

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: P949372

Luminaire Tested: **GALN-SB4A-927-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949372
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-927-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10877 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

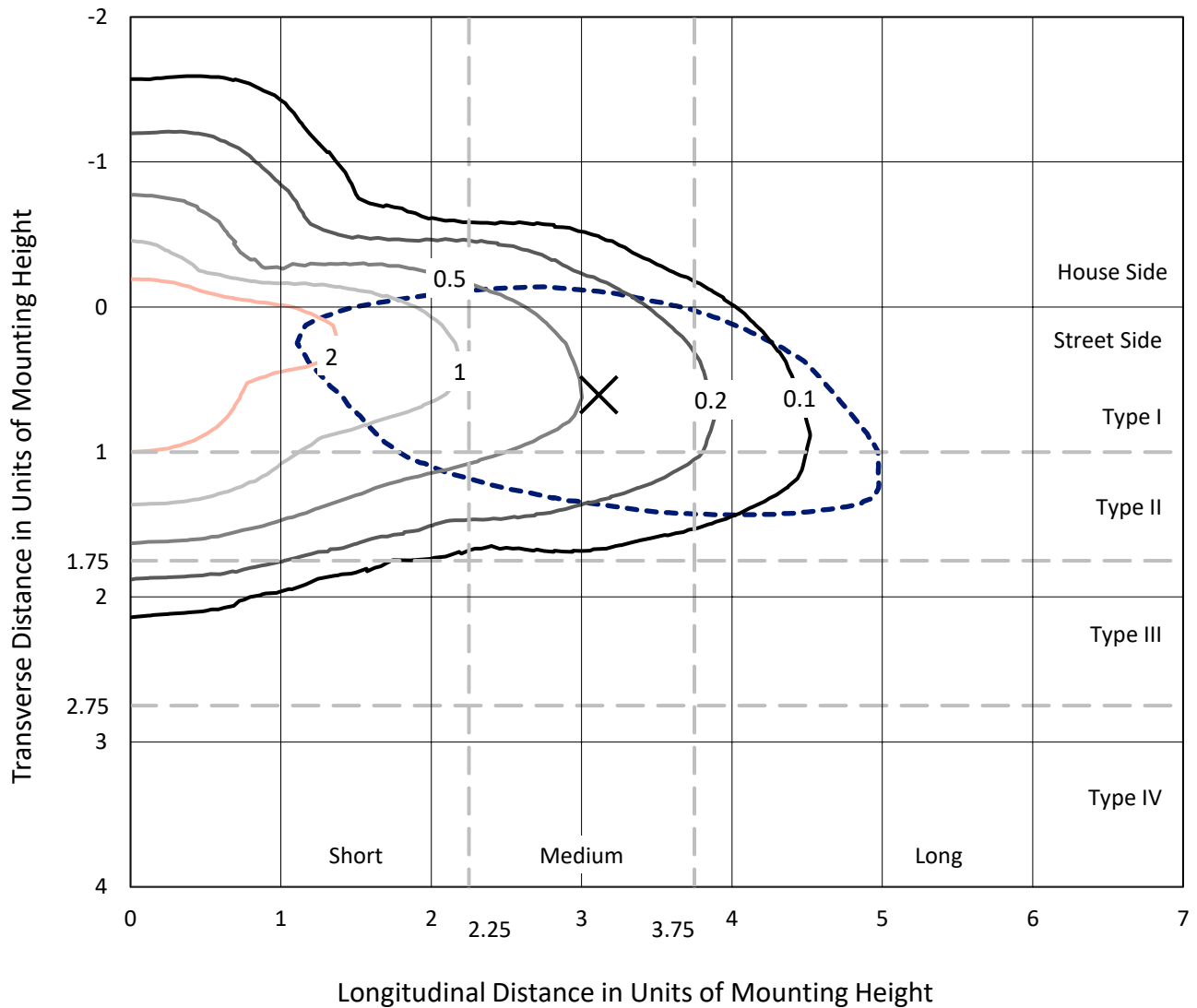
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

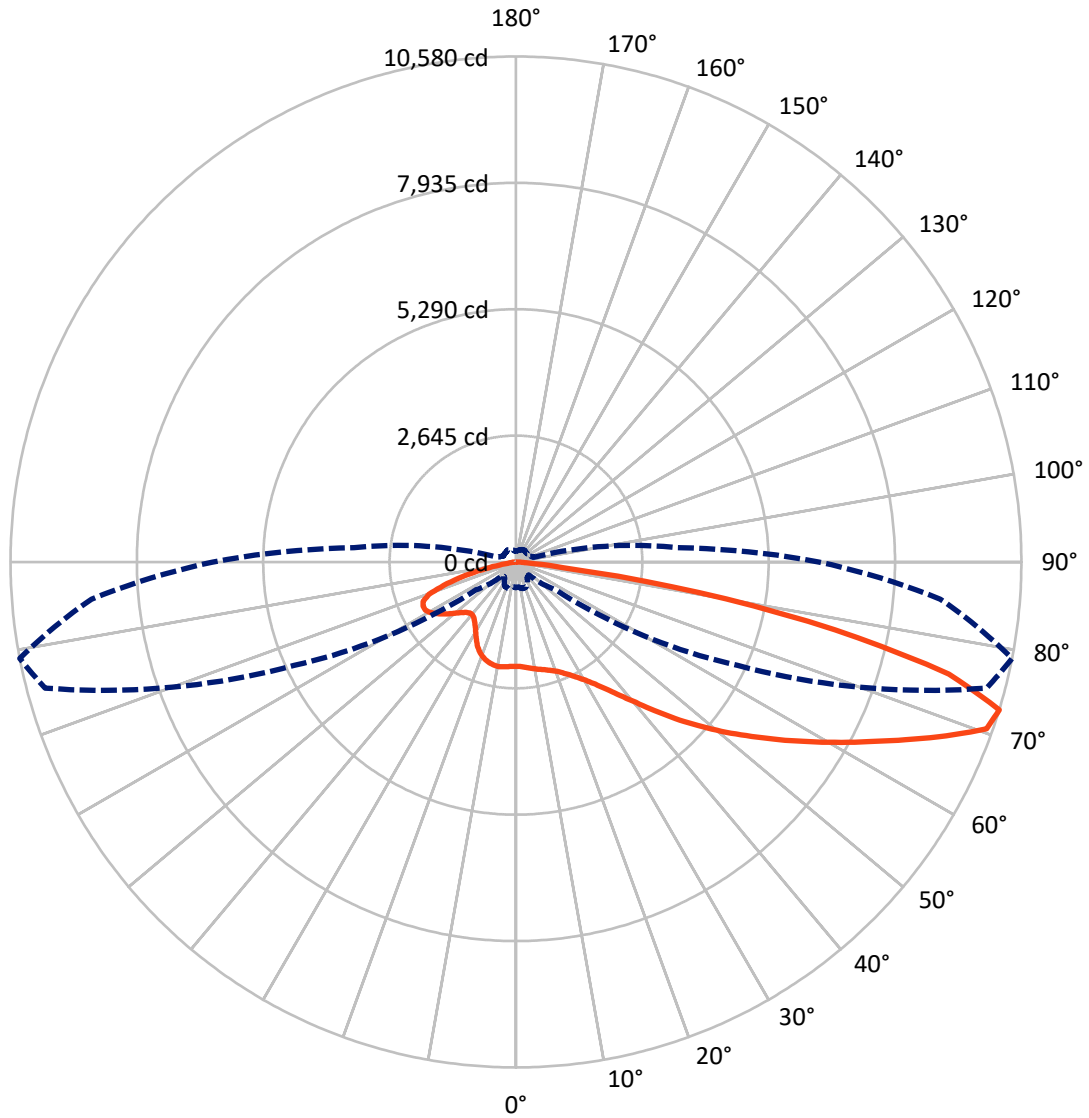
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2393.5 | 0.0 | 2393.5 |
| | % Fixture | 22.0 | 0.0 | 22.0 |
| Street Side | Lumens | 8483.5 | 0.0 | 8483.5 |
| | % Fixture | 78.0 | 0.0 | 78.0 |
| Total | Lumens | 10877.0 | 0.0 | 10877.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 198.2 | 1.8 |
| 10°-20° | 518.2 | 4.8 |
| 20°-30° | 836.1 | 7.7 |
| 30°-40° | 1254.9 | 11.5 |
| 40°-50° | 1780.2 | 16.4 |
| 50°-60° | 2248.1 | 20.7 |
| 60°-70° | 2283.3 | 21.0 |
| 70°-80° | 1556.1 | 14.3 |
| 80°-90° | 201.9 | 1.9 |
| 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° | 10877.0 | 100.0 |
| 0°-180° | 10877.0 | 100.0 |

Coefficient of Utilization



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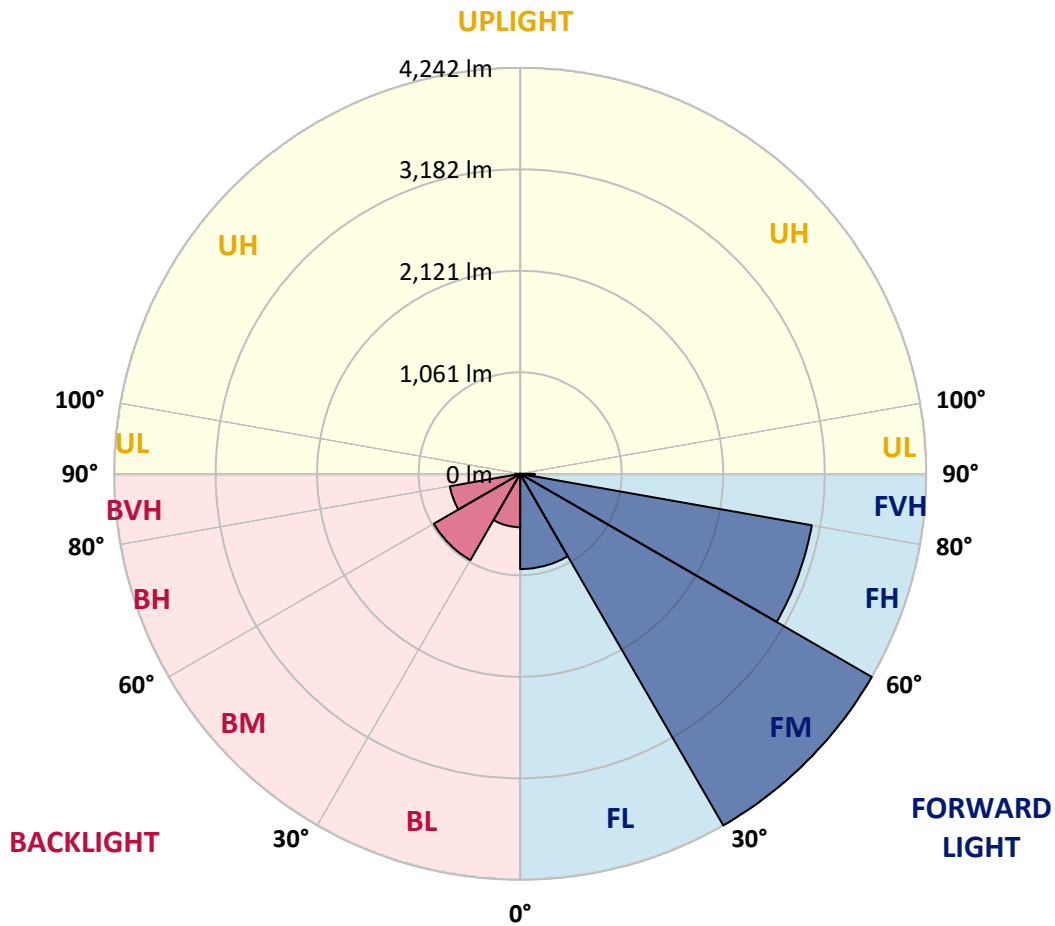
CATALOG NUMBER: GALN-SB4A-927-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 995.0 | 9.1 | | | |
| FM (30°-60°) | 4242.3 | 39.0 | | | |
