

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: P939996

Luminaire Tested: **GALN-SB2D-835-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939996
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB2D-835-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14804 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

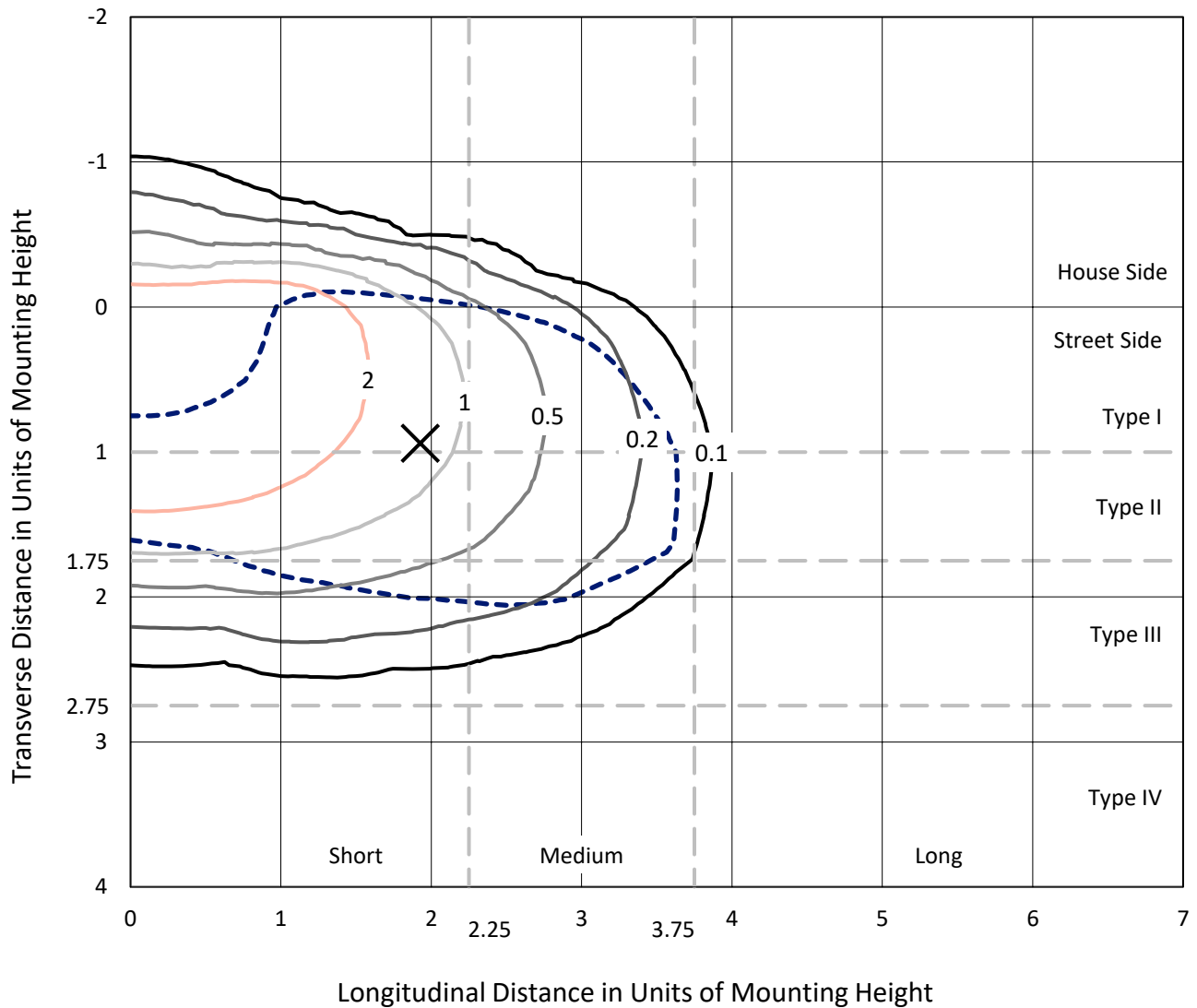
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

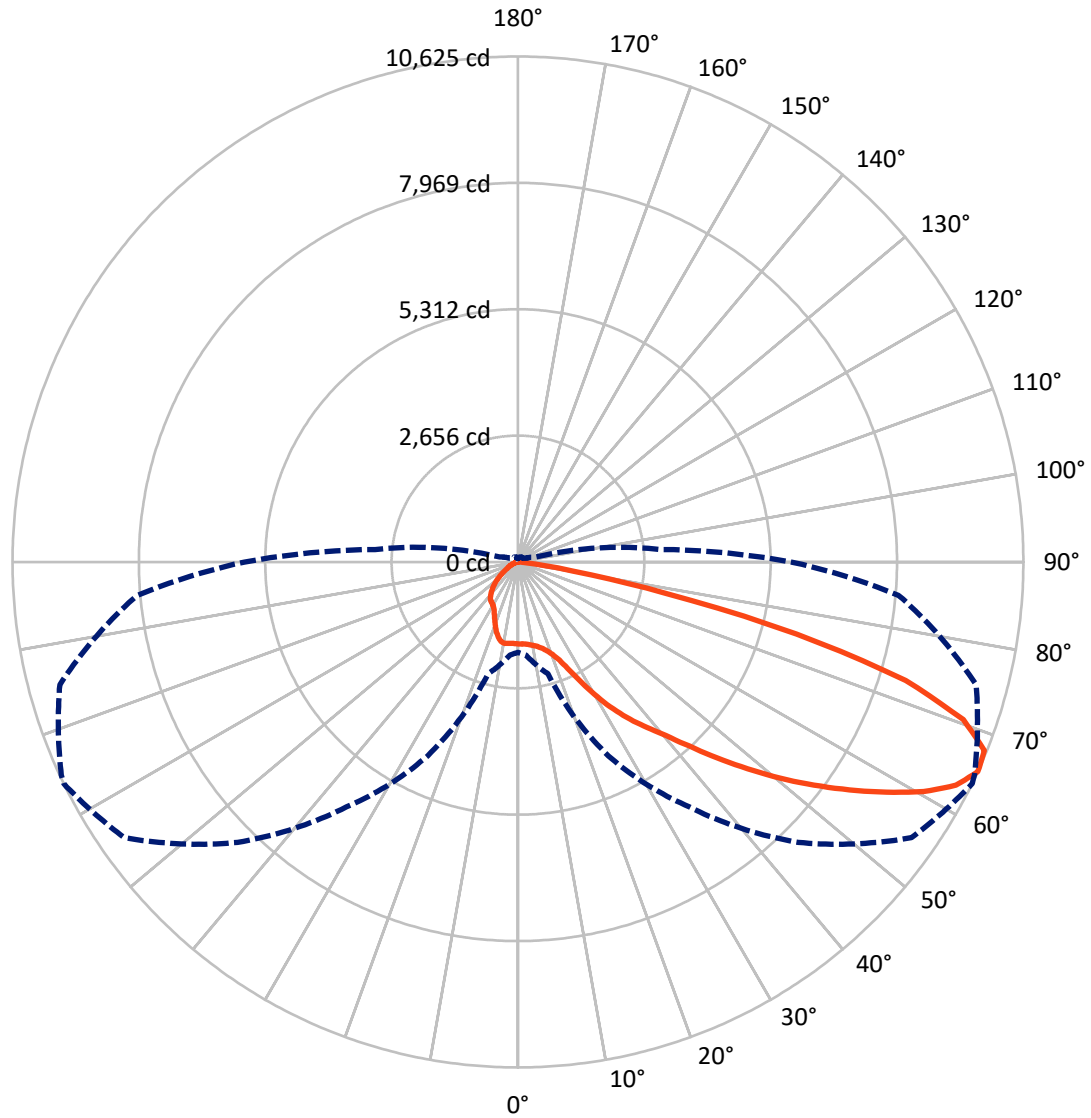
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1979.7 | 0.0 | 1979.7 |
| | % Fixture | 13.4 | 0.0 | 13.4 |
| Street Side | Lumens | 12824.3 | 0.0 | 12824.3 |
| | % Fixture | 86.6 | 0.0 | 86.6 |
| Total | Lumens | 14804.0 | 0.0 | 14804.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 158.9 | 1.1 |
| 10°-20° | 430.9 | 2.9 |
| 20°-30° | 816.5 | 5.5 |
| 30°-40° | 1652.1 | 11.2 |
| 40°-50° | 2814.4 | 19.0 |
| 50°-60° | 3827.4 | 25.9 |
| 60°-70° | 3594.1 | 24.3 |
| 70°-80° | 1440.0 | 9.7 |
| 80°-90° | 69.8 | 0.5 |
| 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° | 14804.0 | 100.0 |
| 0°-180° | 14804.0 | 100.0 |

Coefficient of Utilization



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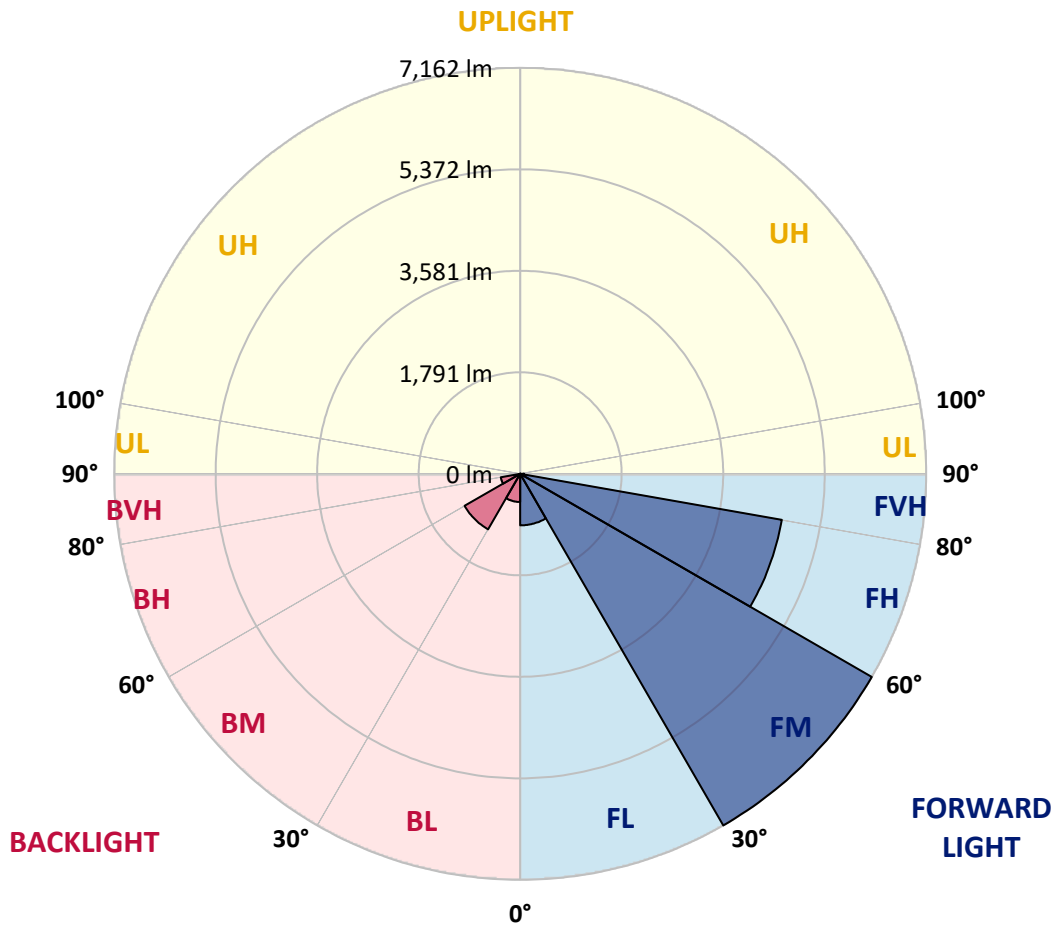
CATALOG NUMBER: GALN-SB2D-835-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 909.1 | 6.1 | | | |
