

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: P941085

Luminaire Tested: **GALN-SB4B-950-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941085
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-SB4B-950-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15556 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

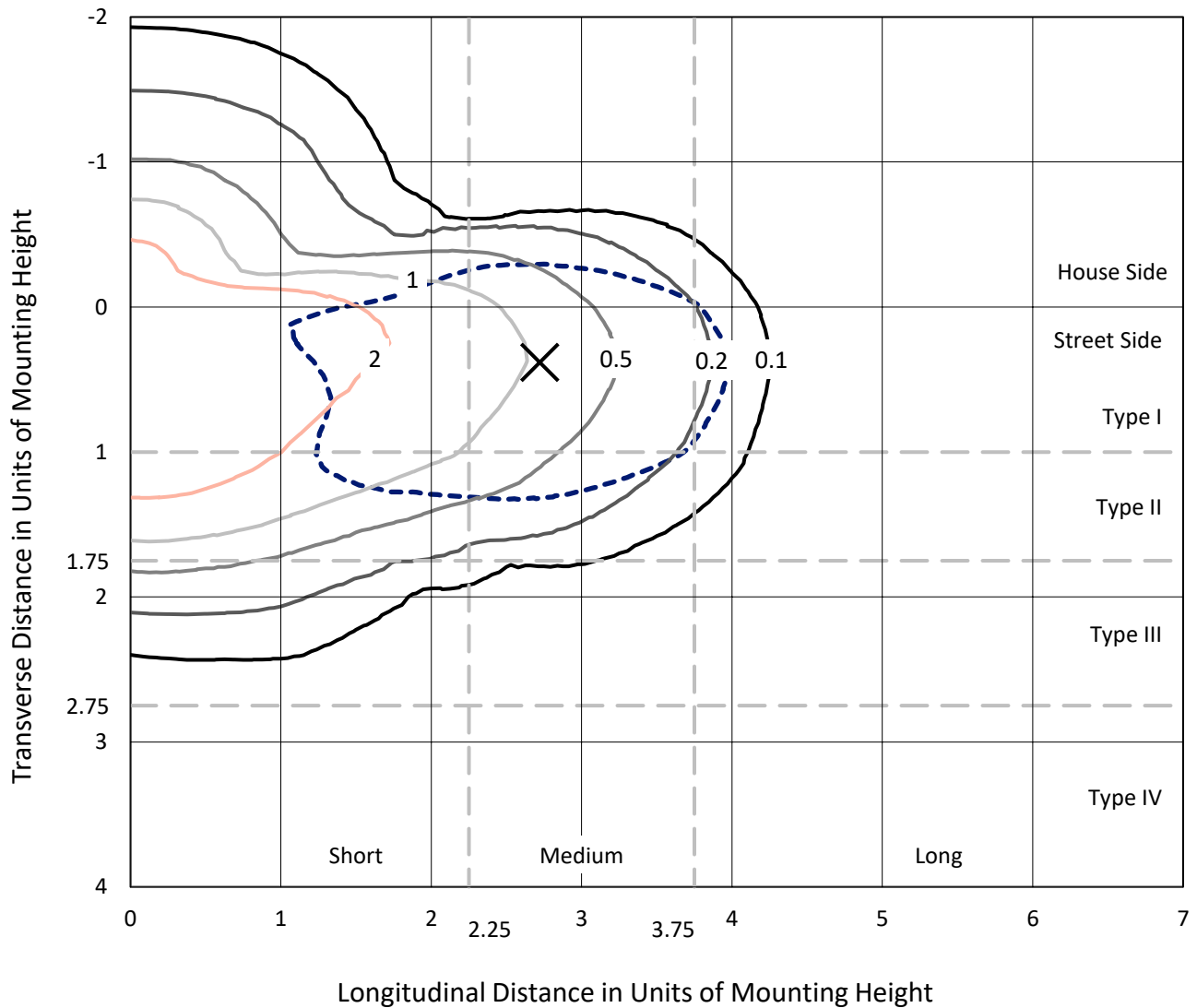
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

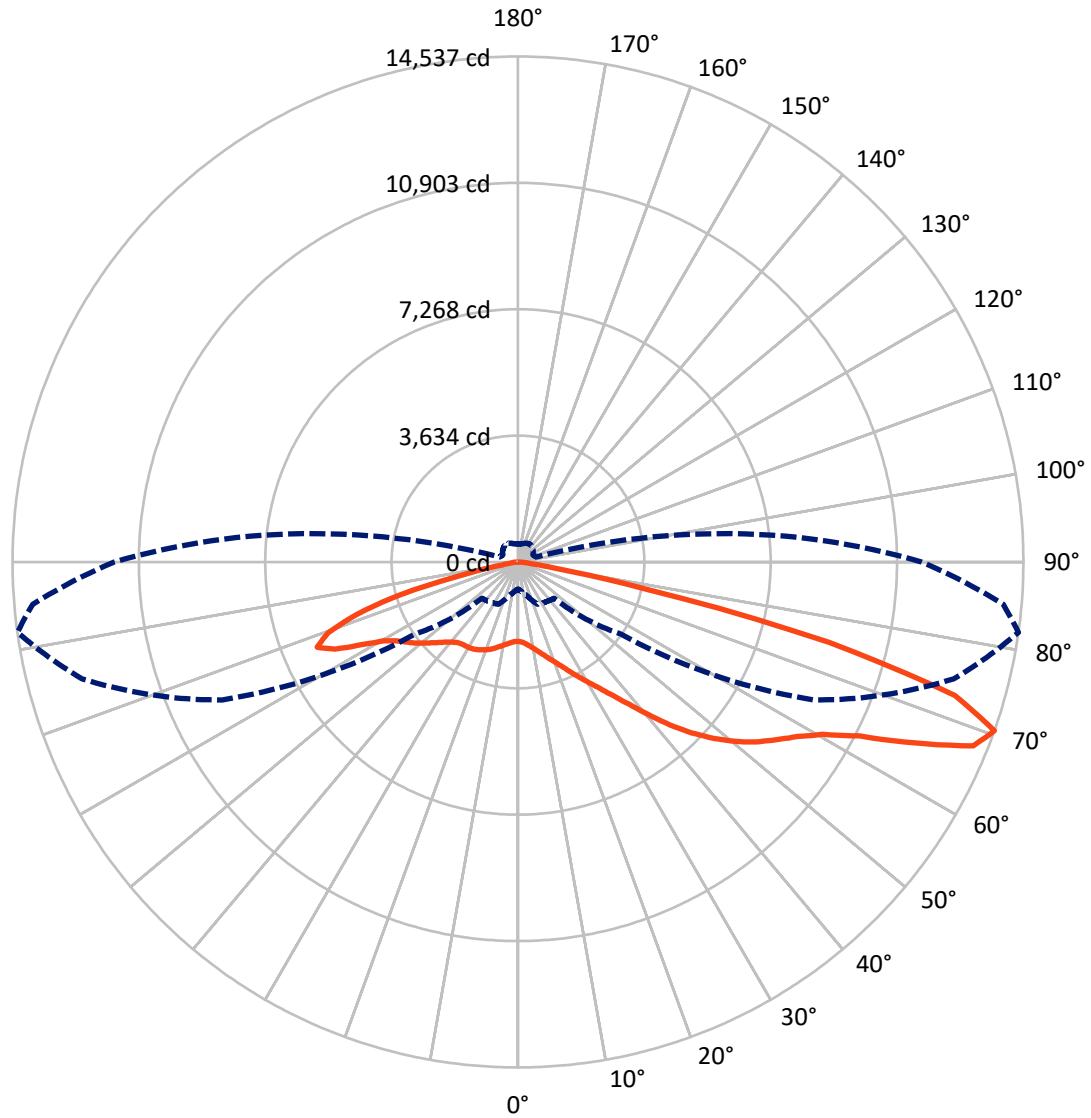
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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 | 3834.9 | 0.0 | 3834.9 |
| | % Fixture | 24.7 | 0.0 | 24.7 |
| Street Side | Lumens | 11721.1 | 0.0 | 11721.1 |
| | % Fixture | 75.3 | 0.0 | 75.3 |
| Total | Lumens | 15556.0 | 0.0 | 15556.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 215.3 | 1.4 |
| 10°-20° | 618.7 | 4.0 |
| 20°-30° | 1035.0 | 6.7 |
| 30°-40° | 1616.9 | 10.4 |
| 40°-50° | 2575.1 | 16.6 |
| 50°-60° | 3583.6 | 23.0 |
| 60°-70° | 3748.6 | 24.1 |
| 70°-80° | 1959.2 | 12.6 |
| 80°-90° | 203.4 | 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° | 15556.0 | 100.0 |
| 0°-180° | 15556.0 | 100.0 |

Coefficient of Utilization



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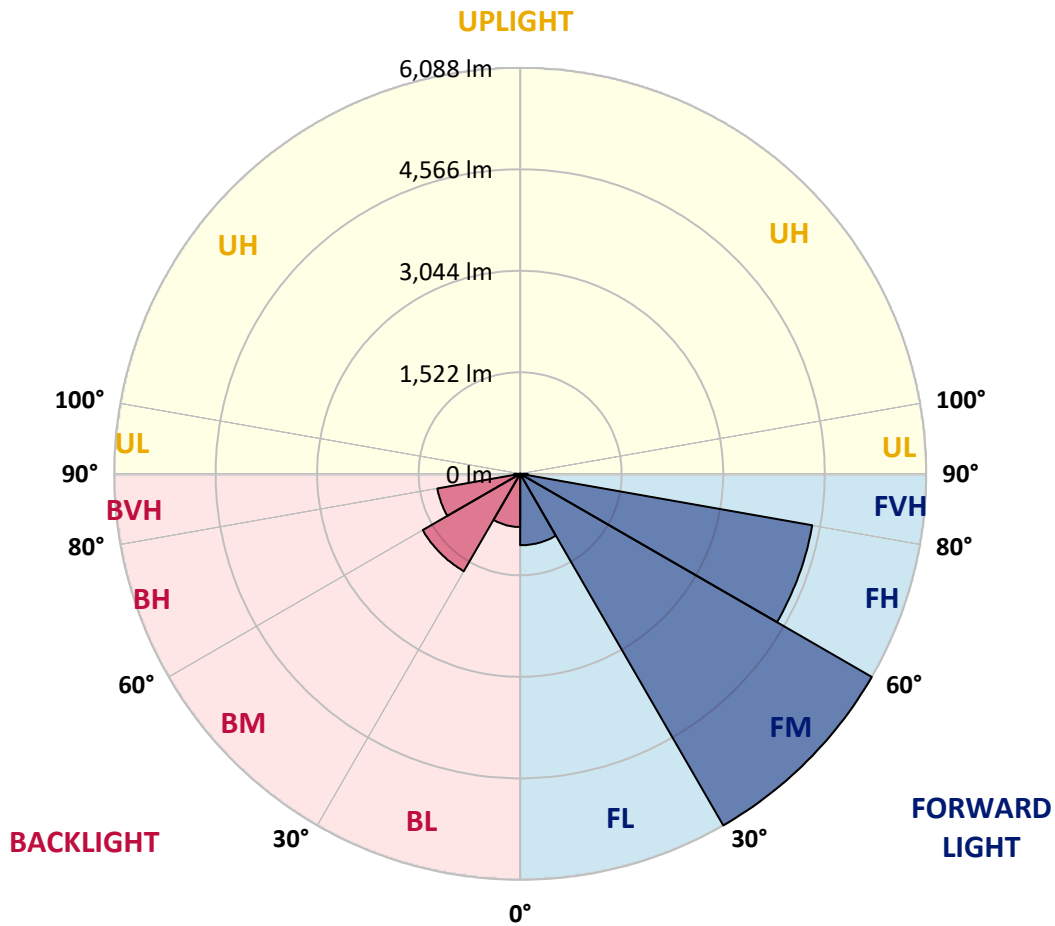
CATALOG NUMBER: GALN-SB4B-950-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1071.2 | 6.9 | | | |
