

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: P940055

Luminaire Tested: **GALN-SB2D-940-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940055
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-SB2D-940-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14612 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

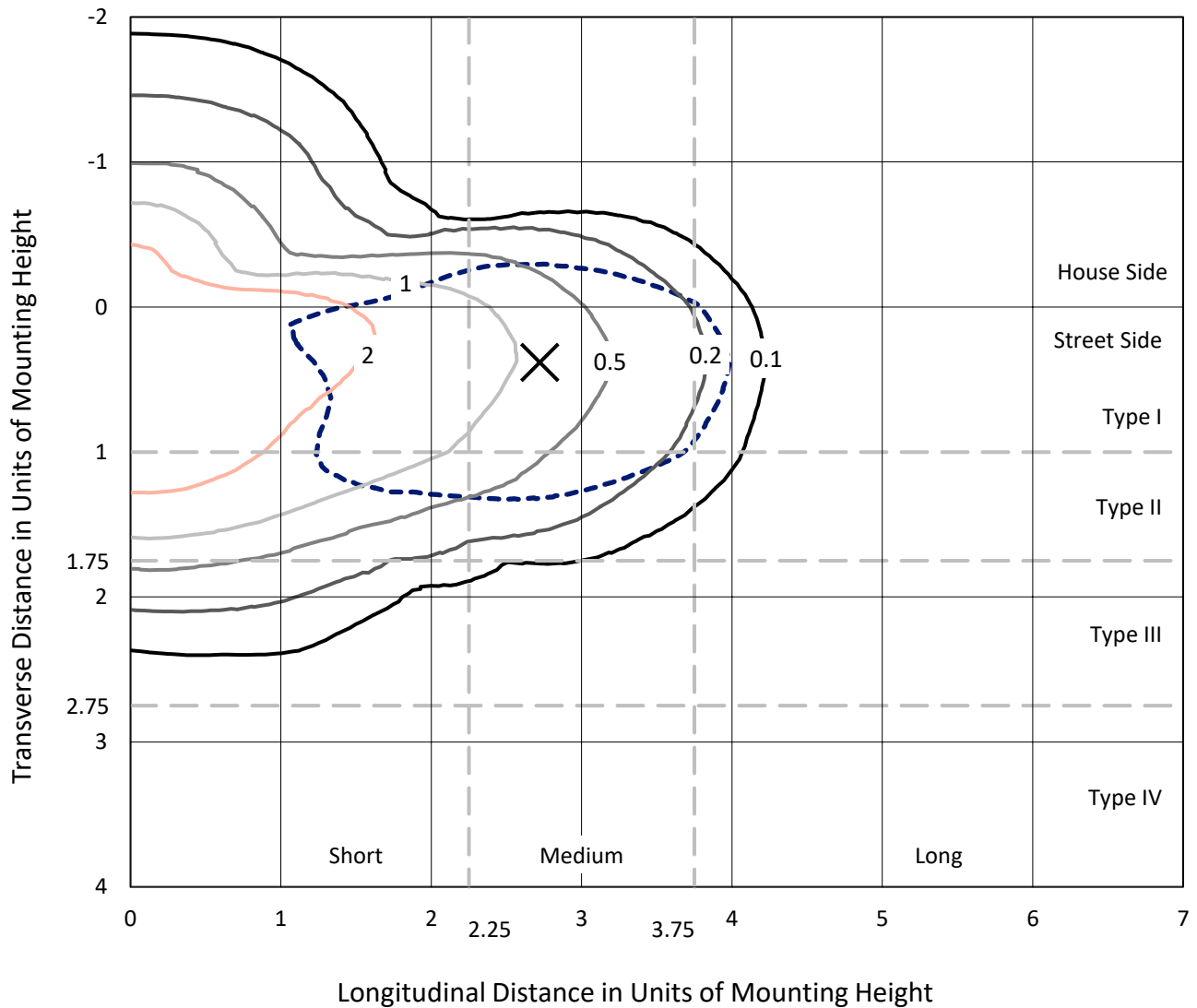
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

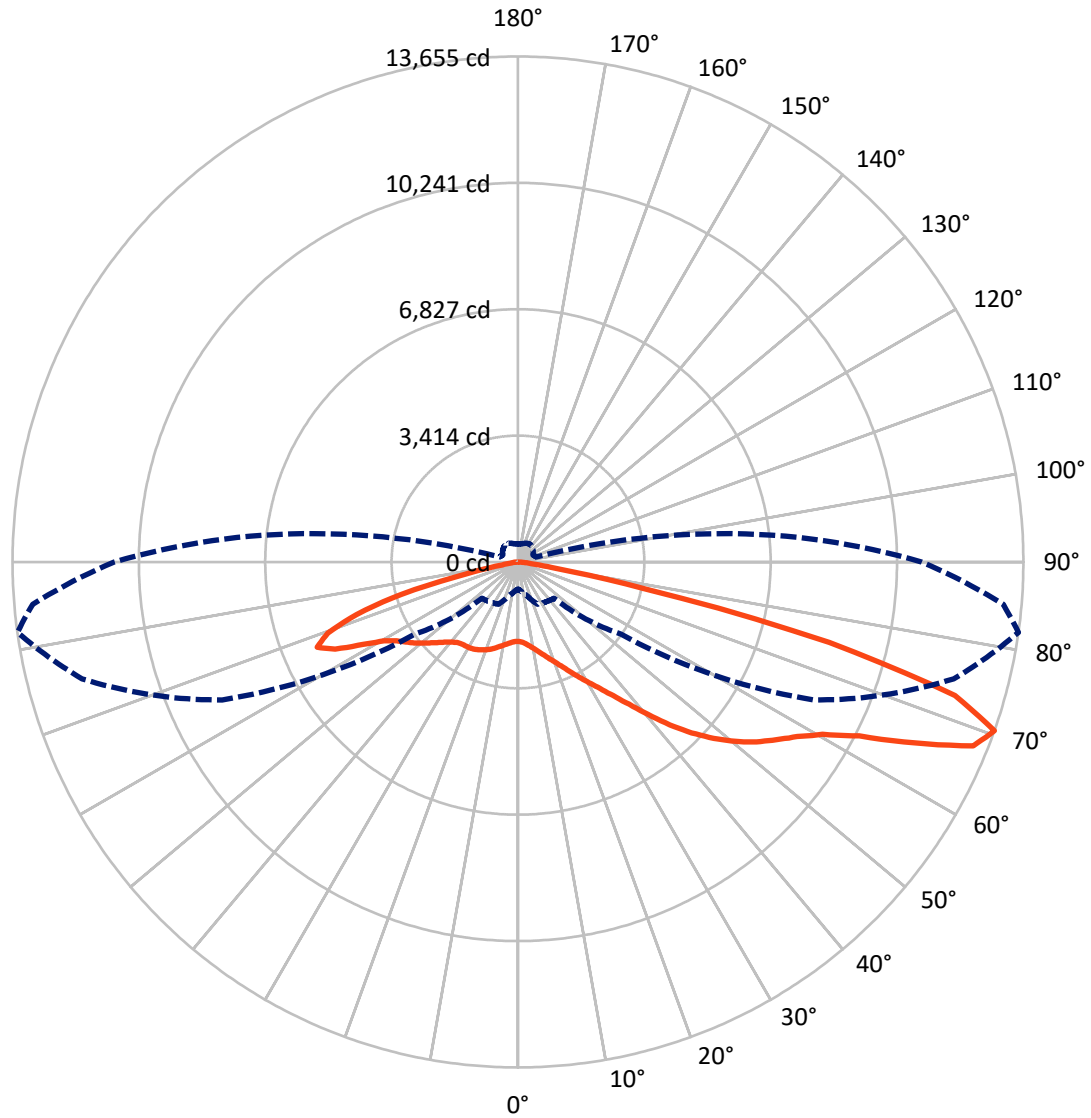
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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 | 3602.2 | 0.0 | 3602.2 |
| | % Fixture | 24.7 | 0.0 | 24.7 |
| Street Side | Lumens | 11009.8 | 0.0 | 11009.8 |
| | % Fixture | 75.3 | 0.0 | 75.3 |
| Total | Lumens | 14612.0 | 0.0 | 14612.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 202.3 | 1.4 |
| 10°-20° | 581.1 | 4.0 |
| 20°-30° | 972.2 | 6.7 |
| 30°-40° | 1518.8 | 10.4 |
| 40°-50° | 2418.9 | 16.6 |
| 50°-60° | 3366.2 | 23.0 |
| 60°-70° | 3521.1 | 24.1 |
| 70°-80° | 1840.3 | 12.6 |
| 80°-90° | 191.1 | 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° | 14612.0 | 100.0 |
| 0°-180° | 14612.0 | 100.0 |



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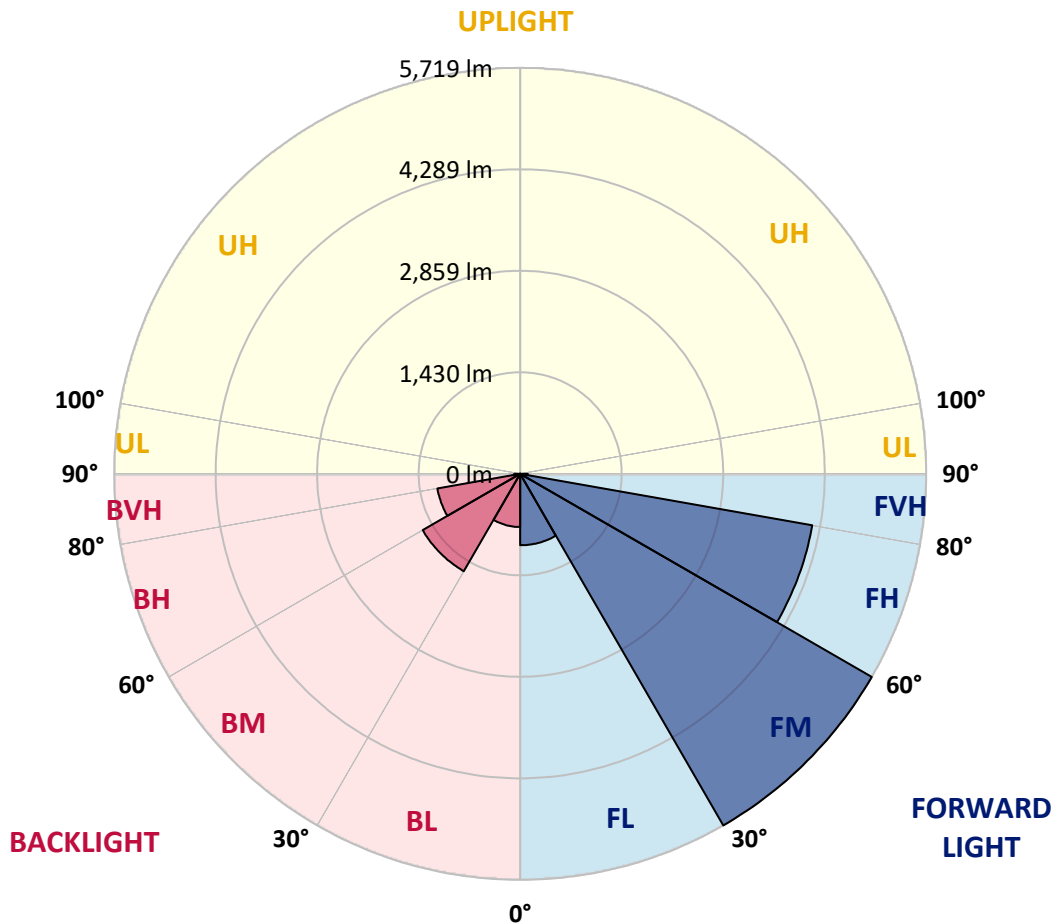
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1006.2 | 6.9 | | | |
| FM (30°-60°) | 5719.0 | 39.1 | | | |