| FM (30°-60°) | 7162.2 | 48.4 | | | |
| FH (60°-80°) | 4686.6 | 31.7 | | | G2/5000 |
| FVH (80°-90°) | 66.4 | 0.4 | | | G1/100 |
| BL (0°-30°) | 497.1 | 3.4 | B1/500 | | |
| BM (30°-60°) | 1131.8 | 7.6 | B2/2500 | | |
| BH (60°-80°) | 347.5 | 2.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.4 | 0.0 | | | G0/10 |
| 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° | 64° | 65° | 75° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|--------|
| 0° | 1721.9 | 1721.9 | 1721.9 | 1721.9 | 1721.9 | 1721.9 | 1721.9 | 1721.9 | 1721.9 | 1721.9 |
| 2.5° | 1715.9 | 1727.8 | 1724.8 | 1721.9 | 1720.9 | 1722.9 | 1723.8 | 1722.9 | 1722.9 | 1722.9 |
| 5° | 1683.2 | 1693.1 | 1693.1 | 1700.0 | 1709.9 | 1721.9 | 1730.8 | 1732.8 | 1734.8 | 1737.7 |
| 7.5° | 1620.6 | 1628.6 | 1634.5 | 1657.4 | 1682.2 | 1713.9 | 1740.7 | 1754.6 | 1756.6 | 1767.5 |
| 10° | 1578.0 | 1587.9 | 1597.8 | 1621.6 | 1657.4 | 1705.0 | 1750.6 | 1784.4 | 1789.3 | 1815.1 |
| 12.5° | 1576.0 | 1585.9 | 1598.8 | 1624.6 | 1666.3 | 1716.9 | 1772.5 | 1821.1 | 1830.0 | 1867.7 |
| 15° | 1596.8 | 1608.7 | 1620.6 | 1652.4 | 1697.0 | 1758.6 | 1818.1 | 1878.7 | 1887.6 | 1941.2 |
| 17.5° | 1639.5 | 1655.4 | 1664.3 | 1696.1 | 1743.7 | 1812.2 | 1890.6 | 1960.0 | 1968.0 | 2030.5 |
| 20° | 1723.8 | 1742.7 | 1745.7 | 1771.5 | 1818.1 | 1891.6 | 1984.9 | 2071.2 | 2081.1 | 2152.6 |