| FH (60°-80°) | 3094.1 | 28.4 | | | G2/5000 |
| FVH (80°-90°) | 152.1 | 1.4 | | | G2/225 |
| BL (0°-30°) | 557.5 | 5.1 | B2/1000 | | |
| BM (30°-60°) | 1040.9 | 9.6 | B2/2500 | | |
| BH (60°-80°) | 745.3 | 6.9 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 49.8 | 0.5 | | | 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° | 79° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| 0° | 2183.5 | 2183.5 | 2183.5 | 2183.5 | 2183.5 | 2183.5 | 2183.5 | 2183.5 | 2183.5 | 2183.5 |
| 2.5° | 2184.6 | 2174.2 | 2180.6 | 2178.3 | 2181.2 | 2184.6 | 2185.8 | 2187.5 | 2193.2 | 2192.7 |
| 5° | 2180.0 | 2169.6 | 2178.3 | 2175.4 | 2182.9 | 2190.9 | 2197.8 | 2204.2 | 2213.4 | 2217.4 |
| 7.5° | 2170.2 | 2163.3 | 2171.9 | 2180.6 | 2194.4 | 2206.5 | 2216.2 | 2230.6 | 2243.9 | 2246.2 |
| 10° | 2113.3 | 2108.1 | 2128.2 | 2150.7 | 2188.6 | 2221.4 | 2242.7 | 2259.4 | 2273.8 | 2276.1 |
| 12.5° | 2054.0 | 2047.7 | 2070.1 | 2100.6 | 2162.2 | 2221.4 | 2266.3 | 2288.2 | 2300.8 | 2308.3 |
| 15° | 2044.2 | 2039.0 | 2051.7 | 2078.2 | 2129.4 | 2205.9 | 2282.4 | 2322.7 | 2333.6 | 2342.3 |
| 17.5° | 2091.4 | 2081.6 | 2086.8 | 2096.0 | 2125.9 | 2191.5 | 2295.1 | 2361.8 | 2378.5 | 2387.7 |
| 20° | 2200.7 | 2186.9 | 2178.9 | 2160.4 | 2155.3 | 2193.8 | 2293.9 | 2409.0 | 2430.9 | 2442.4 |
| 22.5° | 2346.3 | 2337.1 | 2319.8 | 2273.2 | 2222.6 | 2222.0 | 2315.8 | 2469.4 | 2510.3 | 2521.2 |