| FM (30°-60°) | 6088.5 | 39.1 | | | |
| FH (60°-80°) | 4447.5 | 28.6 | | | G2/5000 |
| FVH (80°-90°) | 113.9 | 0.7 | | | G2/225 |
| BL (0°-30°) | 797.8 | 5.1 | B2/1000 | | |
| BM (30°-60°) | 1687.2 | 10.8 | B2/2500 | | |
| BH (60°-80°) | 1260.4 | 8.1 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 89.6 | 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



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 82° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 2280.7 | 2280.7 | 2280.7 | 2280.7 | 2280.7 | 2280.7 | 2280.7 | 2280.7 | 2280.7 | 2280.7 |
| 2.5° | 2335.2 | 2348.4 | 2344.3 | 2340.1 | 2340.1 | 2334.4 | 2333.5 | 2325.3 | 2318.7 | 2307.9 |
| 5° | 2364.9 | 2378.9 | 2377.3 | 2380.6 | 2391.3 | 2393.8 | 2396.3 | 2391.3 | 2378.1 | 2364.9 |
| 7.5° | 2338.5 | 2354.2 | 2359.1 | 2378.9 | 2411.9 | 2441.7 | 2464.0 | 2473.0 | 2460.7 | 2441.7 |
| 10° | 2249.3 | 2266.7 | 2284.0 | 2331.1 | 2389.7 | 2459.8 | 2519.3 | 2554.8 | 2552.3 | 2534.1 |
| 12.5° | 2068.6 | 2086.7 | 2123.9 | 2215.5 | 2322.8 | 2446.6 | 2557.2 | 2631.5 | 2657.1 | 2643.9 |
| 15° | 1924.1 | 1939.8 | 1967.9 | 2062.0 | 2201.5 | 2389.7 | 2571.3 | 2715.7 | 2780.9 | 2773.5 |
| 17.5° | 1920.0 | 1926.6 | 1943.9 | 1988.5 | 2095.8 | 2300.5 | 2556.4 | 2798.3 | 2922.9 | 2922.1 |
| 20° | 1992.6 | 1995.1 | 2005.0 | 2014.1 | 2075.2 | 2232.8 | 2518.4 | 2866.8 | 3082.2 | 3082.2 |
| 22.5° | 2093.3 | 2091.7 | 2101.6 | 2093.3 | 2123.0 | 2227.1 | 2494.5 | 2927.0 | 3259.7 | 3272.9 |