| 22.5° | 1898.5 | 1925.3 | 1901.5 | 1914.4 | 1956.1 | 2029.5 | 2130.7 | 2239.9 | 2253.8 | 2335.2 |
| 25° | 2206.2 | 2243.9 | 2182.3 | 2160.5 | 2178.4 | 2254.8 | 2381.8 | 2519.8 | 2535.6 | 2601.1 |
| 27.5° | 2810.6 | 2761.9 | 2668.6 | 2577.3 | 2523.7 | 2567.4 | 2710.3 | 2881.0 | 2900.9 | 2964.4 |
| 30° | 3474.5 | 3431.8 | 3305.8 | 3103.3 | 2976.3 | 2969.3 | 3101.3 | 3291.9 | 3314.7 | 3375.2 |
| 32.5° | 4139.4 | 4098.7 | 3961.8 | 3712.7 | 3492.3 | 3383.2 | 3474.5 | 3685.9 | 3697.8 | 3736.5 |
| 35° | 4793.4 | 4751.7 | 4614.8 | 4359.7 | 4088.8 | 3840.7 | 3822.8 | 4061.0 | 4065.0 | 4105.7 |
| 37.5° | 5451.4 | 5416.7 | 5270.8 | 5020.7 | 4753.7 | 4411.3 | 4245.6 | 4416.3 | 4421.3 | 4461.0 |
| 40° | 5920.8 | 5935.7 | 5835.5 | 5641.9 | 5412.7 | 5038.5 | 4720.0 | 4794.4 | 4764.6 | 4831.1 |
| 42.5° | 6323.7 | 6353.5 | 6266.2 | 6168.9 | 6035.9 | 5706.4 | 5307.5 | 5294.6 | 5247.0 | 5282.7 |
| 45° | 6672.1 | 6696.9 | 6618.5 | 6595.7 | 6592.7 | 6361.4 | 5949.6 | 5872.2 | 5805.7 | 5798.7 |
| 47.5° | 6800.1 | 6847.7 | 6881.5 | 6957.9 | 7106.8 | 7009.5 | 6613.5 | 6493.4 | 6419.0 | 6364.4 |
| 50° | 6848.7 | 6899.3 | 7014.5 | 7236.8 | 7589.1 | 7630.8 | 7274.5 | 7139.5 | 7048.2 | 6949.0 |
| 52.5° | 6783.2 | 6873.5 | 7028.4 | 7402.5 | 7913.6 | 8129.0 | 7908.6 | 7790.5 | 7686.3 | 7524.6 |
| 55° | 6397.2 | 6487.5 | 6804.1 | 7400.5 | 8075.4 | 8478.3 | 8508.1 | 8455.5 | 8338.4 | 8083.3 |
