

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: P940577

Luminaire Tested: **GALN-SB3C-950-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940577
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3C-950-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15642 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

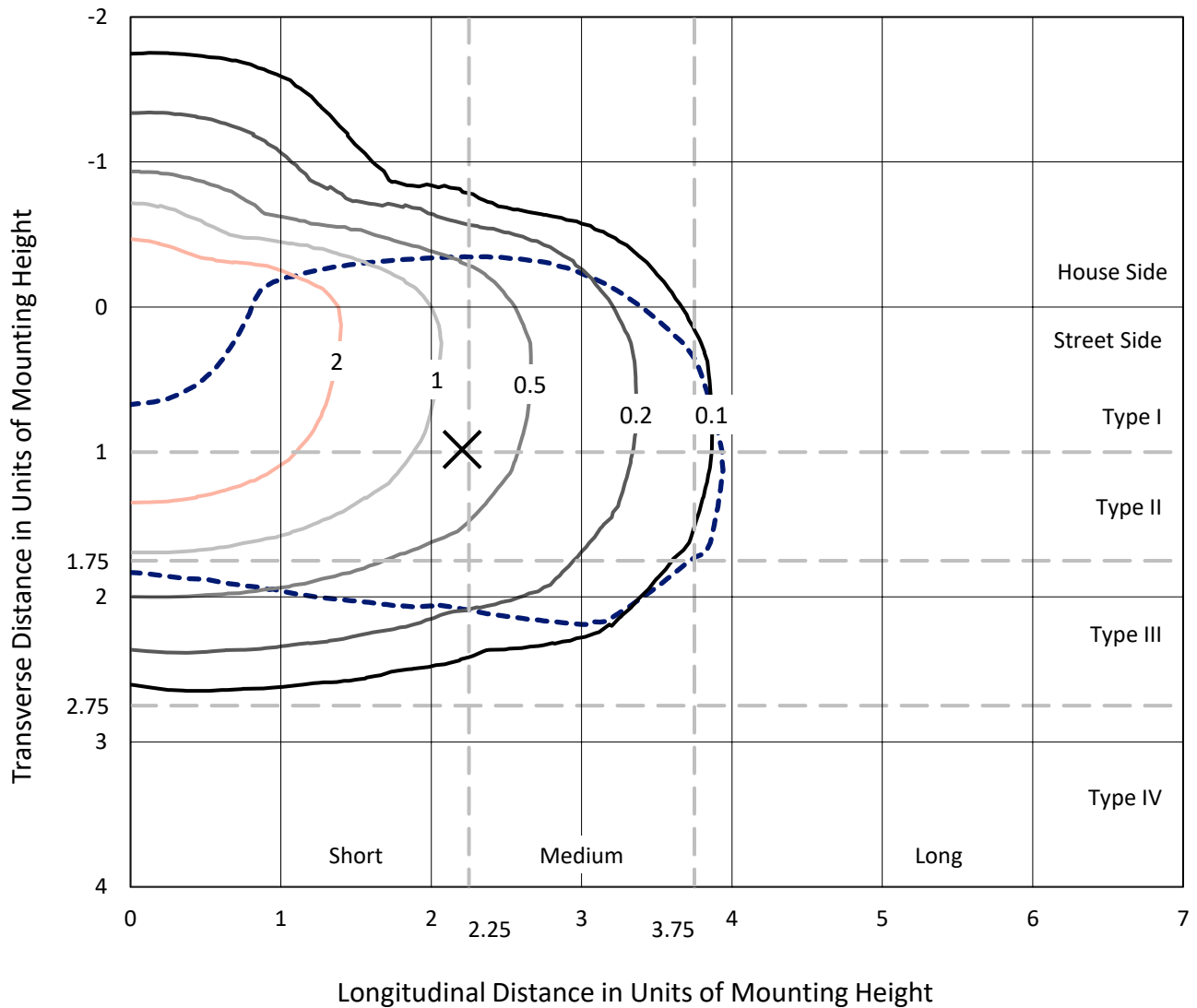
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

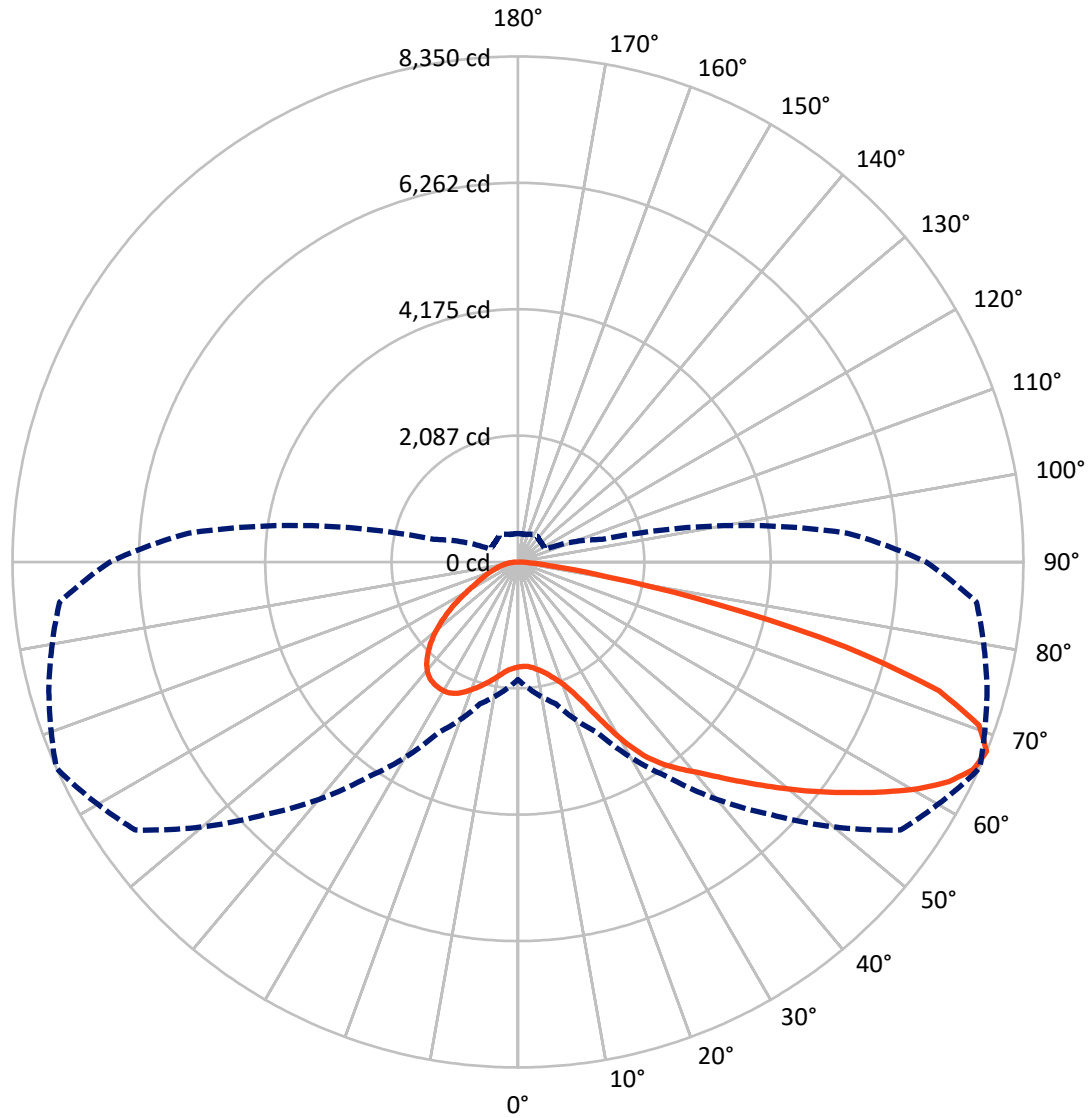
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3889.3 | 0.0 | 3889.3 |
| | % Fixture | 24.9 | 0.0 | 24.9 |
| Street Side | Lumens | 11752.7 | 0.0 | 11752.7 |
| | % Fixture | 75.1 | 0.0 | 75.1 |
| Total | Lumens | 15642.0 | 0.0 | 15642.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 172.0 | 1.1 |
| 10°-20° | 568.3 | 3.6 |
| 20°-30° | 1095.4 | 7.0 |
| 30°-40° | 1920.6 | 12.3 |
| 40°-50° | 2855.3 | 18.3 |
| 50°-60° | 3619.3 | 23.1 |
| 60°-70° | 3541.4 | 22.6 |
| 70°-80° | 1689.3 | 10.8 |
| 80°-90° | 180.5 | 1.2 |
| 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° | 15642.0 | 100.0 |
| 0°-180° | 15642.0 | 100.0 |

Coefficient of Utilization



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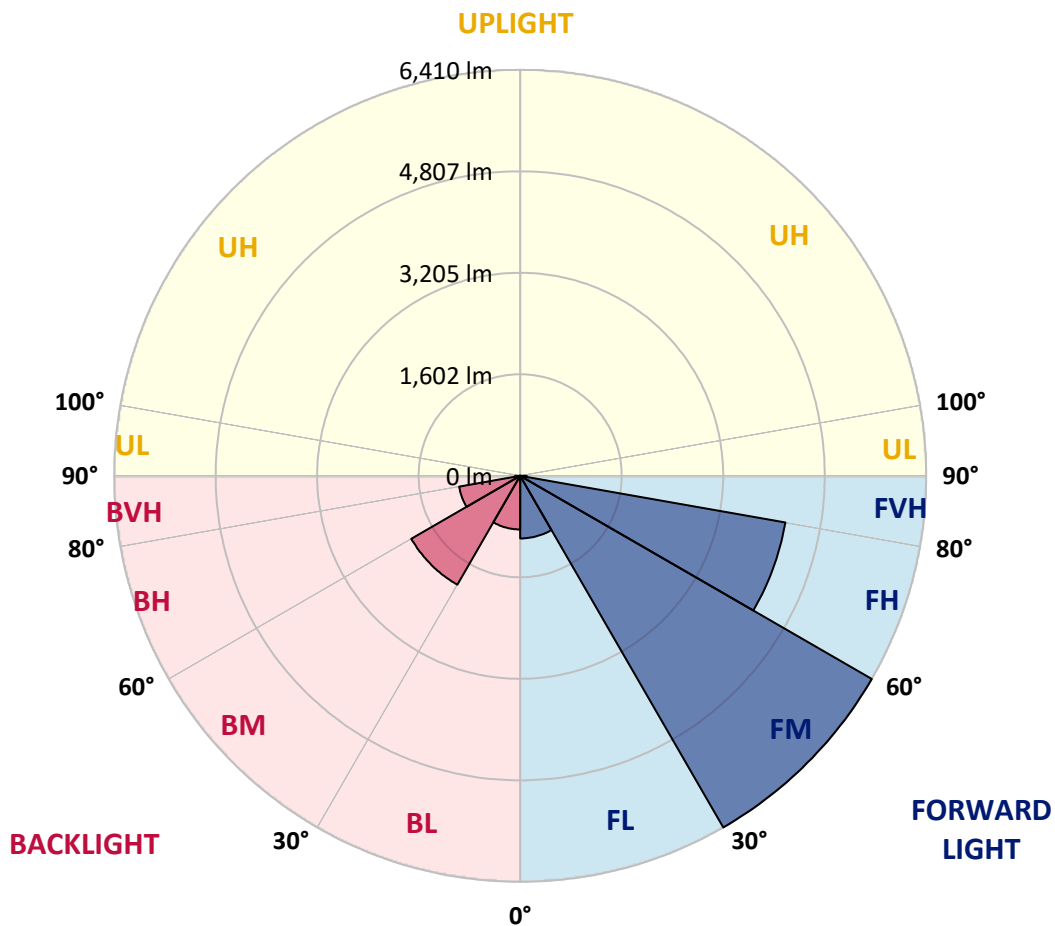
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 988.4 | 6.3 | | | |
| FM (30°-60°) | 6410.0 | 41.0 | | | |
| FH (60°-80°) | 4251.9 | 27.2 | | | G2/5000 |
