.4 | 18.0 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END O

| <u>180°</u> |
|-------------|
| 1712.1 |
| 1657.5 |
| 1512.7 |
| 1277.7 |
| 1020.1 |
| 854.9 |
| 747.6 |
| 715.5 |
| 702.9 |
| 674.0 |
| 641.1 |
| 623.5 |
| 614.5 |
| 599.1 |
| 552.2 |
| 495.4 |
| 434.5 |
| 409.6 |
| 393.0 |
| 379.9 |
| 372.7 |
| 359.1 |
| 336.1 |
| 315.8 |
| 293.2 |
| 269.3 |
| 245.4 |
| 223.8 |
| 202.6 |
| 177.3 |
| 155.2 |
| 127.7 |
| 113.2 |
| 157.0 |
| 62.3 |
| 15.3 |
| 0.0 |

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