| FH (60°-80°) | 4177.6 | 28.6 | | | G2/5000 |
| FVH (80°-90°) | 107.0 | 0.7 | | | G2/225 |
| BL (0°-30°) | 749.4 | 5.1 | B2/1000 | | |
| BM (30°-60°) | 1584.8 | 10.8 | B2/2500 | | |
| BH (60°-80°) | 1183.9 | 8.1 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 84.1 | 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° | 2142.3 | 2142.3 | 2142.3 | 2142.3 | 2142.3 | 2142.3 | 2142.3 | 2142.3 | 2142.3 | 2142.3 |
| 2.5° | 2193.5 | 2205.9 | 2202.0 | 2198.1 | 2198.1 | 2192.7 | 2191.9 | 2184.2 | 2178.0 | 2167.9 |
| 5° | 2221.4 | 2234.6 | 2233.0 | 2236.1 | 2246.2 | 2248.5 | 2250.9 | 2246.2 | 2233.8 | 2221.4 |
| 7.5° | 2196.6 | 2211.3 | 2216.0 | 2234.6 | 2265.6 | 2293.5 | 2314.4 | 2323.0 | 2311.3 | 2293.5 |
| 10° | 2112.8 | 2129.1 | 2145.4 | 2189.6 | 2244.6 | 2310.6 | 2366.4 | 2399.7 | 2397.4 | 2380.3 |
| 12.5° | 1943.0 | 1960.1 | 1995.0 | 2081.0 | 2181.8 | 2298.1 | 2402.0 | 2471.8 | 2495.9 | 2483.5 |
| 15° | 1807.3 | 1822.1 | 1848.4 | 1936.8 | 2067.9 | 2244.6 | 2415.2 | 2550.9 | 2612.2 | 2605.2 |
| 17.5° | 1803.5 | 1809.7 | 1826.0 | 1867.8 | 1968.6 | 2160.9 | 2401.3 | 2628.4 | 2745.5 | 2744.8 |
| 20° | 1871.7 | 1874.0 | 1883.3 | 1891.9 | 1949.2 | 2097.3 | 2365.6 | 2692.8 | 2895.2 | 2895.2 |
| 22.5° | 1966.3 | 1964.7 | 1974.1 | 1966.3 | 1994.2 | 2091.9 | 2343.1 | 2749.4 | 3061.9 | 3074.3 |
| 25° | 2108.2 | 2100.4 | 2098.1 | 2080.3 | 2085.7 | 2142.3 | 2367.9 | 2813.8 | 3259.6 | 3285.2 |