| FVH (80°-90°) | 102.4 | 0.7 | | | G2/225 |
| BL (0°-30°) | 847.2 | 5.4 | B2/1000 | | |
| BM (30°-60°) | 1985.2 | 12.7 | B2/2500 | | |
| BH (60°-80°) | 978.8 | 6.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 78.2 | 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 III Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1734.9 | 1734.9 | 1734.9 | 1734.9 | 1734.9 | 1734.9 | 1734.9 | 1734.9 | 1734.9 | 1734.9 |
| 2.5° | 1716.8 | 1726.7 | 1724.2 | 1720.1 | 1719.3 | 1720.9 | 1723.4 | 1725.9 | 1725.0 | 1729.2 |
| 5° | 1711.9 | 1721.8 | 1720.9 | 1720.9 | 1724.2 | 1730.8 | 1734.9 | 1739.0 | 1734.9 | 1739.8 |
| 7.5° | 1715.2 | 1722.6 | 1725.9 | 1729.2 | 1737.4 | 1749.7 | 1759.6 | 1768.6 | 1763.7 | 1769.4 |
| 10° | 1757.1 | 1762.8 | 1766.1 | 1766.1 | 1771.9 | 1785.9 | 1795.7 | 1812.2 | 1808.0 | 1817.1 |
| 12.5° | 1833.5 | 1839.3 | 1839.3 | 1836.0 | 1840.1 | 1849.1 | 1852.4 | 1870.5 | 1863.1 | 1877.9 |
| 15° | 1927.2 | 1938.7 | 1929.7 | 1923.9 | 1925.6 | 1934.6 | 1933.8 | 1947.8 | 1940.4 | 1952.7 |
| 17.5° | 2030.8 | 2045.6 | 2030.8 | 2029.9 | 2026.7 | 2036.5 | 2037.3 | 2049.7 | 2036.5 | 2045.6 |
| 20° | 2153.2 | 2173.8 | 2161.4 | 2165.5 | 2158.2 | 2162.3 | 2166.4 | 2184.5 | 2163.9 | 2170.5 |
| 22.5° | 2325.8 | 2350.5 | 2337.3 | 2352.9 | 2348.0 | 2344.7 | 2343.9 | 2375.9 | 2343.9 | 2346.4 |
