

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: P940905

Luminaire Tested: **GALN-SB4A-940-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940905
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB4A-940-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12908 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

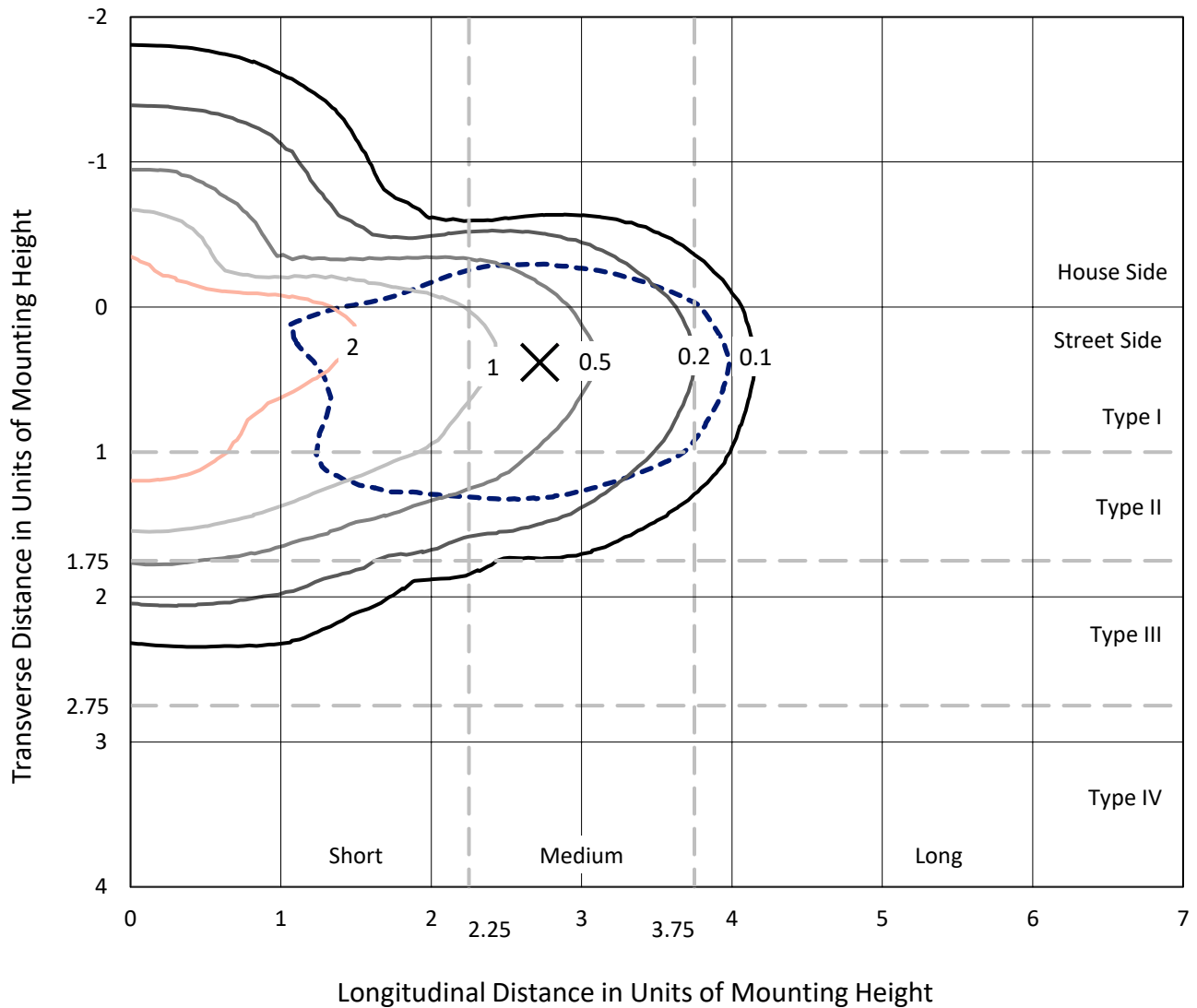
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

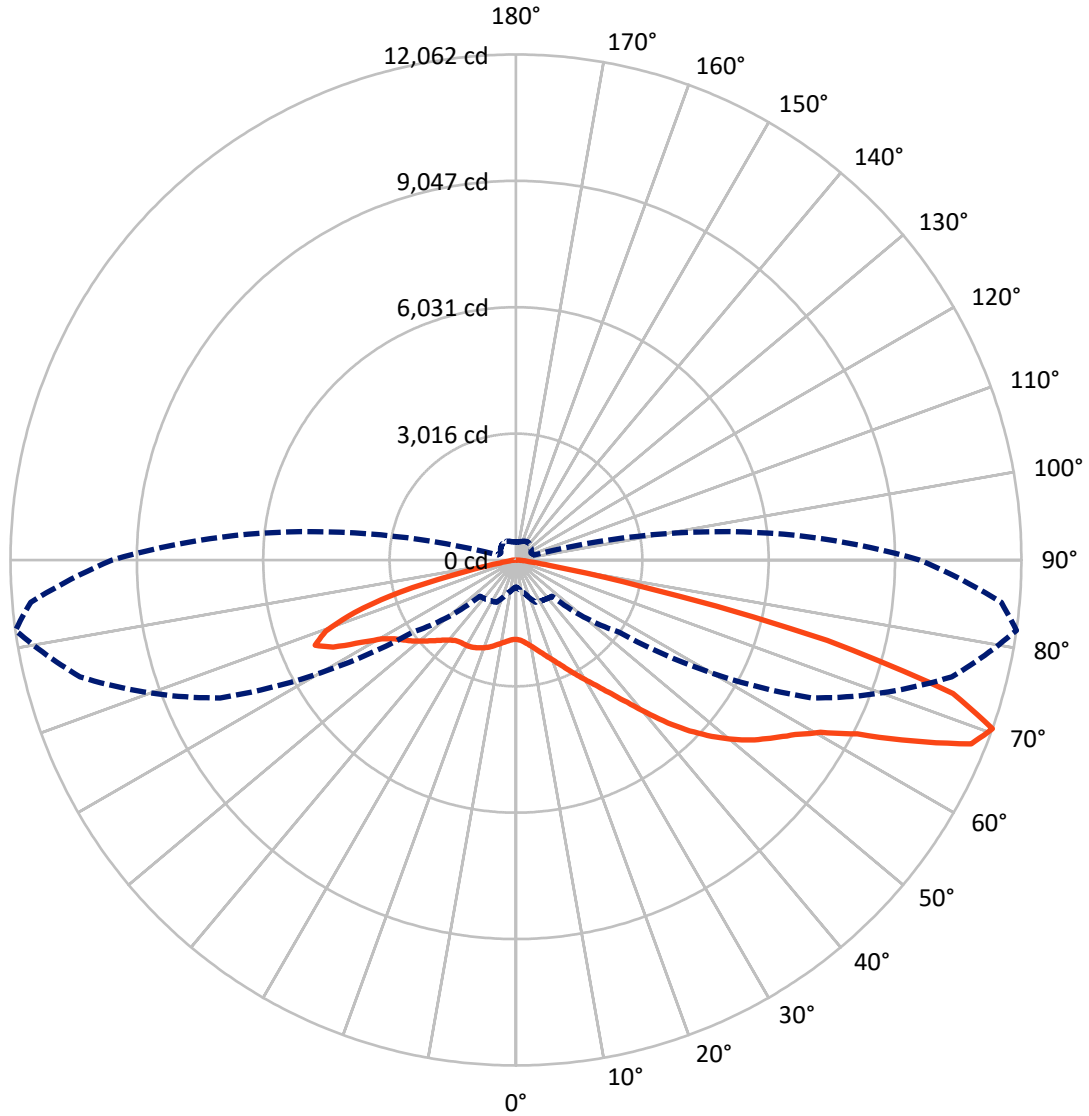
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3182.2 | 0.0 | 3182.2 |
| | % Fixture | 24.7 | 0.0 | 24.7 |
| Street Side | Lumens | 9725.9 | 0.0 | 9725.9 |
| | % Fixture | 75.3 | 0.0 | 75.3 |
| Total | Lumens | 12908.0 | 0.0 | 12908.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 178.7 | 1.4 |
| 10°-20° | 513.4 | 4.0 |
| 20°-30° | 858.8 | 6.7 |
| 30°-40° | 1341.7 | 10.4 |
| 40°-50° | 2136.8 | 16.6 |
| 50°-60° | 2973.6 | 23.0 |
| 60°-70° | 3110.5 | 24.1 |
| 70°-80° | 1625.7 | 12.6 |
| 80°-90° | 168.8 | 1.3 |
| 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° | 12908.0 | 100.0 |
| 0°-180° | 12908.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P940905

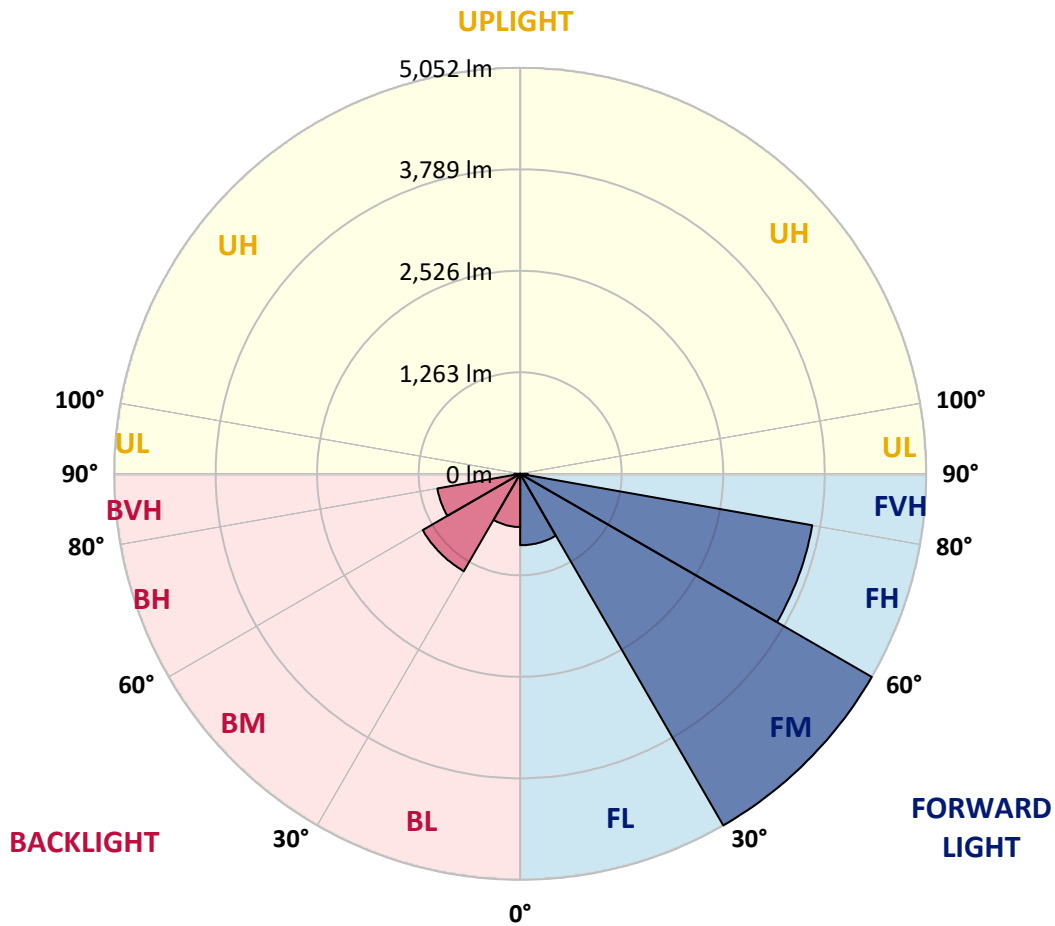
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 888.9 | 6.9 | | | |
| FM (30°-60°) | 5052.1 | 39.1 | | | |
| FH (60°-80°) | 3690.4 | 28.6 | | | G2/5000 |
| FVH (80°-90°) | 94.5 | 0.7 | | | G1/100 |
