

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: P940734

Luminaire Tested: **GALN-SB3D-940-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940734
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-SB3D-940-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 4000K, 900mA 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: 16156 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

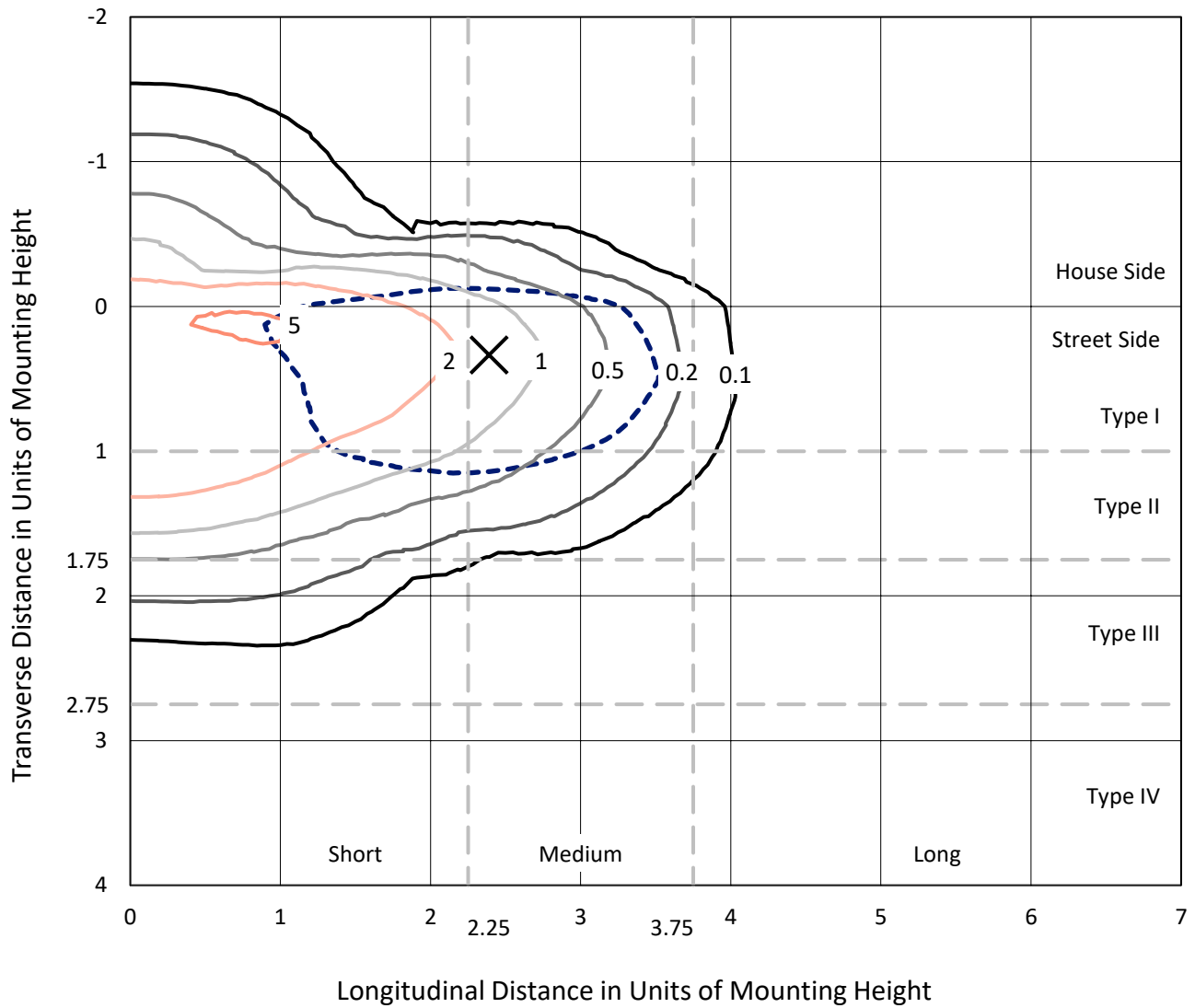
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

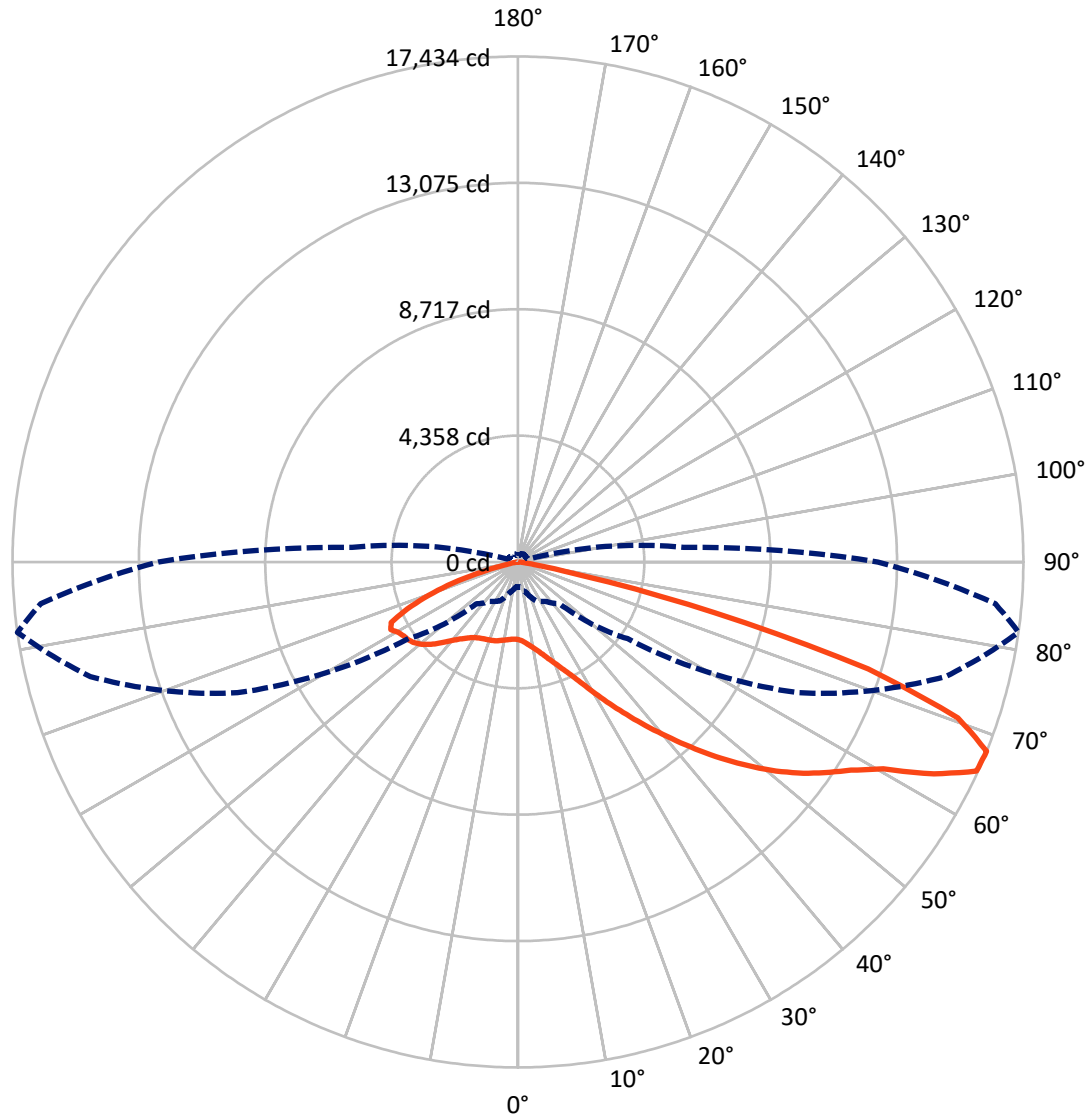
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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 | 2926.5 | 0.0 | 2926.5 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 13229.5 | 0.0 | 13229.5 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 16156.0 | 0.0 | 16156.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 238.5 | 1.5 |
| 10°-20° | 619.7 | 3.8 |
| 20°-30° | 992.5 | 6.1 |
| 30°-40° | 1755.0 | 10.9 |
| 40°-50° | 3075.0 | 19.0 |
| 50°-60° | 4101.1 | 25.4 |
| 60°-70° | 3817.9 | 23.6 |
| 70°-80° | 1465.3 | 9.1 |
| 80°-90° | 91.0 | 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° | 16156.0 | 100.0 |
| 0°-180° | 16156.0 | 100.0 |

Coefficient of Utilization



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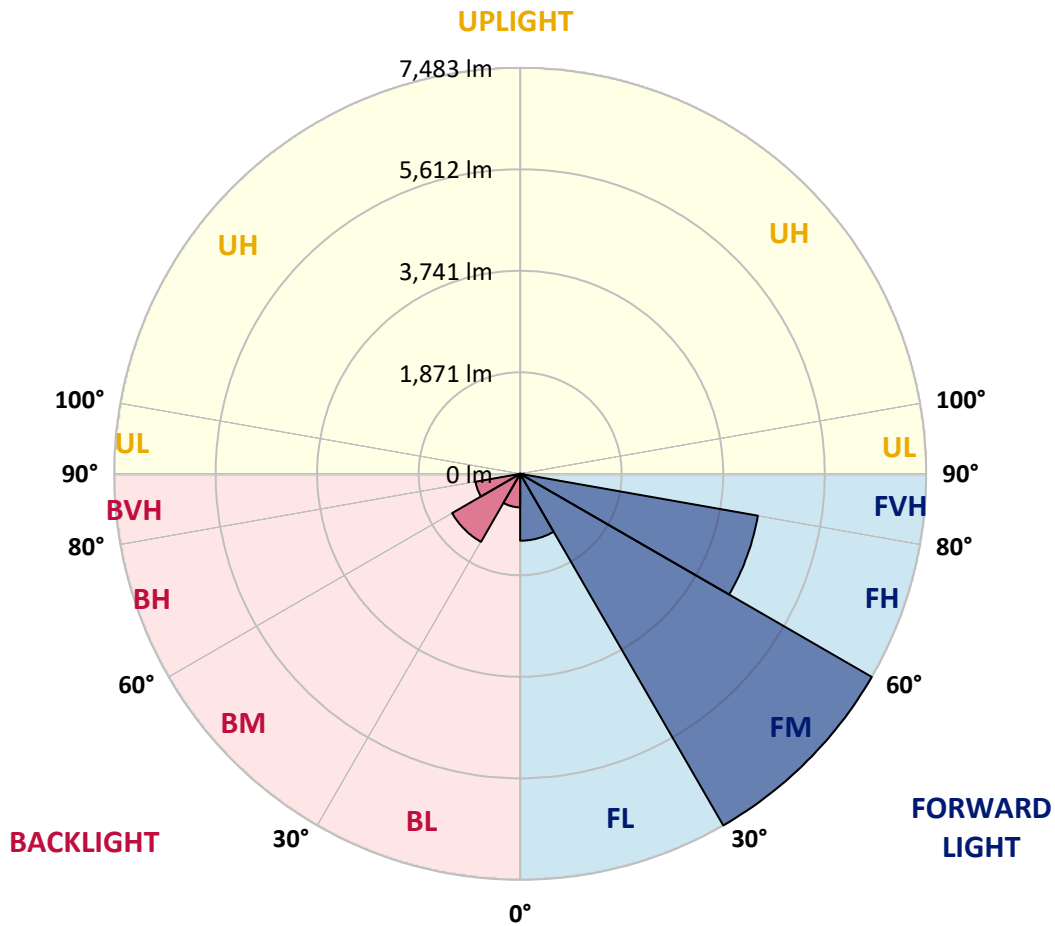