| 25° | 2577.3 | 2606.9 | 2583.9 | 2605.2 | 2605.2 | 2615.9 | 2628.2 | 2669.3 | 2615.9 | 2600.3 |
| 27.5° | 2948.8 | 2978.3 | 2933.1 | 2946.3 | 2942.2 | 2968.5 | 2955.3 | 3057.2 | 2999.7 | 2974.2 |
| 30° | 3395.8 | 3448.4 | 3363.0 | 3359.7 | 3355.6 | 3397.5 | 3416.4 | 3483.8 | 3425.4 | 3400.0 |
| 32.5° | 3879.1 | 3934.1 | 3832.2 | 3802.7 | 3787.0 | 3812.5 | 3796.9 | 3851.1 | 3810.9 | 3771.4 |
| 35° | 4390.3 | 4444.5 | 4347.5 | 4290.0 | 4227.5 | 4174.1 | 4118.2 | 4132.2 | 4094.4 | 4034.4 |
| 37.5° | 4873.5 | 4973.0 | 4870.2 | 4808.6 | 4693.5 | 4589.2 | 4433.0 | 4368.1 | 4332.7 | 4277.7 |
| 40° | 5365.8 | 5422.5 | 5344.4 | 5291.8 | 5166.9 | 5003.4 | 4753.5 | 4616.3 | 4568.6 | 4515.2 |
| 42.5° | 5728.2 | 5782.5 | 5740.6 | 5704.4 | 5606.6 | 5416.7 | 5093.8 | 4922.0 | 4853.0 | 4793.0 |
| 45° | 6015.9 | 6056.1 | 6029.8 | 6043.0 | 6001.1 | 5817.0 | 5446.3 | 5249.9 | 5178.4 | 5105.3 |
| 47.5° | 6131.7 | 6174.5 | 6216.4 | 6294.5 | 6366.0 | 6230.4 | 5825.2 | 5604.9 | 5529.3 | 5454.6 |
| 50° | 6118.6 | 6162.2 | 6283.8 | 6449.8 | 6671.7 | 6626.5 | 6224.6 | 5983.0 | 5913.1 | 5827.7 |
| 52.5° | 6013.4 | 6062.7 | 6218.9 | 6495.0 | 6848.4 | 6923.2 | 6631.4 | 6373.4 | 6307.6 | 6205.7 |
| 55° | 5737.3 | 5766.9 | 6001.1 | 6392.3 | 6890.3 | 7130.3 | 7030.0 | 6789.2 | 6723.5 | 6581.3 |
| 57.5° | 5225.3 | 5268.0 | 5609.1 | 6115.3 | 6785.1 | 7270.8 | 7380.1 | 7226.4 | 7163.2 | 6958.5 |
