

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: P939834

Luminaire Tested: **GALN-SB2C-840-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939834
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2C-840-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10461 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

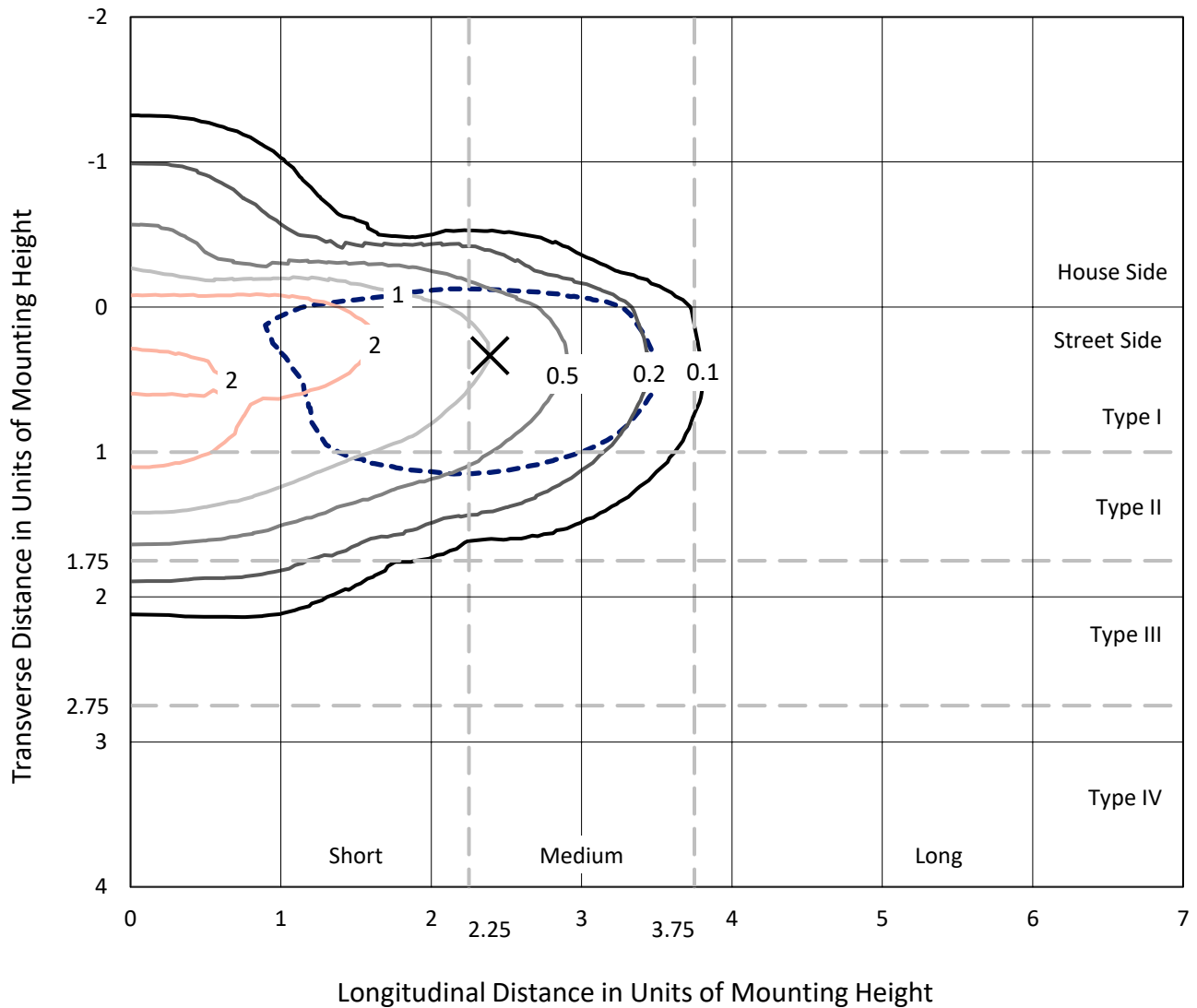
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

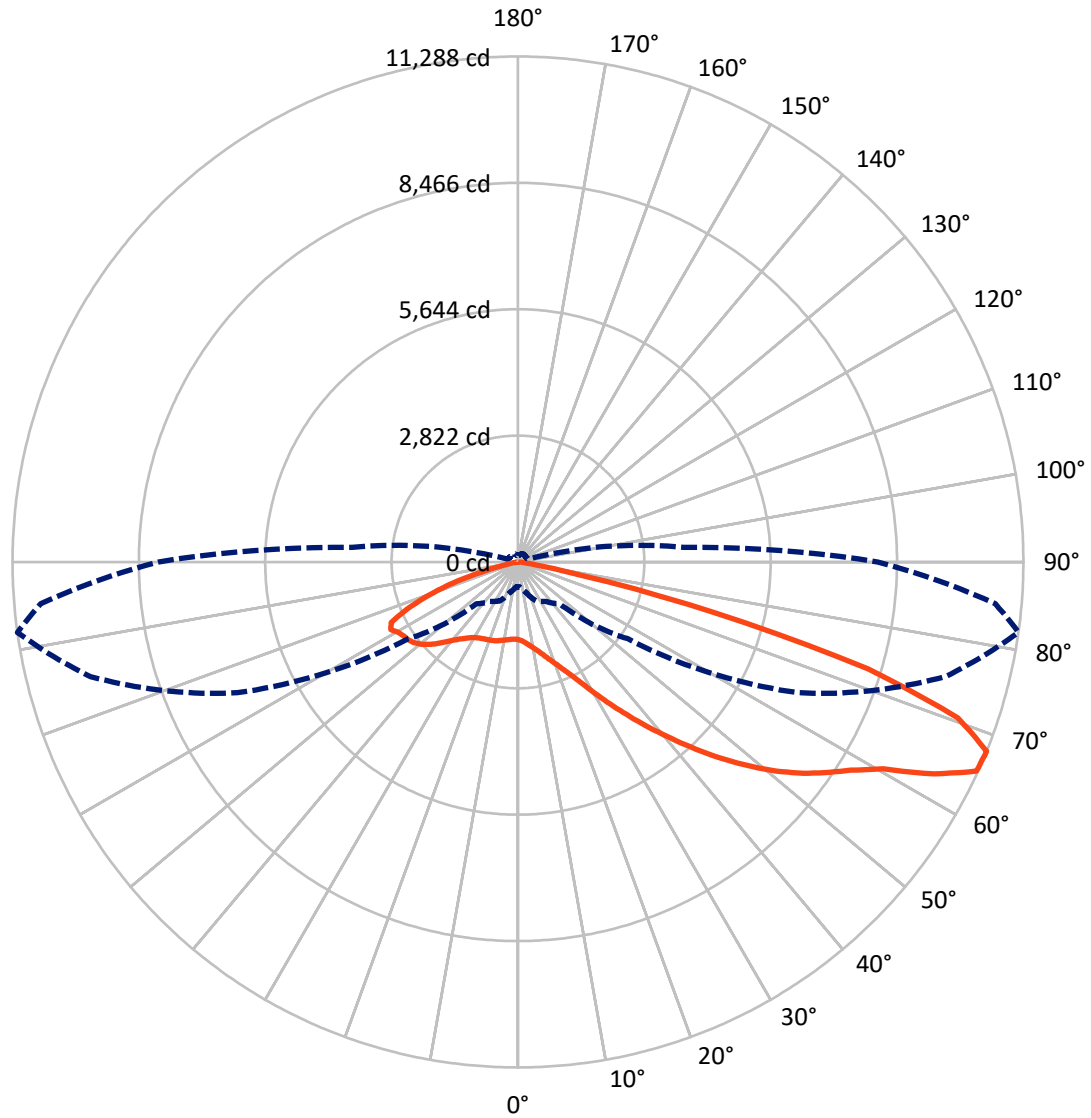
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1894.9 | 0.0 | 1894.9 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 8566.1 | 0.0 | 8566.1 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 10461.0 | 0.0 | 10461.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 154.4 | 1.5 |
| 10°-20° | 401.2 | 3.8 |
| 20°-30° | 642.6 | 6.1 |
| 30°-40° | 1136.4 | 10.9 |
| 40°-50° | 1991.0 | 19.0 |
| 50°-60° | 2655.5 | 25.4 |
| 60°-70° | 2472.1 | 23.6 |
| 70°-80° | 948.8 | 9.1 |
| 80°-90° | 58.9 | 0.6 |
| 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° | 10461.0 | 100.0 |
| 0°-180° | 10461.0 | 100.0 |

Coefficient of Utilization



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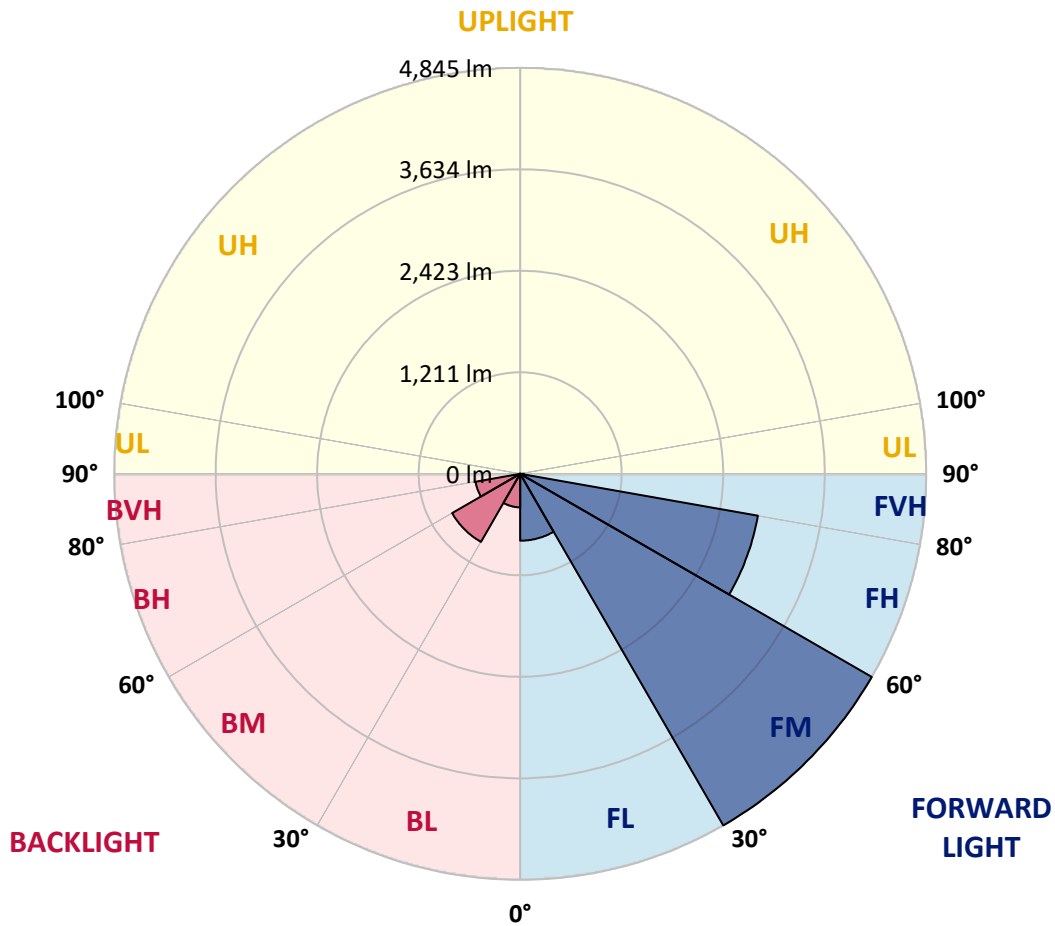
CATALOG NUMBER: GALN-SB2C-840-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 798.1 | 7.6 | | | |
| FM (30°-60°) | 4845.1 | 46.3 | | | |