| BL (0°-30°) | 662.0 | 5.1 | B2/1000 | | |
| BM (30°-60°) | 1400.0 | 10.8 | B2/2500 | | |
| BH (60°-80°) | 1045.8 | 8.1 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 74.3 | 0.6 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type II Medium



REPORT NUMBER: P940905
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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 82° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| 0° | 1892.5 | 1892.5 | 1892.5 | 1892.5 | 1892.5 | 1892.5 | 1892.5 | 1892.5 | 1892.5 | 1892.5 |
| 2.5° | 1937.7 | 1948.6 | 1945.2 | 1941.8 | 1941.8 | 1937.0 | 1936.3 | 1929.5 | 1924.0 | 1915.1 |
| 5° | 1962.3 | 1974.0 | 1972.6 | 1975.4 | 1984.3 | 1986.3 | 1988.4 | 1984.3 | 1973.3 | 1962.3 |
| 7.5° | 1940.4 | 1953.4 | 1957.5 | 1974.0 | 2001.4 | 2026.0 | 2044.5 | 2052.1 | 2041.8 | 2026.0 |
| 10° | 1866.4 | 1880.8 | 1895.2 | 1934.3 | 1982.9 | 2041.1 | 2090.4 | 2119.9 | 2117.8 | 2102.7 |
| 12.5° | 1716.4 | 1731.5 | 1762.3 | 1838.4 | 1927.4 | 2030.1 | 2121.9 | 2183.6 | 2204.8 | 2193.8 |
| 15° | 1596.6 | 1609.6 | 1632.9 | 1711.0 | 1826.7 | 1982.9 | 2133.6 | 2253.4 | 2307.5 | 2301.4 |
| 17.5° | 1593.2 | 1598.6 | 1613.0 | 1650.0 | 1739.0 | 1908.9 | 2121.2 | 2321.9 | 2425.4 | 2424.7 |
| 20° | 1653.4 | 1655.5 | 1663.7 | 1671.2 | 1721.9 | 1852.7 | 2089.7 | 2378.8 | 2557.5 | 2557.5 |
| 22.5° | 1737.0 | 1735.6 | 1743.8 | 1737.0 | 1761.7 | 1848.0 | 2069.9 | 2428.8 | 2704.8 | 2715.8 |