CATALOG NUMBER: GALN-SB3D-940-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1232.5 | 7.6 | | | |
| FM (30°-60°) | 7482.8 | 46.3 | | | |
| FH (60°-80°) | 4448.0 | 27.5 | | | G2/5000 |
| FVH (80°-90°) | 66.2 | 0.4 | | | G1/100 |
| BL (0°-30°) | 618.1 | 3.8 | B2/1000 | | |
| BM (30°-60°) | 1448.3 | 9.0 | B2/2500 | | |
| BH (60°-80°) | 835.3 | 5.2 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 24.8 | 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° | 2676.5 | 2676.5 | 2676.5 | 2676.5 | 2676.5 | 2676.5 | 2676.5 | 2676.5 | 2676.5 | 2676.5 |
| 2.5° | 2828.9 | 2845.2 | 2835.9 | 2831.2 | 2823.1 | 2811.4 | 2802.1 | 2773.0 | 2742.8 | 2723.0 |
| 5° | 2885.9 | 2902.2 | 2901.0 | 2905.7 | 2911.5 | 2915.0 | 2912.6 | 2880.1 | 2837.0 | 2803.3 |
| 7.5° | 2837.0 | 2855.6 | 2870.8 | 2894.0 | 2934.7 | 2977.8 | 2998.7 | 2991.7 | 2947.5 | 2901.0 |
| 10° | 2698.6 | 2718.4 | 2754.4 | 2809.1 | 2895.2 | 2988.2 | 3066.2 | 3102.2 | 3074.3 | 3023.1 |
| 12.5° | 2445.0 | 2464.8 | 2535.8 | 2654.4 | 2798.6 | 2960.3 | 3109.2 | 3205.8 | 3212.7 | 3161.6 |
| 15° | 2160.0 | 2179.8 | 2255.4 | 2404.3 | 2624.2 | 2883.6 | 3132.5 | 3315.1 | 3376.7 | 3332.5 |
| 17.5° | 1983.2 | 2000.7 | 2057.7 | 2177.5 | 2406.6 | 2730.0 | 3124.3 | 3431.4 | 3572.2 | 3537.3 |
| 20° | 1929.7 | 1944.9 | 1971.6 | 2055.4 | 2246.1 | 2570.7 | 3070.8 | 3540.8 | 3782.7 | 3762.9 |