| FH (60°-80°) | 2880.1 | 27.5 | | | G2/5000 |
| FVH (80°-90°) | 42.8 | 0.4 | | | G1/100 |
| BL (0°-30°) | 400.2 | 3.8 | B1/500 | | |
| BM (30°-60°) | 937.8 | 9.0 | B1/1000 | | |
| BH (60°-80°) | 540.8 | 5.2 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 16.1 | 0.2 | | | 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



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 82° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| 0° | 1733.0 | 1733.0 | 1733.0 | 1733.0 | 1733.0 | 1733.0 | 1733.0 | 1733.0 | 1733.0 | 1733.0 |
| 2.5° | 1831.7 | 1842.2 | 1836.2 | 1833.2 | 1827.9 | 1820.4 | 1814.4 | 1795.5 | 1776.0 | 1763.2 |
| 5° | 1868.6 | 1879.1 | 1878.4 | 1881.4 | 1885.2 | 1887.4 | 1885.9 | 1864.8 | 1837.0 | 1815.1 |
| 7.5° | 1837.0 | 1849.0 | 1858.8 | 1873.9 | 1900.2 | 1928.1 | 1941.7 | 1937.1 | 1908.5 | 1878.4 |
| 10° | 1747.3 | 1760.1 | 1783.5 | 1818.9 | 1874.6 | 1934.9 | 1985.3 | 2008.7 | 1990.6 | 1957.5 |
| 12.5° | 1583.2 | 1596.0 | 1641.9 | 1718.7 | 1812.1 | 1916.8 | 2013.2 | 2075.7 | 2080.2 | 2047.1 |
| 15° | 1398.6 | 1411.4 | 1460.4 | 1556.8 | 1699.1 | 1867.1 | 2028.3 | 2146.5 | 2186.4 | 2157.8 |
| 17.5° | 1284.1 | 1295.4 | 1332.3 | 1409.9 | 1558.3 | 1767.7 | 2023.0 | 2221.8 | 2313.0 | 2290.4 |
| 20° | 1249.5 | 1259.3 | 1276.6 | 1330.8 | 1454.4 | 1664.5 | 1988.4 | 2292.6 | 2449.3 | 2436.5 |