| 25° | 1862.3 | 1855.5 | 1853.4 | 1837.7 | 1842.5 | 1892.5 | 2091.8 | 2485.6 | 2879.5 | 2902.1 |
| 27.5° | 2029.5 | 2018.5 | 2011.0 | 1974.7 | 1962.3 | 1984.3 | 2158.9 | 2554.1 | 3074.0 | 3113.0 |
| 30° | 2247.3 | 2227.4 | 2216.4 | 2153.4 | 2108.9 | 2112.3 | 2260.3 | 2645.2 | 3277.4 | 3340.4 |
| 32.5° | 2544.5 | 2513.7 | 2484.3 | 2380.8 | 2299.3 | 2272.6 | 2391.1 | 2771.2 | 3498.0 | 3598.6 |
| 35° | 2877.4 | 2852.8 | 2821.2 | 2661.7 | 2536.3 | 2474.7 | 2567.8 | 2947.3 | 3756.2 | 3915.8 |
| 37.5° | 3198.0 | 3176.7 | 3191.8 | 2976.7 | 2815.1 | 2725.4 | 2799.3 | 3183.6 | 4074.7 | 4310.3 |
| 40° | 3529.5 | 3513.0 | 3515.1 | 3309.6 | 3121.2 | 3020.6 | 3080.2 | 3480.2 | 4439.7 | 4779.5 |
| 42.5° | 3889.7 | 3877.4 | 3836.3 | 3654.1 | 3442.5 | 3348.6 | 3403.4 | 3822.6 | 4831.5 | 5313.7 |
| 45° | 4293.2 | 4285.6 | 4247.3 | 4038.4 | 3795.9 | 3690.4 | 3764.4 | 4200.7 | 5225.4 | 5816.5 |
| 47.5° | 4641.8 | 4648.0 | 4643.2 | 4467.1 | 4215.8 | 4061.0 | 4149.3 | 4595.2 | 5591.8 | 6289.1 |
| 50° | 4809.6 | 4841.8 | 4889.1 | 4834.3 | 4678.1 | 4520.6 | 4537.7 | 4976.0 | 5941.1 | 6732.2 |
| 52.5° | 4721.9 | 4782.9 | 4911.7 | 4999.3 | 5059.6 | 5026.7 | 4980.8 | 5354.1 | 6269.9 | 7132.2 |
| 55° | 4395.2 | 4480.8 | 4694.5 | 4906.2 | 5213.7 | 5452.8 | 5513.0 | 5773.3 | 6590.4 | 7484.3 |
| 57.5° | 3800.0 | 3939.1 | 4130.8 | 4558.9 | 5076.7 | 5658.9 | 6133.6 | 6354.8 | 6930.2 | 7860.3 |