| 27.5° | 2297.4 | 2285.0 | 2276.4 | 2235.3 | 2221.4 | 2246.2 | 2443.9 | 2891.3 | 3479.8 | 3524.0 |
| 30° | 2543.9 | 2521.4 | 2509.0 | 2437.7 | 2387.3 | 2391.2 | 2558.7 | 2994.4 | 3710.1 | 3781.4 |
| 32.5° | 2880.4 | 2845.5 | 2812.2 | 2695.1 | 2602.9 | 2572.6 | 2706.8 | 3137.1 | 3959.7 | 4073.7 |
| 35° | 3257.3 | 3229.3 | 3193.7 | 3013.0 | 2871.1 | 2801.4 | 2906.8 | 3336.3 | 4252.0 | 4432.7 |
| 37.5° | 3620.1 | 3596.1 | 3613.1 | 3369.7 | 3186.7 | 3085.1 | 3168.9 | 3603.8 | 4612.6 | 4879.3 |
| 40° | 3995.4 | 3976.8 | 3979.1 | 3746.5 | 3533.3 | 3419.3 | 3486.8 | 3939.6 | 5025.8 | 5410.4 |
| 42.5° | 4403.2 | 4389.3 | 4342.8 | 4136.5 | 3896.9 | 3790.7 | 3852.7 | 4327.2 | 5469.3 | 6015.2 |
| 45° | 4859.9 | 4851.4 | 4808.0 | 4571.5 | 4297.0 | 4177.6 | 4261.3 | 4755.2 | 5915.2 | 6584.3 |
| 47.5° | 5254.6 | 5261.5 | 5256.1 | 5056.9 | 4772.3 | 4597.1 | 4697.1 | 5201.8 | 6330.0 | 7119.3 |
| 50° | 5444.5 | 5481.0 | 5534.5 | 5472.4 | 5295.7 | 5117.3 | 5136.7 | 5632.9 | 6725.4 | 7621.0 |
| 52.5° | 5345.3 | 5414.3 | 5560.1 | 5659.3 | 5727.5 | 5690.3 | 5638.4 | 6060.9 | 7097.6 | 8073.8 |
| 55° | 4975.4 | 5072.4 | 5314.3 | 5553.9 | 5902.0 | 6172.6 | 6240.8 | 6535.5 | 7460.5 | 8472.3 |
| 57.5° | 4301.7 | 4459.1 | 4676.2 | 5160.8 | 5746.9 | 6406.0 | 6943.3 | 7193.7 | 7845.0 | 8898.0 |