| 57.5° | 5583.4 | 5717.4 | 6218.5 | 7148.4 | 8072.4 | 8779.0 | 9095.6 | 9133.3 | 9002.3 | 8637.1 |
| 60° | 4456.0 | 4637.6 | 5248.9 | 6589.7 | 7823.3 | 8941.8 | 9610.7 | 9799.2 | 9660.3 | 9182.9 |
| 62.5° | 3109.3 | 3319.7 | 3898.2 | 5714.4 | 7253.6 | 8824.7 | 9986.8 | 10335.1 | 10229.9 | 9671.2 |
| 65° | 1896.5 | 1964.0 | 2430.5 | 4496.7 | 6285.0 | 8334.4 | 10102.9 | 10624.9 | 10590.2 | 9969.9 |
| 67.5° | 1263.4 | 1319.9 | 1453.9 | 3083.5 | 4878.8 | 7354.9 | 9825.0 | 10574.3 | 10584.2 | 9921.3 |
| 70° | 761.2 | 809.8 | 897.2 | 1793.3 | 3161.9 | 5821.6 | 8964.6 | 9929.2 | 9986.8 | 9271.2 |
| 72.5° | 313.6 | 346.4 | 425.8 | 812.8 | 1637.5 | 3694.8 | 7138.5 | 8524.9 | 8658.9 | 7795.5 |
| 75° | 177.6 | 194.5 | 250.1 | 407.9 | 710.6 | 1721.9 | 4324.0 | 6051.8 | 6249.3 | 5373.0 |
| 77.5° | 118.1 | 126.0 | 161.8 | 264.0 | 399.9 | 587.5 | 1847.9 | 3152.9 | 3530.1 | 2934.6 |
| 80° | 79.4 | 86.3 | 111.2 | 176.7 | 260.0 | 252.1 | 588.5 | 1168.1 | 1437.0 | 1008.3 |
| 82.5° | 53.6 | 54.6 | 79.4 | 116.1 | 164.7 | 122.1 | 173.7 | 363.2 | 456.5 | 291.8 |
| 85° | 30.8 | 29.8 | 58.6 | 67.5 | 73.4 | 50.6 | 52.6 | 109.2 | 142.9 | 123.1 |
| 87.5° | 4.0 | 6.0 | 22.8 | 17.9 | 9.9 | 10.9 | 10.9 | 18.9 | 27.8 | 29.8 |
| 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° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1721.9 | 0° | 1721.9 | 1721.9 | 1721.9 | 1721.9 | 1721.9 | 1721.9 | 1721.9 | 1721.9 | 1721.9 | 1721.9 |