| 60° | 2779.5 | 2965.8 | 3204.1 | 3841.1 | 4597.3 | 5548.7 | 6661.7 | 7248.0 | 7413.0 | 8347.3 |
| 62.5° | 1778.8 | 1893.8 | 2113.0 | 2713.0 | 3582.2 | 4983.6 | 6823.3 | 8364.4 | 8231.5 | 9145.9 |
| 65° | 1217.8 | 1291.8 | 1492.5 | 1829.5 | 2315.8 | 3709.6 | 6390.4 | 9201.4 | 9531.5 | 10411.7 |
| 67.5° | 884.9 | 941.1 | 1112.3 | 1407.5 | 1508.9 | 2195.2 | 4958.9 | 9163.1 | 10795.3 | 11715.8 |
| 70° | 645.2 | 684.9 | 828.8 | 1112.3 | 1161.0 | 1221.2 | 3004.1 | 7789.1 | 10767.9 | 12062.4 |
| 72.5° | 478.1 | 505.5 | 602.1 | 863.0 | 939.7 | 824.7 | 1487.0 | 5661.0 | 9252.8 | 10910.3 |
| 75° | 345.9 | 366.4 | 437.7 | 660.3 | 752.1 | 628.1 | 741.8 | 3308.2 | 6454.1 | 7674.7 |
| 77.5° | 264.4 | 280.1 | 326.7 | 483.6 | 602.1 | 471.2 | 460.3 | 1521.9 | 3060.3 | 3075.4 |
| 80° | 212.3 | 222.6 | 247.9 | 340.4 | 461.6 | 352.7 | 300.0 | 614.4 | 967.1 | 818.5 |
| 82.5° | 156.2 | 173.3 | 209.6 | 239.0 | 330.1 | 243.2 | 182.9 | 310.3 | 367.8 | 316.4 |
| 85° | 89.0 | 100.7 | 126.7 | 171.2 | 211.0 | 148.6 | 104.8 | 137.7 | 171.2 | 140.4 |
| 87.5° | 31.5 | 41.1 | 44.5 | 67.1 | 91.8 | 61.6 | 40.4 | 39.7 | 56.2 | 41.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P940905
 CATALOG NUMBER: GALN-SB4A-940-U-T2

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1892.5 | 0° | 1892.5 | 1892.5 | 1892.5 | 1892.5 | 1892.5 | 1892.5 | 1892.5 | 1892.5 | 1892.5 | 1892.5 |