| 60° | 3146.4 | 3357.3 | 3627.1 | 4348.2 | 5204.2 | 6281.1 | 7541.1 | 8204.8 | 8391.7 | 9449.2 |
| 62.5° | 2013.6 | 2143.9 | 2392.0 | 3071.2 | 4055.1 | 5641.5 | 7724.1 | 9468.6 | 9318.2 | 10353.3 |
| 65° | 1378.6 | 1462.3 | 1689.5 | 2071.0 | 2621.5 | 4199.3 | 7234.0 | 10416.1 | 10789.8 | 11786.1 |
| 67.5° | 1001.8 | 1065.3 | 1259.2 | 1593.4 | 1708.1 | 2485.0 | 5613.6 | 10372.7 | 12220.3 | 13262.4 |
| 70° | 730.4 | 775.4 | 938.2 | 1259.2 | 1314.2 | 1382.5 | 3400.7 | 8817.3 | 12189.3 | 13654.8 |
| 72.5° | 541.2 | 572.2 | 681.5 | 976.9 | 1063.8 | 933.5 | 1683.3 | 6408.3 | 10474.3 | 12350.6 |
| 75° | 391.6 | 414.8 | 495.5 | 747.4 | 851.3 | 711.0 | 839.7 | 3745.0 | 7306.2 | 8687.8 |
| 77.5° | 299.3 | 317.1 | 369.8 | 547.4 | 681.5 | 533.4 | 521.0 | 1722.8 | 3464.3 | 3481.3 |
| 80° | 240.4 | 252.0 | 280.7 | 385.4 | 522.6 | 399.3 | 339.6 | 695.5 | 1094.8 | 926.5 |
| 82.5° | 176.8 | 196.2 | 237.3 | 270.6 | 373.7 | 275.3 | 207.0 | 351.2 | 416.4 | 358.2 |
| 85° | 100.8 | 114.0 | 143.4 | 193.8 | 238.8 | 168.3 | 118.6 | 155.8 | 193.8 | 158.9 |
| 87.5° | 35.7 | 46.5 | 50.4 | 76.0 | 103.9 | 69.8 | 45.7 | 45.0 | 63.6 | 47.3 |
| 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° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2142.3 | 0° | 2142.3 | 2142.3 | 2142.3 | 2142.3 | 2142.3 | 2142.3 | 2142.3 | 2142.3 | 2142.3 | 2142.3 |