| 60° | 4557.1 | 4625.3 | 5015.7 | 5650.2 | 6517.2 | 7270.0 | 7698.2 | 7656.3 | 7603.7 | 7330.0 |
| 62.5° | 3801.0 | 3879.9 | 4255.5 | 4992.7 | 6048.7 | 7063.7 | 7897.1 | 8016.2 | 7989.1 | 7672.7 |
| 65° | 2919.2 | 2973.4 | 3347.4 | 4142.1 | 5319.8 | 6620.7 | 7920.1 | 8262.0 | 8266.9 | 7933.2 |
| 67.5° | 1943.7 | 2099.8 | 2424.4 | 3108.2 | 4343.4 | 5896.7 | 7717.9 | 8302.2 | 8349.9 | 8022.8 |
| 70° | 948.4 | 1153.9 | 1471.9 | 2020.1 | 3108.2 | 4786.4 | 7189.5 | 7971.8 | 8077.9 | 7761.5 |
| 72.5° | 393.7 | 460.2 | 633.6 | 996.9 | 1784.2 | 3229.8 | 6127.6 | 7076.0 | 7272.5 | 6877.2 |
| 75° | 265.5 | 287.6 | 362.4 | 511.2 | 812.8 | 1592.7 | 4419.0 | 5276.2 | 5592.6 | 5194.0 |
| 77.5° | 204.6 | 218.6 | 263.8 | 357.5 | 483.2 | 602.4 | 2365.3 | 3179.7 | 3343.2 | 3095.0 |
| 80° | 161.1 | 171.8 | 197.2 | 260.5 | 342.7 | 322.2 | 806.2 | 1440.7 | 1535.2 | 1287.8 |
| 82.5° | 139.7 | 143.8 | 141.4 | 176.7 | 227.6 | 188.2 | 264.6 | 531.7 | 586.8 | 425.7 |
| 85° | 101.1 | 112.6 | 117.5 | 109.3 | 120.8 | 95.3 | 108.5 | 188.2 | 207.1 | 184.9 |
| 87.5° | 41.1 | 60.8 | 74.8 | 70.7 | 44.4 | 27.1 | 33.7 | 55.1 | 63.3 | 69.0 |
| 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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CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1734.9 | 0° | 1734.9 | 1734.9 | 1734.9 | 1734.9 | 1734.9 | 1734.9 | 1734.9 | 1734.9 | 1734.9 | 1734.9 |