| 1913.0 | 2.5° | 1906.2 | 1902.7 | 1889.0 | 1870.6 | 1851.4 | 1832.9 | 1826.7 | 1813.7 | 1804.8 | 1800.0 |
| 1957.5 | 5° | 1944.5 | 1933.6 | 1901.4 | 1860.3 | 1817.1 | 1770.6 | 1737.7 | 1707.5 | 1685.6 | 1665.1 |
| 2018.5 | 7.5° | 1999.3 | 1980.1 | 1924.7 | 1852.7 | 1776.0 | 1698.6 | 1641.1 | 1597.3 | 1567.8 | 1548.6 |
| 2089.7 | 10° | 2063.0 | 2033.6 | 1948.6 | 1841.1 | 1722.6 | 1611.7 | 1543.8 | 1506.2 | 1487.7 | 1477.4 |
| 2171.2 | 12.5° | 2136.3 | 2094.5 | 1973.3 | 1814.4 | 1641.1 | 1514.4 | 1467.8 | 1456.9 | 1457.5 | 1458.2 |
| 2274.0 | 15° | 2226.7 | 2168.5 | 1993.2 | 1756.2 | 1534.9 | 1439.7 | 1431.5 | 1449.3 | 1467.8 | 1476.7 |
| 2390.4 | 17.5° | 2328.8 | 2246.6 | 1996.6 | 1660.3 | 1430.8 | 1391.8 | 1417.8 | 1456.2 | 1484.3 | 1496.6 |
| 2520.6 | 20° | 2438.4 | 2326.0 | 1971.9 | 1524.7 | 1345.2 | 1352.7 | 1399.3 | 1448.6 | 1479.5 | 1495.2 |
| 2669.2 | 22.5° | 2563.7 | 2411.0 | 1913.0 | 1382.2 | 1275.3 | 1310.3 | 1365.1 | 1413.0 | 1445.2 | 1461.0 |
| 2843.8 | 25° | 2706.9 | 2506.2 | 1820.6 | 1262.3 | 1215.1 | 1262.3 | 1317.1 | 1356.9 | 1382.9 | 1397.3 |
| 3039.1 | 27.5° | 2865.8 | 2605.5 | 1697.3 | 1167.1 | 1162.3 | 1213.0 | 1258.2 | 1289.0 | 1302.7 | 1313.7 |
| 3246.6 | 30° | 3025.4 | 2695.9 | 1548.0 | 1095.2 | 1116.4 | 1164.4 | 1196.6 | 1210.3 | 1214.4 | 1216.4 |
| 3478.1 | 32.5° | 3198.0 | 2774.0 | 1391.1 | 1035.6 | 1072.6 | 1117.1 | 1136.3 | 1142.5 | 1123.3 | 1110.3 |