| 25° | 2244.4 | 2236.1 | 2233.7 | 2214.7 | 2220.4 | 2280.7 | 2520.9 | 2995.5 | 3470.2 | 3497.4 |
| 27.5° | 2445.8 | 2432.6 | 2423.5 | 2379.8 | 2364.9 | 2391.3 | 2601.8 | 3078.1 | 3704.6 | 3751.6 |
| 30° | 2708.3 | 2684.3 | 2671.1 | 2595.2 | 2541.5 | 2545.7 | 2724.0 | 3187.9 | 3949.8 | 4025.7 |
| 32.5° | 3066.5 | 3029.4 | 2993.9 | 2869.2 | 2771.0 | 2738.8 | 2881.6 | 3339.7 | 4215.5 | 4336.9 |
| 35° | 3467.7 | 3438.0 | 3400.0 | 3207.7 | 3056.6 | 2982.3 | 3094.6 | 3551.9 | 4526.7 | 4719.1 |
| 37.5° | 3854.0 | 3828.4 | 3846.6 | 3587.4 | 3392.6 | 3284.4 | 3373.6 | 3836.7 | 4910.6 | 5194.5 |
| 40° | 4253.5 | 4233.7 | 4236.2 | 3988.5 | 3761.6 | 3640.2 | 3712.0 | 4194.1 | 5350.5 | 5760.0 |
| 42.5° | 4687.7 | 4672.8 | 4623.3 | 4403.7 | 4148.7 | 4035.6 | 4101.6 | 4606.8 | 5822.7 | 6403.8 |
| 45° | 5173.9 | 5164.8 | 5118.6 | 4866.8 | 4574.6 | 4447.5 | 4536.6 | 5062.5 | 6297.3 | 7009.7 |
| 47.5° | 5594.0 | 5601.5 | 5595.7 | 5383.6 | 5080.6 | 4894.1 | 5000.5 | 5537.9 | 6738.9 | 7579.2 |
| 50° | 5796.3 | 5835.1 | 5892.0 | 5826.0 | 5637.8 | 5447.9 | 5468.6 | 5996.9 | 7159.9 | 8113.3 |
| 52.5° | 5690.6 | 5764.1 | 5919.3 | 6024.9 | 6097.6 | 6057.9 | 6002.6 | 6452.5 | 7556.1 | 8595.4 |
| 55° | 5296.9 | 5400.1 | 5657.6 | 5912.7 | 6283.3 | 6571.4 | 6644.0 | 6957.7 | 7942.4 | 9019.6 |
| 57.5° | 4579.6 | 4747.1 | 4978.3 | 5494.2 | 6118.2 | 6819.8 | 7391.9 | 7658.5 | 8351.9 | 9472.8 |