| 2165.6 | 2.5° | 2157.8 | 2153.9 | 2138.4 | 2117.5 | 2095.8 | 2074.8 | 2067.9 | 2053.1 | 2043.1 | 2037.6 |
| 2216.0 | 5° | 2201.2 | 2188.8 | 2152.4 | 2105.9 | 2057.0 | 2004.3 | 1967.1 | 1933.0 | 1908.1 | 1884.9 |
| 2285.0 | 7.5° | 2263.3 | 2241.5 | 2178.7 | 2097.3 | 2010.5 | 1922.9 | 1857.7 | 1808.1 | 1774.8 | 1753.1 |
| 2365.6 | 10° | 2335.4 | 2302.0 | 2205.9 | 2084.2 | 1950.0 | 1824.4 | 1747.6 | 1705.0 | 1684.1 | 1672.4 |
| 2457.9 | 12.5° | 2418.3 | 2371.0 | 2233.8 | 2053.9 | 1857.7 | 1714.3 | 1661.6 | 1649.2 | 1650.0 | 1650.7 |
| 2574.2 | 15° | 2520.7 | 2454.8 | 2256.3 | 1988.0 | 1737.6 | 1629.8 | 1620.5 | 1640.6 | 1661.6 | 1671.7 |
| 2706.0 | 17.5° | 2636.2 | 2543.2 | 2260.2 | 1879.5 | 1619.7 | 1575.5 | 1605.0 | 1648.4 | 1680.2 | 1694.1 |
| 2853.3 | 20° | 2760.3 | 2633.1 | 2232.2 | 1725.9 | 1522.8 | 1531.3 | 1584.0 | 1639.9 | 1674.8 | 1692.6 |
| 3021.6 | 22.5° | 2902.1 | 2729.2 | 2165.6 | 1564.7 | 1443.7 | 1483.3 | 1545.3 | 1599.6 | 1636.0 | 1653.8 |
| 3219.3 | 25° | 3064.2 | 2837.0 | 2060.9 | 1429.0 | 1375.5 | 1429.0 | 1491.0 | 1536.0 | 1565.4 | 1581.7 |
| 3440.2 | 27.5° | 3244.1 | 2949.4 | 1921.3 | 1321.2 | 1315.8 | 1373.2 | 1424.3 | 1459.2 | 1474.7 | 1487.1 |
| 3675.2 | 30° | 3424.7 | 3051.8 | 1752.3 | 1239.8 | 1263.8 | 1318.1 | 1354.5 | 1370.0 | 1374.7 | 1377.0 |
| 3937.2 | 32.5° | 3620.1 | 3140.2 | 1574.7 | 1172.3 | 1214.2 | 1264.6 | 1286.3 | 1293.3 | 1271.6 | 1256.8 |