| 25° | 2522.3 | 2508.5 | 2486.7 | 2423.4 | 2326.1 | 2277.8 | 2352.6 | 2546.5 | 2615.0 | 2617.8 |
| 27.5° | 2724.9 | 2704.1 | 2674.2 | 2590.8 | 2459.6 | 2365.3 | 2409.0 | 2635.1 | 2735.2 | 2734.1 |
| 30° | 2938.3 | 2917.6 | 2886.0 | 2784.7 | 2619.6 | 2483.2 | 2487.2 | 2730.6 | 2877.9 | 2871.6 |
| 32.5° | 3094.2 | 3078.7 | 3072.4 | 2994.1 | 2803.7 | 2622.4 | 2577.0 | 2836.5 | 3054.0 | 3048.2 |
| 35° | 3213.9 | 3193.8 | 3201.2 | 3161.5 | 3004.5 | 2778.4 | 2686.9 | 2962.5 | 3268.0 | 3267.4 |
| 37.5° | 3332.4 | 3314.6 | 3320.9 | 3294.5 | 3190.3 | 2976.3 | 2820.9 | 3116.7 | 3533.2 | 3545.9 |
| 40° | 3440.6 | 3421.6 | 3446.9 | 3422.2 | 3334.7 | 3186.9 | 2973.4 | 3291.0 | 3840.5 | 3864.6 |
| 42.5° | 3505.6 | 3490.7 | 3532.7 | 3533.2 | 3460.2 | 3364.6 | 3140.8 | 3483.2 | 4196.0 | 4250.1 |
| 45° | 3528.0 | 3522.9 | 3586.2 | 3599.4 | 3571.2 | 3467.6 | 3291.6 | 3692.6 | 4579.2 | 4675.9 |
| 47.5° | 3503.9 | 3494.1 | 3581.6 | 3630.5 | 3652.9 | 3516.0 | 3416.4 | 3919.3 | 4970.5 | 5112.0 |
| 50° | 3381.9 | 3362.9 | 3493.0 | 3595.9 | 3675.9 | 3547.6 | 3542.4 | 4181.1 | 5415.2 | 5570.0 |
| 52.5° | 3162.7 | 3148.3 | 3296.2 | 3475.1 | 3625.3 | 3563.1 | 3684.0 | 4467.0 | 5837.5 | 6037.7 |
| 55° | 2882.5 | 2863.5 | 3026.3 | 3259.9 | 3499.3 | 3558.0 | 3825.5 | 4786.9 | 6335.8 | 6538.9 |