| 60° | 3349.7 | 3574.2 | 3861.4 | 4629.1 | 5540.4 | 6686.9 | 8028.3 | 8734.9 | 8933.8 | 10059.7 |
| 62.5° | 2143.7 | 2282.4 | 2546.5 | 3269.6 | 4317.1 | 6005.9 | 8223.1 | 10080.3 | 9920.2 | 11022.2 |
| 65° | 1467.6 | 1556.8 | 1798.6 | 2204.8 | 2790.8 | 4470.6 | 7701.4 | 11089.0 | 11486.9 | 12547.6 |
| 67.5° | 1066.5 | 1134.2 | 1340.5 | 1696.3 | 1818.5 | 2645.6 | 5976.2 | 11042.8 | 13009.8 | 14119.2 |
| 70° | 777.6 | 825.4 | 998.8 | 1340.5 | 1399.1 | 1471.8 | 3620.4 | 9387.0 | 12976.8 | 14536.9 |
| 72.5° | 576.2 | 609.2 | 725.6 | 1040.1 | 1132.5 | 993.8 | 1792.0 | 6822.3 | 11150.9 | 13148.5 |
| 75° | 416.8 | 441.6 | 527.5 | 795.7 | 906.3 | 756.9 | 894.0 | 3986.9 | 7778.2 | 9249.1 |
| 77.5° | 318.6 | 337.6 | 393.7 | 582.8 | 725.6 | 567.9 | 554.7 | 1834.1 | 3688.1 | 3706.2 |
| 80° | 255.9 | 268.3 | 298.8 | 410.2 | 556.3 | 425.1 | 361.5 | 740.4 | 1165.5 | 986.4 |
| 82.5° | 188.2 | 208.8 | 252.6 | 288.1 | 397.9 | 293.0 | 220.4 | 373.9 | 443.3 | 381.4 |
| 85° | 107.3 | 121.3 | 152.7 | 206.4 | 254.2 | 179.1 | 126.3 | 165.9 | 206.4 | 169.2 |
| 87.5° | 38.0 | 49.5 | 53.7 | 80.9 | 110.6 | 74.3 | 48.7 | 47.9 | 67.7 | 50.4 |
| 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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 CATALOG NUMBER: GALN-SB4B-950-U-T2

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2280.7 | 0° | 2280.7 | 2280.7 | 2280.7 | 2280.7 | 2280.7 | 2280.7 | 2280.7 | 2280.7 | 2280.7 | 2280.7 |