| 22.5° | 1286.4 | 1295.4 | 1300.7 | 1324.8 | 1402.4 | 1596.7 | 1944.7 | 2364.9 | 2607.5 | 2609.0 |
| 25° | 1371.5 | 1380.6 | 1374.5 | 1389.6 | 1423.5 | 1575.6 | 1928.1 | 2450.0 | 2806.3 | 2822.9 |
| 27.5° | 1511.6 | 1512.4 | 1498.0 | 1497.3 | 1502.6 | 1607.3 | 1945.4 | 2541.2 | 3057.1 | 3088.0 |
| 30° | 1792.5 | 1781.2 | 1726.3 | 1666.8 | 1639.6 | 1702.2 | 1993.6 | 2648.9 | 3353.1 | 3408.1 |
| 32.5° | 2225.6 | 2209.0 | 2108.1 | 1965.8 | 1822.7 | 1855.0 | 2080.2 | 2771.6 | 3675.4 | 3774.9 |
| 35° | 2695.6 | 2691.1 | 2585.6 | 2374.0 | 2123.9 | 2072.7 | 2221.1 | 2932.8 | 4027.2 | 4185.3 |
| 37.5° | 3132.4 | 3130.2 | 3069.9 | 2820.6 | 2516.3 | 2376.2 | 2447.0 | 3143.7 | 4403.8 | 4632.7 |
| 40° | 3531.6 | 3538.4 | 3478.1 | 3255.2 | 2948.6 | 2765.6 | 2754.3 | 3404.3 | 4822.5 | 5120.0 |
| 42.5° | 3876.5 | 3884.1 | 3823.1 | 3658.1 | 3375.7 | 3196.4 | 3131.7 | 3723.6 | 5231.5 | 5643.5 |
| 45° | 4110.8 | 4157.5 | 4148.4 | 4016.6 | 3814.0 | 3628.0 | 3585.1 | 4124.3 | 5697.7 | 6198.6 |
| 47.5° | 4177.1 | 4220.0 | 4287.8 | 4305.8 | 4182.3 | 3999.3 | 4050.5 | 4607.1 | 6169.2 | 6754.4 |
| 50° | 4013.6 | 4053.5 | 4194.4 | 4381.9 | 4467.8 | 4411.3 | 4503.2 | 5124.5 | 6652.0 | 7308.7 |
| 52.5° | 3691.3 | 3731.9 | 3909.7 | 4206.4 | 4556.7 | 4734.4 | 4957.3 | 5634.4 | 7119.7 | 7833.7 |
| 55° | 3225.1 | 3268.0 | 3496.2 | 3832.1 | 4387.2 | 4867.7 | 5336.2 | 6143.6 | 7548.2 | 8305.9 |