| 57.5° | 2438.3 | 2400.4 | 2606.3 | 2882.5 | 3293.9 | 3551.6 | 3972.8 | 5105.1 | 6842.1 | 7085.4 |
| 60° | 1790.5 | 1734.1 | 1986.7 | 2314.1 | 2892.3 | 3490.1 | 4155.2 | 5461.8 | 7449.6 | 7668.8 |
| 62.5° | 1042.5 | 1009.7 | 1174.9 | 1480.4 | 2180.0 | 3127.6 | 4257.6 | 5876.6 | 8046.8 | 8277.0 |
| 65° | 809.5 | 800.3 | 814.7 | 838.3 | 1213.4 | 2341.7 | 3941.7 | 6281.1 | 8806.3 | 8967.4 |
| 67.5° | 740.5 | 733.6 | 739.9 | 695.6 | 615.6 | 1304.3 | 3118.4 | 6383.5 | 9619.9 | 9717.7 |
| 70° | 658.2 | 650.1 | 670.9 | 632.9 | 484.4 | 593.2 | 2014.9 | 6011.8 | 10267.1 | 10450.7 |
| 72.5° | 536.2 | 527.0 | 575.4 | 558.1 | 407.9 | 380.9 | 1012.0 | 5128.7 | 10199.2 | 10580.1 |
| 75° | 412.0 | 406.8 | 464.3 | 478.7 | 332.6 | 299.8 | 485.6 | 3812.3 | 8975.5 | 9359.2 |
| 77.5° | 319.9 | 315.9 | 345.2 | 397.6 | 268.1 | 232.4 | 298.6 | 2418.2 | 6763.8 | 6831.1 |
| 80° | 239.9 | 228.4 | 255.5 | 307.8 | 208.9 | 169.7 | 202.5 | 1410.2 | 4275.4 | 3875.6 |
| 82.5° | 150.2 | 144.4 | 166.9 | 205.4 | 147.3 | 116.8 | 131.8 | 779.0 | 1713.4 | 1009.2 |
| 85° | 85.7 | 83.4 | 90.9 | 117.4 | 80.0 | 67.3 | 75.4 | 344.1 | 313.0 | 215.2 |
| 87.5° | 34.5 | 33.4 | 41.4 | 52.4 | 29.3 | 24.7 | 26.5 | 82.9 | 69.0 | 63.9 |
| 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° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2183.5 | 0° | 2183.5 | 2183.5 | 2183.5 | 2183.5 | 2183.5 | 2183.5 | 2183.5 | 2183.5 | 2183.5 | 2183.5 |