| 2305.5 | 2.5° | 2297.2 | 2293.1 | 2276.6 | 2254.3 | 2231.2 | 2208.9 | 2201.5 | 2185.8 | 2175.0 | 2169.3 |
| 2359.1 | 5° | 2343.4 | 2330.2 | 2291.4 | 2241.9 | 2189.9 | 2133.8 | 2094.2 | 2057.8 | 2031.4 | 2006.7 |
| 2432.6 | 7.5° | 2409.5 | 2386.4 | 2319.5 | 2232.8 | 2140.4 | 2047.1 | 1977.8 | 1924.9 | 1889.4 | 1866.3 |
| 2518.4 | 10° | 2486.2 | 2450.7 | 2348.4 | 2218.8 | 2076.0 | 1942.3 | 1860.6 | 1815.2 | 1792.9 | 1780.5 |
| 2616.7 | 12.5° | 2574.6 | 2524.2 | 2378.1 | 2186.6 | 1977.8 | 1825.1 | 1768.9 | 1755.7 | 1756.5 | 1757.4 |
| 2740.5 | 15° | 2683.5 | 2613.4 | 2402.0 | 2116.4 | 1849.8 | 1735.1 | 1725.2 | 1746.6 | 1768.9 | 1779.7 |
| 2880.8 | 17.5° | 2806.5 | 2707.5 | 2406.2 | 2000.9 | 1724.4 | 1677.3 | 1708.7 | 1754.9 | 1788.7 | 1803.6 |
| 3037.6 | 20° | 2938.6 | 2803.2 | 2376.5 | 1837.4 | 1621.2 | 1630.3 | 1686.4 | 1745.8 | 1783.0 | 1801.9 |
| 3216.8 | 22.5° | 3089.6 | 2905.6 | 2305.5 | 1665.7 | 1537.0 | 1579.1 | 1645.1 | 1702.9 | 1741.7 | 1760.7 |
| 3427.2 | 25° | 3262.2 | 3020.3 | 2194.0 | 1521.3 | 1464.3 | 1521.3 | 1587.3 | 1635.2 | 1666.6 | 1683.9 |
| 3662.5 | 27.5° | 3453.7 | 3140.0 | 2045.5 | 1406.6 | 1400.8 | 1461.9 | 1516.3 | 1553.5 | 1570.0 | 1583.2 |
| 3912.6 | 30° | 3646.0 | 3249.0 | 1865.5 | 1319.9 | 1345.5 | 1403.3 | 1442.1 | 1458.6 | 1463.5 | 1466.0 |
| 4191.6 | 32.5° | 3854.0 | 3343.1 | 1676.5 | 1248.1 | 1292.6 | 1346.3 | 1369.4 | 1376.8 | 1353.7 | 1338.0 |