| 1723.8 | 2.5° | 1723.8 | 1722.9 | 1719.9 | 1716.9 | 1709.9 | 1706.0 | 1708.0 | 1706.0 | 1705.0 | 1706.0 |
| 1736.7 | 5° | 1736.7 | 1733.8 | 1725.8 | 1715.9 | 1702.0 | 1685.1 | 1674.2 | 1658.3 | 1643.5 | 1634.5 |
| 1771.5 | 7.5° | 1771.5 | 1768.5 | 1757.6 | 1729.8 | 1685.1 | 1614.7 | 1550.2 | 1493.6 | 1450.9 | 1426.1 |
| 1827.1 | 10° | 1827.1 | 1822.1 | 1805.2 | 1743.7 | 1626.6 | 1472.8 | 1344.7 | 1238.5 | 1169.1 | 1136.3 |
| 1892.6 | 12.5° | 1892.6 | 1886.6 | 1856.8 | 1730.8 | 1515.4 | 1275.3 | 1098.6 | 980.5 | 916.0 | 887.2 |
| 1968.0 | 15° | 1970.0 | 1962.0 | 1903.5 | 1669.3 | 1353.7 | 1056.9 | 895.2 | 806.8 | 765.2 | 739.4 |
| 2064.2 | 17.5° | 2066.2 | 2052.3 | 1938.2 | 1577.0 | 1178.0 | 890.2 | 770.1 | 703.6 | 666.9 | 642.1 |
| 2190.3 | 20° | 2191.3 | 2168.5 | 1966.0 | 1466.8 | 1016.2 | 785.0 | 685.8 | 630.2 | 602.4 | 580.6 |
| 2368.9 | 22.5° | 2365.9 | 2333.2 | 1999.7 | 1347.7 | 902.1 | 712.6 | 623.2 | 582.6 | 559.7 | 534.9 |
| 2618.0 | 25° | 2582.3 | 2543.6 | 2041.4 | 1237.6 | 823.7 | 650.0 | 577.6 | 543.8 | 517.1 | 488.3 |
| 2944.5 | 27.5° | 2885.0 | 2815.5 | 2091.0 | 1147.2 | 756.2 | 596.4 | 535.9 | 498.2 | 467.4 | 443.6 |
| 3314.7 | 30° | 3222.4 | 3108.3 | 2134.7 | 1092.7 | 694.7 | 546.8 | 481.3 | 443.6 | 414.8 | 398.0 |