| 57.5° | 2590.9 | 2622.5 | 2859.8 | 3329.7 | 3960.9 | 4735.2 | 5615.6 | 6699.4 | 7951.9 | 8769.9 |
| 60° | 1688.6 | 1716.5 | 1992.1 | 2516.3 | 3254.4 | 4292.3 | 5671.3 | 7319.3 | 8488.2 | 9373.1 |
| 62.5° | 1123.0 | 1141.8 | 1305.2 | 1690.1 | 2291.9 | 3442.0 | 5345.2 | 7814.1 | 9274.5 | 10423.1 |
| 65° | 770.5 | 789.3 | 952.8 | 1220.9 | 1480.7 | 2276.8 | 4407.5 | 7748.6 | 9987.0 | 11256.8 |
| 67.5° | 549.8 | 565.6 | 704.2 | 957.3 | 1071.8 | 1322.6 | 2987.8 | 6911.0 | 9884.5 | 11288.4 |
| 70° | 393.9 | 402.9 | 517.4 | 745.6 | 851.8 | 794.6 | 1661.5 | 5285.7 | 8654.6 | 10423.8 |
| 72.5° | 275.7 | 278.7 | 359.3 | 567.9 | 686.1 | 579.9 | 790.8 | 3524.1 | 6545.8 | 8181.6 |
| 75° | 186.8 | 190.6 | 241.8 | 416.5 | 550.6 | 442.9 | 418.8 | 1889.7 | 3842.7 | 4528.8 |
| 77.5° | 114.5 | 116.0 | 155.9 | 284.7 | 412.0 | 337.4 | 269.6 | 800.6 | 1486.7 | 1459.6 |
| 80° | 64.8 | 64.8 | 99.4 | 177.0 | 280.9 | 217.7 | 189.0 | 340.4 | 470.7 | 413.5 |
| 82.5° | 36.2 | 36.9 | 72.3 | 110.0 | 186.0 | 128.8 | 103.9 | 157.4 | 203.4 | 180.0 |
| 85° | 15.1 | 16.6 | 44.4 | 52.0 | 88.9 | 64.0 | 42.2 | 66.3 | 75.3 | 67.0 |
| 87.5° | 1.5 | 2.3 | 13.6 | 9.8 | 10.5 | 12.8 | 6.0 | 12.8 | 10.5 | 10.5 |
| 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° |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1733.0 | 0° | 1733.0 | 1733.0 | 1733.0 | 1733.0 | 1733.0 | 1733.0 | 1733.0 | 1733.0 | 1733.0 | 1733.0 |