| 4255.1 | 35° | 3856.6 | 3234.8 | 1401.1 | 1118.8 | 1165.4 | 1208.8 | 1215.8 | 1209.6 | 1184.0 | 1153.7 |
| 4653.7 | 37.5° | 4148.9 | 3352.6 | 1262.3 | 1080.8 | 1119.6 | 1148.3 | 1139.8 | 1138.2 | 1140.5 | 1104.9 |
| 5132.8 | 40° | 4507.1 | 3506.1 | 1160.7 | 1051.4 | 1082.4 | 1088.6 | 1064.6 | 1077.7 | 1089.4 | 1035.1 |
| 5658.5 | 42.5° | 4904.9 | 3691.5 | 1096.3 | 1031.2 | 1051.4 | 1036.6 | 999.4 | 1014.2 | 1012.6 | 941.3 |
| 6186.5 | 45° | 5310.4 | 3893.1 | 1073.9 | 1016.5 | 1022.7 | 993.2 | 952.1 | 956.0 | 923.4 | 859.1 |
| 6692.9 | 47.5° | 5713.6 | 4109.4 | 1087.8 | 1004.1 | 987.0 | 953.7 | 921.9 | 904.8 | 856.8 | 808.7 |
| 7178.2 | 50° | 6109.0 | 4336.6 | 1139.0 | 979.3 | 938.2 | 918.8 | 895.5 | 865.3 | 814.1 | 773.0 |
| 7637.2 | 52.5° | 6475.8 | 4565.3 | 1196.4 | 938.2 | 876.9 | 888.6 | 873.8 | 838.9 | 788.5 | 746.7 |
| 8071.4 | 55° | 6823.1 | 4794.0 | 1218.9 | 881.6 | 819.5 | 862.2 | 853.7 | 789.3 | 728.8 | 694.7 |
| 8525.8 | 57.5° | 7201.5 | 5069.3 | 1194.0 | 809.5 | 773.0 | 832.0 | 799.4 | 728.1 | 693.2 | 667.6 |
| 9117.4 | 60° | 7725.6 | 5501.1 | 1140.5 | 720.3 | 728.8 | 787.0 | 731.2 | 701.7 | 663.7 | 635.0 |
| 10004.4 | 62.5° | 8596.3 | 6306.7 | 1054.5 | 631.9 | 676.9 | 720.3 | 698.6 | 669.1 | 630.4 | 602.4 |
| 11521.0 | 65° | 9883.4 | 7426.3 | 892.4 | 562.9 | 618.7 | 655.2 | 663.7 | 634.2 | 593.9 | 564.5 |