| 3647.2 | 32.5° | 3542.0 | 3387.1 | 2163.5 | 1068.8 | 639.1 | 490.3 | 421.8 | 381.1 | 359.3 | 354.3 |
| 3972.7 | 35° | 3843.7 | 3639.2 | 2160.5 | 1046.0 | 589.5 | 433.7 | 363.2 | 321.5 | 304.7 | 307.7 |
| 4323.0 | 37.5° | 4191.0 | 3908.2 | 2139.7 | 1010.3 | 548.8 | 382.1 | 312.6 | 275.9 | 261.0 | 262.0 |
| 4748.8 | 40° | 4594.9 | 4218.8 | 2126.8 | 942.8 | 504.2 | 334.4 | 270.9 | 241.2 | 230.2 | 226.3 |
| 5197.3 | 42.5° | 5025.6 | 4519.5 | 2128.8 | 866.4 | 448.6 | 291.8 | 242.2 | 217.3 | 207.4 | 204.4 |
| 5696.5 | 45° | 5458.3 | 4806.3 | 2131.7 | 787.0 | 390.0 | 259.0 | 221.3 | 200.5 | 194.5 | 190.5 |
| 6202.7 | 47.5° | 5865.2 | 5050.5 | 2076.2 | 701.6 | 332.5 | 234.2 | 204.4 | 190.5 | 185.6 | 180.6 |
| 6710.8 | 50° | 6244.3 | 5213.2 | 1942.2 | 602.4 | 286.8 | 214.4 | 191.5 | 181.6 | 176.7 | 171.7 |
| 7171.3 | 52.5° | 6539.1 | 5239.0 | 1720.9 | 500.2 | 255.1 | 199.5 | 183.6 | 174.7 | 168.7 | 163.8 |
| 7543.4 | 55° | 6670.1 | 5077.3 | 1406.3 | 404.9 | 230.2 | 186.6 | 175.7 | 166.7 | 159.8 | 154.8 |
| 7836.2 | 57.5° | 6636.4 | 4736.8 | 1096.6 | 325.5 | 206.4 | 173.7 | 165.7 | 159.8 | 151.8 | 143.9 |
| 8073.4 | 60° | 6470.6 | 4281.3 | 826.7 | 270.9 | 184.6 | 159.8 | 154.8 | 149.9 | 138.9 | 127.0 |
| 8164.7 | 62.5° | 6183.8 | 3708.7 | 589.5 | 224.3 | 160.8 | 143.9 | 141.9 | 137.9 | 122.1 | 100.2 |