| 2192.1 | 2.5° | 2189.8 | 2189.8 | 2181.7 | 2169.1 | 2154.7 | 2145.5 | 2130.5 | 2126.5 | 2111.0 | 2106.4 |
| 2211.6 | 5° | 2216.2 | 2211.6 | 2186.9 | 2151.2 | 2102.3 | 2057.5 | 2008.0 | 1976.9 | 1933.2 | 1917.6 |
| 2250.2 | 7.5° | 2249.6 | 2237.0 | 2194.4 | 2116.1 | 2013.7 | 1913.0 | 1808.3 | 1728.9 | 1653.0 | 1625.9 |
| 2281.8 | 10° | 2280.1 | 2262.3 | 2189.8 | 2052.8 | 1875.6 | 1701.3 | 1534.5 | 1417.7 | 1329.1 | 1292.8 |
| 2316.9 | 12.5° | 2310.6 | 2277.8 | 2159.3 | 1947.6 | 1679.4 | 1443.0 | 1265.2 | 1174.3 | 1119.6 | 1075.9 |
| 2345.7 | 15° | 2339.4 | 2293.3 | 2112.1 | 1806.6 | 1464.3 | 1224.3 | 1093.2 | 1020.7 | 976.9 | 948.2 |
| 2387.7 | 17.5° | 2372.7 | 2306.6 | 2041.3 | 1627.7 | 1259.4 | 1073.0 | 966.0 | 922.3 | 913.7 | 910.2 |
| 2445.2 | 20° | 2419.3 | 2318.7 | 1948.1 | 1427.4 | 1108.7 | 952.2 | 897.0 | 892.9 | 892.4 | 890.6 |
| 2514.3 | 22.5° | 2469.4 | 2333.0 | 1825.0 | 1245.6 | 980.4 | 876.8 | 867.1 | 859.0 | 853.8 | 853.2 |
| 2597.7 | 25° | 2528.7 | 2337.6 | 1670.8 | 1096.6 | 871.1 | 841.2 | 829.7 | 817.6 | 814.1 | 814.1 |
| 2692.6 | 27.5° | 2586.2 | 2322.1 | 1491.3 | 967.2 | 809.5 | 808.4 | 793.4 | 789.4 | 788.8 | 790.5 |
| 2800.8 | 30° | 2643.7 | 2292.8 | 1312.9 | 847.5 | 773.8 | 773.8 | 768.7 | 771.5 | 773.8 | 779.6 |
| 2949.2 | 32.5° | 2721.4 | 2261.7 | 1163.9 | 758.9 | 742.8 | 737.0 | 742.2 | 748.0 | 750.3 | 757.7 |