| 12849.9 | 67.5° | 10968.9 | 8128.8 | 675.3 | 505.5 | 559.0 | 602.4 | 626.5 | 597.8 | 555.2 | 526.5 |
| 13160.9 | 70° | 10909.2 | 7618.6 | 515.6 | 448.9 | 506.3 | 550.5 | 581.5 | 559.0 | 513.3 | 486.1 |
| 11954.4 | 72.5° | 9689.6 | 6373.4 | 417.1 | 391.6 | 452.8 | 496.2 | 533.4 | 516.4 | 469.9 | 443.5 |
| 8757.6 | 75° | 7118.5 | 4524.2 | 333.4 | 333.4 | 386.1 | 439.6 | 480.7 | 469.9 | 427.2 | 408.6 |
| 3676.7 | 77.5° | 3000.6 | 1898.1 | 261.3 | 276.8 | 321.0 | 377.6 | 428.8 | 432.6 | 395.4 | 418.7 |
| 972.3 | 80° | 797.8 | 523.4 | 199.3 | 217.9 | 252.0 | 311.7 | 372.9 | 371.4 | 331.1 | 309.4 |
| 361.3 | 82.5° | 303.9 | 206.2 | 141.9 | 153.5 | 182.2 | 238.8 | 295.4 | 304.7 | 264.4 | 228.7 |
| 141.9 | 85° | 117.1 | 88.4 | 87.6 | 92.3 | 106.2 | 158.2 | 223.3 | 231.1 | 199.3 | 169.0 |
| 39.5 | 87.5° | 30.2 | 26.4 | 32.6 | 31.0 | 48.8 | 84.5 | 127.9 | 132.6 | 121.7 | 70.6 |
| 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> |
|-------------|
| 2142.3 |
| 2043.8 |
| 1894.2 |
| 1757.7 |
| 1675.5 |
| 1652.3 |
| 1670.9 |
| 1697.2 |
| 1697.2 |
| 1658.5 |
| 1586.4 |
| 1491.8 |
| 1382.5 |
| 1261.5 |
| 1155.3 |
| 1107.2 |
| 1036.6 |
| 940.5 |
| 861.4 |
| 808.7 |
| 769.9 |
| 747.4 |
| 691.6 |
| 665.3 |
| 633.5 |
| 602.4 |
| 566.0 |
| 527.2 |
| 488.5 |
| 443.5 |
| 403.2 |
| 379.9 |
| 287.7 |
| 228.7 |
| 174.5 |
| 100.8 |
| 0.0 |

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