| 1735.7 | 2.5° | 1736.5 | 1742.3 | 1746.4 | 1751.3 | 1754.6 | 1759.6 | 1769.4 | 1775.2 | 1776.0 | 1780.1 |
| 1748.9 | 5° | 1752.2 | 1760.4 | 1769.4 | 1782.6 | 1797.4 | 1809.7 | 1828.6 | 1841.7 | 1846.7 | 1850.8 |
| 1780.9 | 7.5° | 1785.9 | 1797.4 | 1813.8 | 1836.8 | 1858.2 | 1874.6 | 1897.6 | 1913.2 | 1928.9 | 1934.6 |
| 1831.9 | 10° | 1836.0 | 1852.4 | 1876.3 | 1907.5 | 1930.5 | 1951.9 | 1975.7 | 1988.9 | 2004.5 | 2011.0 |
| 1892.7 | 12.5° | 1898.5 | 1915.7 | 1946.9 | 1990.5 | 2011.9 | 2026.7 | 2034.9 | 2031.6 | 2034.9 | 2040.6 |
| 1965.8 | 15° | 1970.0 | 1988.9 | 2024.2 | 2071.0 | 2085.8 | 2072.7 | 2054.6 | 2038.2 | 2035.7 | 2037.3 |
| 2054.6 | 17.5° | 2054.6 | 2068.6 | 2109.7 | 2149.1 | 2138.4 | 2084.2 | 2044.7 | 2018.4 | 2005.3 | 2001.2 |
| 2168.0 | 20° | 2172.9 | 2172.9 | 2206.6 | 2231.3 | 2159.8 | 2067.7 | 2006.1 | 1963.4 | 1936.3 | 1924.7 |
| 2322.5 | 22.5° | 2316.8 | 2303.6 | 2325.0 | 2307.7 | 2155.7 | 2021.7 | 1936.3 | 1862.3 | 1821.2 | 1804.8 |
| 2538.7 | 25° | 2499.2 | 2483.6 | 2477.8 | 2371.0 | 2126.1 | 1948.6 | 1809.7 | 1720.1 | 1684.0 | 1674.9 |
| 2850.1 | 27.5° | 2774.5 | 2735.1 | 2660.3 | 2405.5 | 2071.9 | 1833.5 | 1661.8 | 1578.8 | 1558.2 | 1559.0 |
| 3250.4 | 30° | 3141.1 | 3062.2 | 2878.9 | 2411.3 | 1983.1 | 1670.8 | 1510.5 | 1451.4 | 1441.5 | 1445.6 |
| 3586.5 | 32.5° | 3480.5 | 3405.7 | 3102.4 | 2385.0 | 1846.7 | 1511.4 | 1374.9 | 1335.5 | 1320.7 | 1325.6 |