| 1758.6 | 2.5° | 1744.3 | 1733.0 | 1704.4 | 1671.3 | 1627.6 | 1606.5 | 1577.9 | 1558.3 | 1541.7 | 1543.2 |
| 1802.3 | 5° | 1778.2 | 1749.6 | 1685.6 | 1605.7 | 1506.3 | 1435.5 | 1360.2 | 1308.2 | 1266.1 | 1257.0 |
| 1862.6 | 7.5° | 1824.9 | 1779.7 | 1667.5 | 1523.7 | 1355.7 | 1228.4 | 1114.7 | 1041.6 | 989.7 | 973.1 |
| 1935.6 | 10° | 1885.2 | 1819.6 | 1644.2 | 1420.5 | 1178.7 | 1016.8 | 894.8 | 837.5 | 802.1 | 790.1 |
| 2021.5 | 12.5° | 1955.2 | 1865.6 | 1613.3 | 1294.7 | 996.4 | 840.5 | 763.0 | 734.3 | 723.0 | 719.3 |
| 2126.9 | 15° | 2043.3 | 1922.8 | 1566.6 | 1145.6 | 842.0 | 732.8 | 699.7 | 695.9 | 697.4 | 695.9 |
| 2253.5 | 17.5° | 2148.0 | 1985.3 | 1490.5 | 991.9 | 738.1 | 677.8 | 665.8 | 668.8 | 672.6 | 671.8 |
| 2395.1 | 20° | 2262.5 | 2047.1 | 1393.4 | 855.6 | 667.3 | 638.7 | 631.9 | 634.9 | 637.9 | 636.4 |
| 2558.5 | 22.5° | 2392.8 | 2113.4 | 1285.7 | 749.4 | 619.9 | 602.5 | 595.0 | 595.8 | 595.8 | 592.7 |
| 2765.6 | 25° | 2548.7 | 2186.4 | 1172.7 | 674.1 | 583.7 | 570.1 | 561.1 | 558.1 | 553.6 | 544.5 |
| 3017.2 | 27.5° | 2734.7 | 2264.0 | 1064.2 | 621.4 | 555.1 | 542.3 | 531.7 | 524.2 | 512.9 | 497.8 |
| 3319.2 | 30° | 2944.1 | 2358.2 | 972.3 | 588.2 | 532.5 | 519.7 | 507.6 | 496.3 | 479.8 | 460.9 |