| 4530.0 | 35° | 4105.8 | 3443.8 | 1491.6 | 1191.1 | 1240.6 | 1286.9 | 1294.3 | 1287.7 | 1260.5 | 1228.3 |
| 4954.3 | 37.5° | 4417.0 | 3569.2 | 1343.8 | 1150.7 | 1191.9 | 1222.5 | 1213.4 | 1211.8 | 1214.2 | 1176.3 |
| 5464.4 | 40° | 4798.3 | 3732.7 | 1235.7 | 1119.3 | 1152.3 | 1158.9 | 1133.3 | 1147.4 | 1159.8 | 1102.0 |
| 6024.1 | 42.5° | 5221.8 | 3929.9 | 1167.2 | 1097.8 | 1119.3 | 1103.6 | 1064.0 | 1079.7 | 1078.0 | 1002.1 |
| 6586.2 | 45° | 5653.5 | 4144.6 | 1143.2 | 1082.2 | 1088.8 | 1057.4 | 1013.6 | 1017.8 | 983.1 | 914.6 |
| 7125.2 | 47.5° | 6082.7 | 4374.9 | 1158.1 | 1069.0 | 1050.8 | 1015.3 | 981.5 | 963.3 | 912.1 | 860.9 |
| 7642.0 | 50° | 6503.7 | 4616.7 | 1212.6 | 1042.5 | 998.8 | 978.2 | 953.4 | 921.2 | 866.7 | 823.0 |
| 8130.6 | 52.5° | 6894.1 | 4860.2 | 1273.7 | 998.8 | 933.6 | 946.0 | 930.3 | 893.1 | 839.5 | 794.9 |
| 8592.9 | 55° | 7263.9 | 5103.7 | 1297.6 | 938.5 | 872.5 | 917.9 | 908.8 | 840.3 | 775.9 | 739.6 |
| 9076.6 | 57.5° | 7666.7 | 5396.8 | 1271.2 | 861.8 | 823.0 | 885.7 | 851.0 | 775.1 | 737.9 | 710.7 |
| 9706.4 | 60° | 8224.7 | 5856.5 | 1214.2 | 766.8 | 775.9 | 837.8 | 778.4 | 747.0 | 706.6 | 676.0 |
| 10650.7 | 62.5° | 9151.7 | 6714.2 | 1122.6 | 672.7 | 720.6 | 766.8 | 743.7 | 712.4 | 671.1 | 641.4 |
| 12265.3 | 65° | 10521.9 | 7906.1 | 950.1 | 599.3 | 658.7 | 697.5 | 706.6 | 675.2 | 632.3 | 600.9 |