| 3842.9 | 35° | 3746.8 | 3726.2 | 3309.6 | 2348.0 | 1679.0 | 1361.8 | 1253.3 | 1219.6 | 1190.8 | 1184.3 |
| 4084.5 | 37.5° | 3998.3 | 3990.0 | 3464.9 | 2296.2 | 1513.0 | 1255.8 | 1155.5 | 1111.1 | 1069.2 | 1046.2 |
| 4351.6 | 40° | 4274.4 | 4266.2 | 3566.8 | 2216.5 | 1365.9 | 1163.7 | 1067.6 | 1009.2 | 957.4 | 915.5 |
| 4654.1 | 42.5° | 4585.0 | 4536.6 | 3615.3 | 2102.3 | 1241.0 | 1085.7 | 996.1 | 917.2 | 849.0 | 810.3 |
| 4996.0 | 45° | 4924.5 | 4815.2 | 3614.5 | 1956.8 | 1135.8 | 1014.2 | 919.6 | 807.9 | 744.6 | 708.4 |
| 5346.9 | 47.5° | 5284.4 | 5081.4 | 3570.1 | 1795.7 | 1033.9 | 935.3 | 801.3 | 715.8 | 673.9 | 651.7 |
| 5728.2 | 50° | 5655.9 | 5330.5 | 3494.5 | 1610.8 | 929.5 | 845.7 | 727.3 | 669.0 | 636.9 | 616.4 |
| 6106.3 | 52.5° | 6005.2 | 5556.5 | 3403.2 | 1401.2 | 823.5 | 758.6 | 694.5 | 649.3 | 615.6 | 592.5 |
| 6472.8 | 55° | 6329.8 | 5751.2 | 3274.2 | 1186.7 | 737.2 | 700.2 | 678.8 | 641.0 | 602.4 | 575.3 |
| 6845.1 | 57.5° | 6618.3 | 5877.8 | 3051.5 | 985.4 | 675.6 | 659.9 | 662.4 | 627.1 | 582.7 | 559.7 |
| 7211.6 | 60° | 6858.3 | 5970.7 | 2721.9 | 798.8 | 625.4 | 620.5 | 636.9 | 600.8 | 549.0 | 522.7 |
| 7521.5 | 62.5° | 7002.1 | 5969.0 | 2317.6 | 654.2 | 582.7 | 584.3 | 603.2 | 567.9 | 515.3 | 490.6 |
| 7683.4 | 65° | 6989.8 | 5822.7 | 1873.8 | 559.7 | 541.6 | 543.2 | 567.9 | 531.7 | 487.4 | 472.6 |