| 22.5° | 1986.7 | 2000.7 | 2008.8 | 2046.1 | 2165.9 | 2466.0 | 3003.4 | 3652.4 | 4027.0 | 4029.3 |
| 25° | 2118.2 | 2132.1 | 2122.8 | 2146.1 | 2198.4 | 2433.4 | 2977.8 | 3783.9 | 4334.0 | 4359.6 |
| 27.5° | 2334.5 | 2335.7 | 2313.6 | 2312.4 | 2320.6 | 2482.2 | 3004.5 | 3924.6 | 4721.4 | 4769.1 |
| 30° | 2768.4 | 2750.9 | 2666.0 | 2574.1 | 2532.3 | 2628.8 | 3079.0 | 4090.9 | 5178.5 | 5263.4 |
| 32.5° | 3437.2 | 3411.6 | 3255.8 | 3035.9 | 2814.9 | 2864.9 | 3212.7 | 4280.5 | 5676.4 | 5829.9 |
| 35° | 4163.1 | 4156.1 | 3993.2 | 3666.4 | 3280.2 | 3201.1 | 3430.3 | 4529.5 | 6219.6 | 6463.9 |
| 37.5° | 4837.7 | 4834.2 | 4741.2 | 4356.2 | 3886.2 | 3669.9 | 3779.2 | 4855.2 | 6801.2 | 7154.8 |
| 40° | 5454.2 | 5464.7 | 5371.6 | 5027.3 | 4553.9 | 4271.2 | 4253.8 | 5257.6 | 7447.9 | 7907.4 |
| 42.5° | 5986.9 | 5998.6 | 5904.4 | 5649.6 | 5213.4 | 4936.6 | 4836.5 | 5750.8 | 8079.5 | 8715.8 |
| 45° | 6348.7 | 6420.8 | 6406.9 | 6203.3 | 5890.4 | 5603.1 | 5536.8 | 6369.6 | 8799.5 | 9573.1 |
| 47.5° | 6451.1 | 6517.4 | 6622.0 | 6650.0 | 6459.2 | 6176.5 | 6255.6 | 7115.2 | 9527.7 | 10431.5 |
| 50° | 6198.6 | 6260.3 | 6477.8 | 6767.4 | 6900.0 | 6812.8 | 6954.7 | 7914.4 | 10273.3 | 11287.6 |
| 52.5° | 5700.8 | 5763.6 | 6038.1 | 6496.4 | 7037.3 | 7311.8 | 7656.1 | 8701.8 | 10995.6 | 12098.3 |
| 55° | 4980.8 | 5047.1 | 5399.5 | 5918.3 | 6775.6 | 7517.7 | 8241.2 | 9488.1 | 11657.5 | 12827.7 |