| 3758.9 | 35° | 3406.9 | 2857.5 | 1237.7 | 988.4 | 1029.5 | 1067.8 | 1074.0 | 1068.5 | 1045.9 | 1019.2 |
| 4111.0 | 37.5° | 3665.1 | 2961.7 | 1115.1 | 954.8 | 989.0 | 1014.4 | 1006.9 | 1005.5 | 1007.5 | 976.0 |
| 4534.3 | 40° | 3981.5 | 3097.3 | 1025.3 | 928.8 | 956.2 | 961.6 | 940.4 | 952.1 | 962.3 | 914.4 |
| 4998.7 | 42.5° | 4332.9 | 3261.0 | 968.5 | 911.0 | 928.8 | 915.8 | 882.9 | 895.9 | 894.5 | 831.5 |
| 5465.1 | 45° | 4691.1 | 3439.1 | 948.6 | 897.9 | 903.4 | 877.4 | 841.1 | 844.5 | 815.8 | 758.9 |
| 5912.4 | 47.5° | 5047.3 | 3630.2 | 961.0 | 887.0 | 871.9 | 842.5 | 814.4 | 799.3 | 756.9 | 714.4 |
| 6341.1 | 50° | 5396.6 | 3830.8 | 1006.2 | 865.1 | 828.8 | 811.6 | 791.1 | 764.4 | 719.2 | 682.9 |
| 6746.6 | 52.5° | 5720.6 | 4032.9 | 1056.9 | 828.8 | 774.7 | 784.9 | 771.9 | 741.1 | 696.6 | 659.6 |
| 7130.2 | 55° | 6027.4 | 4235.0 | 1076.7 | 778.8 | 724.0 | 761.6 | 754.1 | 697.3 | 643.8 | 613.7 |
| 7531.5 | 57.5° | 6361.7 | 4478.1 | 1054.8 | 715.1 | 682.9 | 734.9 | 706.2 | 643.2 | 612.3 | 589.7 |
| 8054.1 | 60° | 6824.7 | 4859.6 | 1007.5 | 636.3 | 643.8 | 695.2 | 645.9 | 619.9 | 586.3 | 561.0 |
| 8837.7 | 62.5° | 7593.9 | 5571.3 | 931.5 | 558.2 | 597.9 | 636.3 | 617.1 | 591.1 | 556.9 | 532.2 |
| 10177.4 | 65° | 8730.9 | 6560.3 | 788.4 | 497.3 | 546.6 | 578.8 | 586.3 | 560.3 | 524.7 | 498.6 |
| 11351.4 | 67.5° | 9689.8 | 7180.9 | 596.6 | 446.6 | 493.8 | 532.2 | 553.4 | 528.1 | 490.4 | 465.1 |