| 7602.0 | 67.5° | 6742.4 | 5466.1 | 1437.4 | 498.0 | 496.4 | 503.8 | 532.6 | 507.1 | 470.1 | 468.4 |
| 7117.1 | 70° | 6072.6 | 4725.6 | 1035.5 | 448.7 | 449.5 | 460.2 | 498.0 | 491.5 | 461.1 | 464.3 |
| 5983.8 | 72.5° | 4869.4 | 3602.9 | 695.3 | 396.9 | 397.8 | 415.0 | 465.2 | 479.1 | 452.0 | 495.6 |
| 4245.6 | 75° | 3243.0 | 2246.9 | 447.1 | 341.9 | 342.7 | 364.9 | 436.4 | 455.3 | 427.4 | 493.9 |
| 2209.1 | 77.5° | 1558.2 | 1010.0 | 323.8 | 287.6 | 287.6 | 308.2 | 377.2 | 407.6 | 364.1 | 383.8 |
| 710.1 | 80° | 538.3 | 379.7 | 254.8 | 231.8 | 226.8 | 240.8 | 318.1 | 353.4 | 313.9 | 289.3 |
| 231.8 | 82.5° | 212.0 | 197.2 | 204.6 | 180.0 | 163.5 | 172.6 | 247.4 | 291.8 | 230.9 | 208.7 |
| 130.7 | 85° | 121.6 | 128.2 | 144.6 | 119.2 | 94.5 | 106.0 | 181.6 | 209.6 | 174.2 | 153.7 |
| 42.7 | 87.5° | 32.9 | 45.2 | 66.6 | 61.6 | 42.7 | 45.2 | 86.3 | 115.9 | 100.3 | 77.3 |
| 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> |
|-------------|
| 1734.9 |
| 1779.3 |
| 1850.0 |
| 1935.4 |
| 2014.3 |
| 2042.3 |
| 2043.1 |
| 2006.9 |
| 1922.3 |
| 1802.3 |
| 1676.6 |
| 1561.5 |
| 1459.6 |
| 1332.2 |
| 1189.2 |
| 1047.0 |
| 919.6 |
| 812.8 |
| 706.8 |
| 646.8 |
| 609.0 |
| 582.7 |
| 564.6 |
| 544.9 |
| 511.2 |
| 483.2 |
| 471.7 |
| 470.9 |
| 463.5 |
| 502.1 |
| 498.0 |
| 351.7 |
| 271.2 |
| 207.9 |
| 157.0 |
| 79.7 |
| 0.0 |

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