| 57.5° | 4001.4 | 4050.2 | 4416.6 | 5142.5 | 6117.2 | 7313.0 | 8672.8 | 10346.6 | 12281.0 | 13544.2 |
| 60° | 2607.9 | 2650.9 | 3076.6 | 3886.2 | 5026.1 | 6629.0 | 8758.8 | 11303.9 | 13109.2 | 14475.9 |
| 62.5° | 1734.3 | 1763.4 | 2015.8 | 2610.2 | 3539.6 | 5315.8 | 8255.2 | 12068.1 | 14323.5 | 16097.4 |
| 65° | 1189.9 | 1219.0 | 1471.4 | 1885.5 | 2286.8 | 3516.3 | 6807.0 | 11966.9 | 15423.9 | 17385.1 |
| 67.5° | 849.1 | 873.6 | 1087.6 | 1478.4 | 1655.2 | 2042.6 | 4614.4 | 10673.4 | 15265.7 | 17433.9 |
| 70° | 608.3 | 622.3 | 799.1 | 1151.6 | 1315.6 | 1227.2 | 2566.0 | 8163.3 | 13366.2 | 16098.6 |
| 72.5° | 425.7 | 430.4 | 554.8 | 877.0 | 1059.7 | 895.7 | 1221.4 | 5442.6 | 10109.3 | 12635.7 |
| 75° | 288.5 | 294.3 | 373.4 | 643.2 | 850.3 | 684.0 | 646.7 | 2918.4 | 5934.6 | 6994.3 |
| 77.5° | 176.8 | 179.1 | 240.8 | 439.7 | 636.3 | 521.1 | 416.4 | 1236.5 | 2296.1 | 2254.3 |
| 80° | 100.0 | 100.0 | 153.5 | 273.3 | 433.9 | 336.2 | 292.0 | 525.8 | 727.0 | 638.6 |
| 82.5° | 55.8 | 57.0 | 111.7 | 169.8 | 287.3 | 198.9 | 160.5 | 243.1 | 314.1 | 278.0 |
| 85° | 23.3 | 25.6 | 68.6 | 80.3 | 137.3 | 98.9 | 65.1 | 102.4 | 116.3 | 103.5 |
| 87.5° | 2.3 | 3.5 | 20.9 | 15.1 | 16.3 | 19.8 | 9.3 | 19.8 | 16.3 | 16.3 |
| 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° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2676.5 | 0° | 2676.5 | 2676.5 | 2676.5 | 2676.5 | 2676.5 | 2676.5 | 2676.5 | 2676.5 | 2676.5 | 2676.5 |