| 3144.3 | 35° | 2835.3 | 2239.8 | 1045.4 | 710.6 | 710.6 | 703.1 | 706.0 | 704.8 | 699.6 | 696.2 |
| 3380.2 | 37.5° | 2986.1 | 2238.7 | 947.6 | 688.1 | 683.5 | 682.4 | 682.9 | 675.5 | 655.3 | 631.2 |
| 3665.6 | 40° | 3167.3 | 2269.8 | 872.2 | 672.6 | 669.1 | 676.0 | 672.6 | 652.4 | 597.2 | 555.2 |
| 4016.5 | 42.5° | 3410.7 | 2358.4 | 823.9 | 653.6 | 664.0 | 672.6 | 658.8 | 589.2 | 551.8 | 523.6 |
| 4416.4 | 45° | 3697.2 | 2502.2 | 799.2 | 633.5 | 654.2 | 664.5 | 597.8 | 567.3 | 537.4 | 503.4 |
| 4852.5 | 47.5° | 4021.7 | 2683.4 | 793.4 | 614.5 | 632.3 | 638.6 | 571.9 | 558.1 | 524.1 | 487.3 |
| 5290.9 | 50° | 4375.0 | 2898.0 | 808.9 | 592.0 | 600.7 | 578.8 | 563.3 | 550.6 | 515.5 | 479.3 |
| 5740.3 | 52.5° | 4740.3 | 3134.5 | 840.0 | 561.5 | 569.0 | 544.9 | 559.8 | 548.9 | 510.3 | 461.4 |
| 6204.6 | 55° | 5099.3 | 3372.7 | 869.9 | 525.9 | 536.8 | 514.4 | 550.0 | 542.0 | 486.7 | 431.5 |
| 6700.0 | 57.5° | 5464.1 | 3609.7 | 899.3 | 494.2 | 505.7 | 485.0 | 534.5 | 523.6 | 460.3 | 403.9 |
| 7240.8 | 60° | 5843.3 | 3839.9 | 913.1 | 463.7 | 471.8 | 458.0 | 510.9 | 491.9 | 430.4 | 375.7 |
| 7772.4 | 62.5° | 6198.2 | 4031.5 | 890.6 | 433.2 | 438.4 | 432.7 | 479.8 | 454.5 | 400.4 | 344.1 |
| 8326.5 | 65° | 6554.4 | 4145.4 | 821.6 | 403.3 | 404.5 | 401.6 | 436.1 | 414.3 | 365.3 | 316.4 |