| 3666.4 | 32.5° | 3190.4 | 2459.1 | 905.3 | 566.4 | 512.2 | 498.6 | 484.3 | 470.7 | 452.7 | 433.8 |
| 4056.5 | 35° | 3484.1 | 2581.1 | 866.1 | 551.3 | 496.3 | 478.3 | 462.4 | 447.4 | 433.8 | 417.3 |
| 4480.6 | 37.5° | 3802.7 | 2710.6 | 854.1 | 543.8 | 485.8 | 457.9 | 439.8 | 429.3 | 427.8 | 418.0 |
| 4939.3 | 40° | 4151.4 | 2864.3 | 863.1 | 539.3 | 474.5 | 438.3 | 418.8 | 416.5 | 420.3 | 402.9 |
| 5429.6 | 42.5° | 4520.5 | 3046.6 | 878.2 | 534.0 | 458.7 | 418.8 | 399.9 | 399.9 | 396.9 | 372.8 |
| 5947.7 | 45° | 4919.7 | 3256.7 | 893.3 | 521.2 | 439.8 | 399.2 | 384.9 | 379.6 | 366.8 | 343.4 |
| 6468.9 | 47.5° | 5321.9 | 3470.6 | 904.6 | 497.8 | 417.3 | 382.6 | 369.8 | 357.8 | 338.9 | 317.8 |
| 6980.3 | 50° | 5703.7 | 3662.6 | 892.5 | 463.2 | 391.6 | 366.8 | 353.2 | 336.7 | 316.3 | 302.0 |
| 7464.6 | 52.5° | 6044.9 | 3829.1 | 841.3 | 422.5 | 364.5 | 350.2 | 338.2 | 320.8 | 304.3 | 289.2 |
| 7901.5 | 55° | 6341.7 | 3963.9 | 750.9 | 384.1 | 340.4 | 335.9 | 323.9 | 302.0 | 279.4 | 266.6 |
| 8334.5 | 57.5° | 6626.3 | 4066.3 | 637.9 | 352.5 | 318.6 | 320.1 | 302.0 | 282.4 | 261.3 | 247.8 |
| 8918.2 | 60° | 7005.2 | 4203.4 | 523.4 | 323.1 | 295.2 | 299.8 | 280.2 | 265.9 | 239.5 | 222.2 |
| 9919.2 | 62.5° | 7610.7 | 4416.6 | 415.7 | 287.0 | 268.1 | 269.6 | 261.3 | 244.0 | 212.4 | 192.1 |
| 10661.1 | 65° | 8091.3 | 4338.2 | 327.6 | 247.8 | 237.2 | 239.5 | 239.5 | 220.7 | 186.8 | 163.4 |