| 2716.1 | 2.5° | 2694.0 | 2676.5 | 2632.3 | 2581.1 | 2513.7 | 2481.1 | 2436.9 | 2406.6 | 2381.1 | 2383.4 |
| 2783.5 | 5° | 2746.3 | 2702.1 | 2603.2 | 2479.9 | 2326.4 | 2217.0 | 2100.7 | 2020.5 | 1955.3 | 1941.4 |
| 2876.6 | 7.5° | 2818.4 | 2748.6 | 2575.3 | 2353.1 | 2093.7 | 1897.2 | 1721.5 | 1608.7 | 1528.4 | 1502.8 |
| 2989.4 | 10° | 2911.5 | 2810.3 | 2539.2 | 2193.8 | 1820.4 | 1570.3 | 1381.9 | 1293.5 | 1238.8 | 1220.2 |
| 3122.0 | 12.5° | 3019.6 | 2881.2 | 2491.6 | 1999.5 | 1538.9 | 1298.1 | 1178.3 | 1134.1 | 1116.7 | 1110.8 |
| 3284.9 | 15° | 3155.7 | 2969.6 | 2419.4 | 1769.2 | 1300.4 | 1131.8 | 1080.6 | 1074.8 | 1077.1 | 1074.8 |
| 3480.3 | 17.5° | 3317.4 | 3066.2 | 2302.0 | 1531.9 | 1139.9 | 1046.9 | 1028.3 | 1032.9 | 1038.7 | 1037.6 |
| 3698.9 | 20° | 3494.2 | 3161.6 | 2151.9 | 1321.4 | 1030.6 | 986.4 | 975.9 | 980.6 | 985.2 | 982.9 |
| 3951.4 | 22.5° | 3695.5 | 3263.9 | 1985.6 | 1157.4 | 957.3 | 930.6 | 918.9 | 920.1 | 920.1 | 915.4 |
| 4271.2 | 25° | 3936.2 | 3376.7 | 1811.1 | 1041.1 | 901.5 | 880.5 | 866.6 | 861.9 | 854.9 | 841.0 |
| 4659.7 | 27.5° | 4223.5 | 3496.6 | 1643.6 | 959.6 | 857.3 | 837.5 | 821.2 | 809.6 | 792.1 | 768.9 |
| 5126.2 | 30° | 4546.9 | 3642.0 | 1501.7 | 908.5 | 822.4 | 802.6 | 784.0 | 766.5 | 741.0 | 711.9 |