| 13680.1 | 67.5° | 11677.6 | 8654.0 | 719.0 | 538.2 | 595.1 | 641.4 | 667.0 | 636.4 | 591.0 | 560.5 |
| 14011.1 | 70° | 11614.0 | 8110.8 | 548.9 | 477.9 | 539.0 | 586.1 | 619.1 | 595.1 | 546.4 | 517.6 |
| 12726.7 | 72.5° | 10315.6 | 6785.2 | 444.1 | 416.8 | 482.1 | 528.3 | 567.9 | 549.7 | 500.2 | 472.2 |
| 9323.4 | 75° | 7578.4 | 4816.5 | 354.9 | 354.9 | 411.1 | 468.0 | 511.8 | 500.2 | 454.8 | 435.0 |
| 3914.3 | 77.5° | 3194.5 | 2020.7 | 278.2 | 294.7 | 341.7 | 402.0 | 456.5 | 460.6 | 421.0 | 445.7 |
| 1035.1 | 80° | 849.4 | 557.2 | 212.1 | 232.0 | 268.3 | 331.8 | 397.0 | 395.4 | 352.5 | 329.4 |
| 384.7 | 82.5° | 323.6 | 219.6 | 151.1 | 163.4 | 194.0 | 254.2 | 314.5 | 324.4 | 281.5 | 243.5 |
| 151.1 | 85° | 124.6 | 94.1 | 93.3 | 98.2 | 113.1 | 168.4 | 237.7 | 246.0 | 212.1 | 179.9 |
| 42.1 | 87.5° | 32.2 | 28.1 | 34.7 | 33.0 | 52.0 | 90.0 | 136.2 | 141.2 | 129.6 | 75.1 |
| 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> |
|-------------|
| 2280.7 |
| 2175.9 |
| 2016.6 |
| 1871.3 |
| 1783.8 |
| 1759.0 |
| 1778.8 |
| 1806.9 |
| 1806.9 |
| 1765.6 |
| 1688.9 |
| 1588.2 |
| 1471.8 |
| 1343.0 |
| 1229.9 |
| 1178.7 |
| 1103.6 |
| 1001.3 |
| 917.1 |
| 860.9 |
| 819.7 |
| 795.7 |
| 736.3 |
| 708.2 |
| 674.4 |
| 641.4 |
| 602.6 |
| 561.3 |
| 520.0 |
| 472.2 |
| 429.2 |
| 404.5 |
| 306.2 |
| 243.5 |
| 185.7 |
| 107.3 |
| 0.0 |

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