| 10701.0 | 67.5° | 8037.0 | 3714.6 | 261.3 | 209.4 | 207.9 | 209.4 | 214.7 | 198.8 | 165.7 | 146.9 |
| 9886.0 | 70° | 7403.6 | 2954.7 | 209.4 | 174.0 | 180.8 | 177.0 | 192.1 | 181.5 | 149.1 | 130.3 |
| 7664.2 | 72.5° | 6041.1 | 2128.4 | 159.7 | 143.9 | 138.6 | 144.6 | 173.2 | 163.4 | 124.3 | 103.2 |
| 4059.6 | 75° | 3530.1 | 1135.8 | 119.0 | 113.7 | 100.2 | 120.5 | 153.6 | 139.3 | 94.9 | 76.1 |
| 1244.2 | 77.5° | 1149.3 | 396.2 | 87.4 | 83.6 | 74.6 | 97.2 | 131.1 | 117.5 | 77.6 | 60.3 |
| 364.5 | 80° | 308.0 | 119.8 | 59.5 | 55.0 | 48.2 | 72.3 | 103.9 | 93.4 | 55.7 | 39.2 |
| 156.7 | 82.5° | 123.5 | 50.5 | 34.6 | 30.9 | 26.4 | 49.7 | 82.1 | 75.3 | 41.4 | 24.9 |
| 49.0 | 85° | 39.9 | 16.6 | 12.8 | 9.8 | 12.1 | 30.9 | 49.0 | 51.2 | 29.4 | 12.8 |
| 7.5 | 87.5° | 5.3 | 2.3 | 2.3 | 3.0 | 2.3 | 5.3 | 15.1 | 14.3 | 8.3 | 1.5 |
| 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° |
| 1733.0 |
| 1528.2 |
| 1236.7 |
| 956.5 |
| 781.0 |
| 717.0 |
| 695.2 |
| 670.3 |
| 635.7 |
| 591.2 |
| 543.0 |
| 496.3 |
| 459.4 |
| 434.6 |
| 415.7 |
| 417.3 |
| 403.7 |
| 372.8 |
| 342.7 |
| 317.1 |
| 299.8 |
| 287.7 |
| 265.1 |
| 246.3 |
| 219.9 |
| 190.6 |
| 161.2 |
| 143.9 |
| 128.0 |
| 100.9 |
| 73.8 |
| 58.0 |
| 38.4 |
| 24.9 |
| 9.8 |
| 0.0 |
| 0.0 |

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