| 5662.4 | 32.5° | 4927.3 | 3797.8 | 1398.2 | 874.7 | 791.0 | 770.0 | 747.9 | 727.0 | 699.1 | 670.0 |
| 6264.9 | 35° | 5380.9 | 3986.3 | 1337.7 | 851.5 | 766.5 | 738.6 | 714.2 | 690.9 | 670.0 | 644.4 |
| 6919.8 | 37.5° | 5873.0 | 4186.3 | 1319.1 | 839.8 | 750.3 | 707.2 | 679.3 | 663.0 | 660.7 | 645.6 |
| 7628.2 | 40° | 6411.5 | 4423.6 | 1333.0 | 832.8 | 732.8 | 677.0 | 646.7 | 643.2 | 649.1 | 622.3 |
| 8385.4 | 42.5° | 6981.5 | 4705.1 | 1356.3 | 824.7 | 708.4 | 646.7 | 617.7 | 617.7 | 613.0 | 575.8 |
| 9185.7 | 45° | 7598.0 | 5029.6 | 1379.5 | 804.9 | 679.3 | 616.5 | 594.4 | 586.2 | 566.5 | 530.4 |
| 9990.6 | 47.5° | 8219.1 | 5360.0 | 1397.0 | 768.9 | 644.4 | 590.9 | 571.1 | 552.5 | 523.4 | 490.9 |
| 10780.5 | 50° | 8808.8 | 5656.6 | 1378.4 | 715.4 | 604.9 | 566.5 | 545.5 | 519.9 | 488.5 | 466.4 |
| 11528.4 | 52.5° | 9335.8 | 5913.7 | 1299.3 | 652.6 | 563.0 | 540.9 | 522.3 | 495.5 | 469.9 | 446.7 |
| 12203.0 | 55° | 9794.1 | 6121.9 | 1159.7 | 593.2 | 525.8 | 518.8 | 500.2 | 466.4 | 431.5 | 411.8 |
| 12871.9 | 57.5° | 10233.8 | 6280.1 | 985.2 | 544.4 | 492.0 | 494.4 | 466.4 | 436.2 | 403.6 | 382.7 |
| 13773.3 | 60° | 10818.8 | 6491.8 | 808.4 | 499.0 | 456.0 | 463.0 | 432.7 | 410.6 | 369.9 | 343.1 |
| 15319.2 | 62.5° | 11754.0 | 6821.0 | 642.1 | 443.2 | 414.1 | 416.4 | 403.6 | 376.9 | 328.0 | 296.6 |
| 16465.0 | 65° | 12496.2 | 6700.0 | 506.0 | 382.7 | 366.4 | 369.9 | 369.9 | 340.8 | 288.5 | 252.4 |