| 8811.5 | 67.5° | 6877.2 | 4209.3 | 711.7 | 371.1 | 368.2 | 367.1 | 395.3 | 370.5 | 331.4 | 288.8 |
| 9180.3 | 70° | 6945.6 | 4047.0 | 543.7 | 333.1 | 333.1 | 330.3 | 350.4 | 325.1 | 294.0 | 259.5 |
| 8916.2 | 72.5° | 6343.8 | 3404.3 | 386.1 | 290.0 | 294.6 | 288.8 | 305.5 | 284.2 | 256.0 | 233.0 |
| 7684.4 | 75° | 5115.4 | 2496.4 | 280.8 | 245.7 | 253.7 | 243.9 | 259.5 | 244.5 | 220.4 | 219.8 |
| 5295.5 | 77.5° | 3514.8 | 1543.7 | 203.7 | 202.5 | 208.3 | 195.6 | 213.5 | 205.4 | 183.5 | 173.8 |
| 2304.9 | 80° | 1499.9 | 615.6 | 148.4 | 156.5 | 156.5 | 145.0 | 165.7 | 168.0 | 149.0 | 144.4 |
| 444.7 | 82.5° | 298.6 | 174.9 | 104.1 | 107.6 | 101.3 | 97.8 | 117.4 | 130.0 | 179.5 | 199.6 |
| 134.1 | 85° | 89.8 | 64.4 | 62.7 | 58.7 | 51.8 | 52.4 | 69.0 | 130.6 | 161.1 | 92.1 |
| 44.3 | 87.5° | 24.7 | 16.1 | 16.7 | 13.2 | 10.9 | 14.4 | 23.6 | 99.0 | 54.1 | 23.0 |
| 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° |
| 2183.5 |
| 2113.8 |
| 1929.1 |
| 1629.4 |
| 1300.9 |
| 1090.3 |
| 953.4 |
| 912.5 |
| 896.4 |
| 859.6 |
| 817.6 |
| 795.1 |
| 783.6 |
| 764.1 |
| 704.2 |
| 631.7 |
| 554.1 |
| 522.4 |
| 501.1 |
| 484.4 |
| 475.2 |
| 458.0 |
| 428.6 |
| 402.7 |
| 374.0 |
| 343.5 |
| 313.0 |
| 285.4 |
| 258.3 |
| 226.1 |
| 197.9 |
| 162.8 |
| 144.4 |
| 200.2 |
| 79.4 |
| 19.6 |
| 0.0 |

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