| 11626.1 | 70° | 9637.0 | 6730.2 | 455.5 | 396.6 | 447.3 | 486.3 | 513.7 | 493.8 | 453.4 | 429.5 |
| 10560.3 | 72.5° | 8559.6 | 5630.2 | 368.5 | 345.9 | 400.0 | 438.4 | 471.2 | 456.2 | 415.1 | 391.8 |
| 7736.3 | 75° | 6288.4 | 3996.6 | 294.5 | 294.5 | 341.1 | 388.4 | 424.7 | 415.1 | 377.4 | 361.0 |
| 3248.0 | 77.5° | 2650.7 | 1676.7 | 230.8 | 244.5 | 283.6 | 333.6 | 378.8 | 382.2 | 349.3 | 369.9 |
| 858.9 | 80° | 704.8 | 462.3 | 176.0 | 192.5 | 222.6 | 275.3 | 329.5 | 328.1 | 292.5 | 273.3 |
| 319.2 | 82.5° | 268.5 | 182.2 | 125.3 | 135.6 | 161.0 | 211.0 | 261.0 | 269.2 | 233.6 | 202.1 |
| 125.3 | 85° | 103.4 | 78.1 | 77.4 | 81.5 | 93.8 | 139.7 | 197.3 | 204.1 | 176.0 | 149.3 |
| 34.9 | 87.5° | 26.7 | 23.3 | 28.8 | 27.4 | 43.2 | 74.7 | 113.0 | 117.1 | 107.5 | 62.3 |
| 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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| <u>180°</u> |
|-------------|
| 1892.5 |
| 1805.5 |
| 1673.3 |
| 1552.7 |
| 1480.1 |
| 1459.6 |
| 1476.0 |
| 1499.3 |
| 1499.3 |
| 1465.1 |
| 1401.4 |
| 1317.8 |
| 1221.2 |
| 1114.4 |
| 1020.6 |
| 978.1 |
| 915.8 |
| 830.8 |
| 761.0 |
| 714.4 |
| 680.1 |
| 660.3 |
| 611.0 |
| 587.7 |
| 559.6 |
| 532.2 |
| 500.0 |
| 465.8 |
| 431.5 |
| 391.8 |
| 356.2 |
| 335.6 |
| 254.1 |
| 202.1 |
| 154.1 |
| 89.0 |
| 0.0 |

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