| 16526.6 | 67.5° | 12412.4 | 5736.9 | 403.6 | 323.4 | 321.0 | 323.4 | 331.5 | 307.1 | 255.9 | 226.8 |
| 15268.0 | 70° | 11434.2 | 4563.2 | 323.4 | 268.7 | 279.2 | 273.3 | 296.6 | 280.3 | 230.3 | 201.2 |
| 11836.6 | 72.5° | 9330.0 | 3287.2 | 246.6 | 222.2 | 214.0 | 223.3 | 267.5 | 252.4 | 191.9 | 159.4 |
| 6269.6 | 75° | 5451.9 | 1754.1 | 183.8 | 175.6 | 154.7 | 186.1 | 237.3 | 215.2 | 146.6 | 117.5 |
| 1921.6 | 77.5° | 1775.0 | 611.8 | 134.9 | 129.1 | 115.2 | 150.1 | 202.4 | 181.5 | 119.8 | 93.1 |
| 563.0 | 80° | 475.7 | 184.9 | 91.9 | 84.9 | 74.4 | 111.7 | 160.5 | 144.2 | 86.1 | 60.5 |
| 241.9 | 82.5° | 190.8 | 77.9 | 53.5 | 47.7 | 40.7 | 76.8 | 126.8 | 116.3 | 64.0 | 38.4 |
| 75.6 | 85° | 61.6 | 25.6 | 19.8 | 15.1 | 18.6 | 47.7 | 75.6 | 79.1 | 45.4 | 19.8 |
| 11.6 | 87.5° | 8.1 | 3.5 | 3.5 | 4.7 | 3.5 | 8.1 | 23.3 | 22.1 | 12.8 | 2.3 |
| 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> |
|-------------|
| 2676.5 |
| 2360.1 |
| 1910.0 |
| 1477.3 |
| 1206.2 |
| 1107.4 |
| 1073.6 |
| 1035.2 |
| 981.7 |
| 913.1 |
| 838.7 |
| 766.5 |
| 709.5 |
| 671.2 |
| 642.1 |
| 644.4 |
| 623.5 |
| 575.8 |
| 529.3 |
| 489.7 |
| 463.0 |
| 444.3 |
| 409.4 |
| 380.4 |
| 339.7 |
| 294.3 |
| 248.9 |
| 222.2 |
| 197.7 |
| 155.9 |
| 114.0 |
| 89.6 |
| 59.3 |
| 38.4 |
| 15.1 |
| 0.0 |
| 0.0 |

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