| 8029.7 | 65° | 5745.2 | 3013.0 | 397.0 | 186.6 | 137.9 | 126.0 | 127.0 | 120.1 | 99.2 | 74.4 |
| 7535.5 | 67.5° | 5104.0 | 2203.2 | 254.1 | 152.8 | 115.1 | 105.2 | 106.2 | 102.2 | 84.4 | 63.5 |
| 6598.6 | 70° | 4287.3 | 1458.9 | 165.7 | 116.1 | 92.3 | 81.4 | 87.3 | 88.3 | 71.5 | 51.6 |
| 5064.3 | 72.5° | 3143.0 | 861.4 | 116.1 | 86.3 | 67.5 | 56.6 | 71.5 | 73.4 | 57.6 | 38.7 |
| 3046.7 | 75° | 1791.3 | 408.9 | 87.3 | 62.5 | 41.7 | 39.7 | 55.6 | 55.6 | 39.7 | 25.8 |
| 1318.9 | 77.5° | 752.3 | 170.7 | 61.5 | 40.7 | 23.8 | 22.8 | 37.7 | 34.7 | 19.8 | 11.9 |
| 321.5 | 80° | 217.3 | 76.4 | 32.8 | 19.8 | 9.9 | 8.9 | 14.9 | 10.9 | 5.0 | 2.0 |
| 122.1 | 82.5° | 85.3 | 33.7 | 12.9 | 7.9 | 4.0 | 4.0 | 2.0 | 0.0 | 0.0 | 0.0 |
| 69.5 | 85° | 50.6 | 13.9 | 6.0 | 3.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14.9 | 87.5° | 12.9 | 3.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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° |
| 1721.9 |
| 1709.9 |
| 1636.5 |
| 1427.1 |
| 1133.4 |
| 884.3 |
| 740.3 |
| 640.1 |
| 576.6 |
| 530.9 |
| 485.3 |
| 438.7 |
| 395.0 |
| 357.3 |
| 307.7 |
| 266.0 |
| 225.3 |
| 203.4 |
| 190.5 |
| 180.6 |
| 171.7 |
| 162.8 |
| 153.8 |
| 142.9 |
| 125.0 |
| 98.3 |
| 72.4 |
| 60.5 |
| 49.6 |
| 36.7 |
| 23.8 |
| 11.9 |
| 2.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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