

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: P953560

Luminaire Tested: **GALN-SB7A-827-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953560
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB7A-827-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21200 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

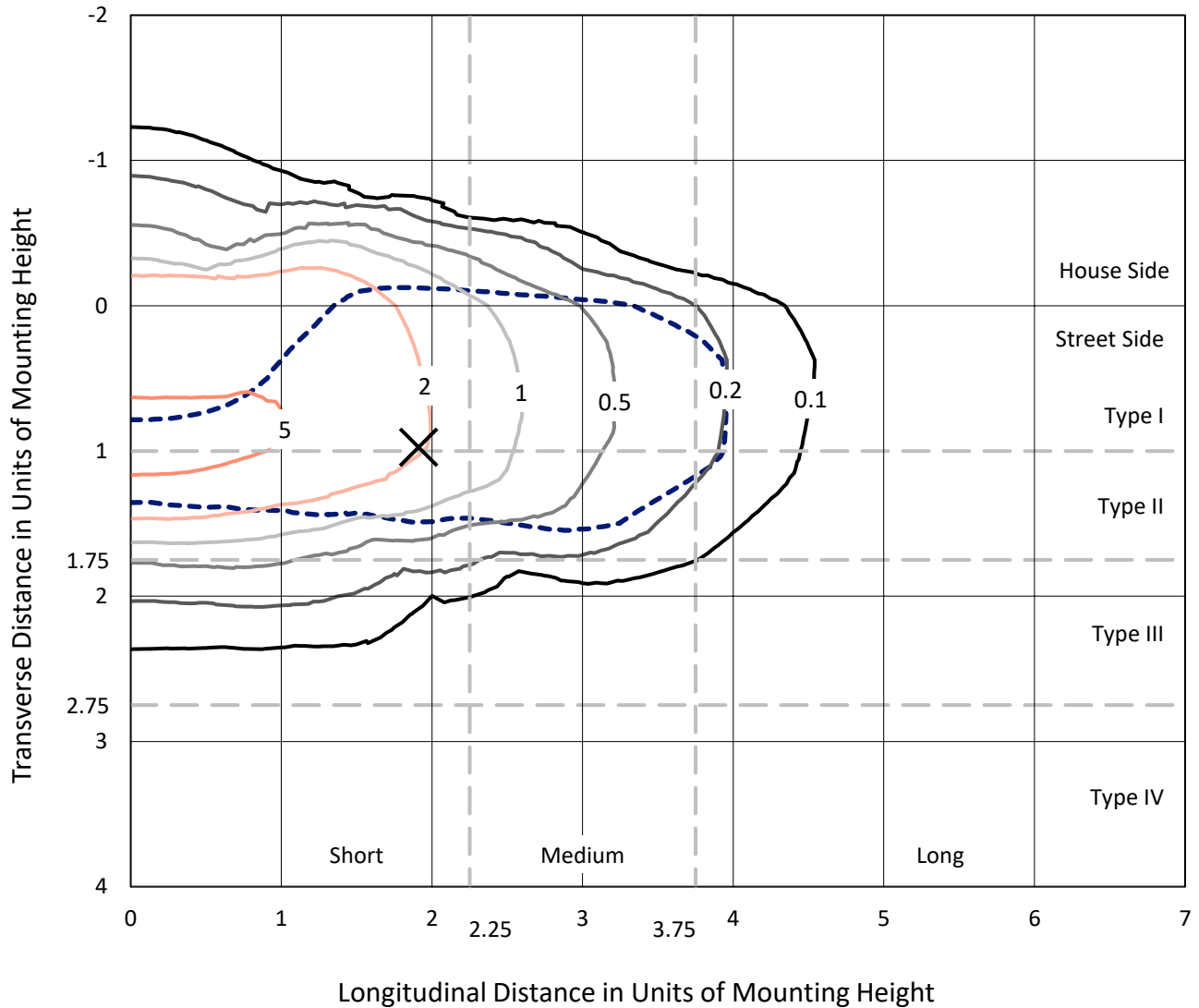
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

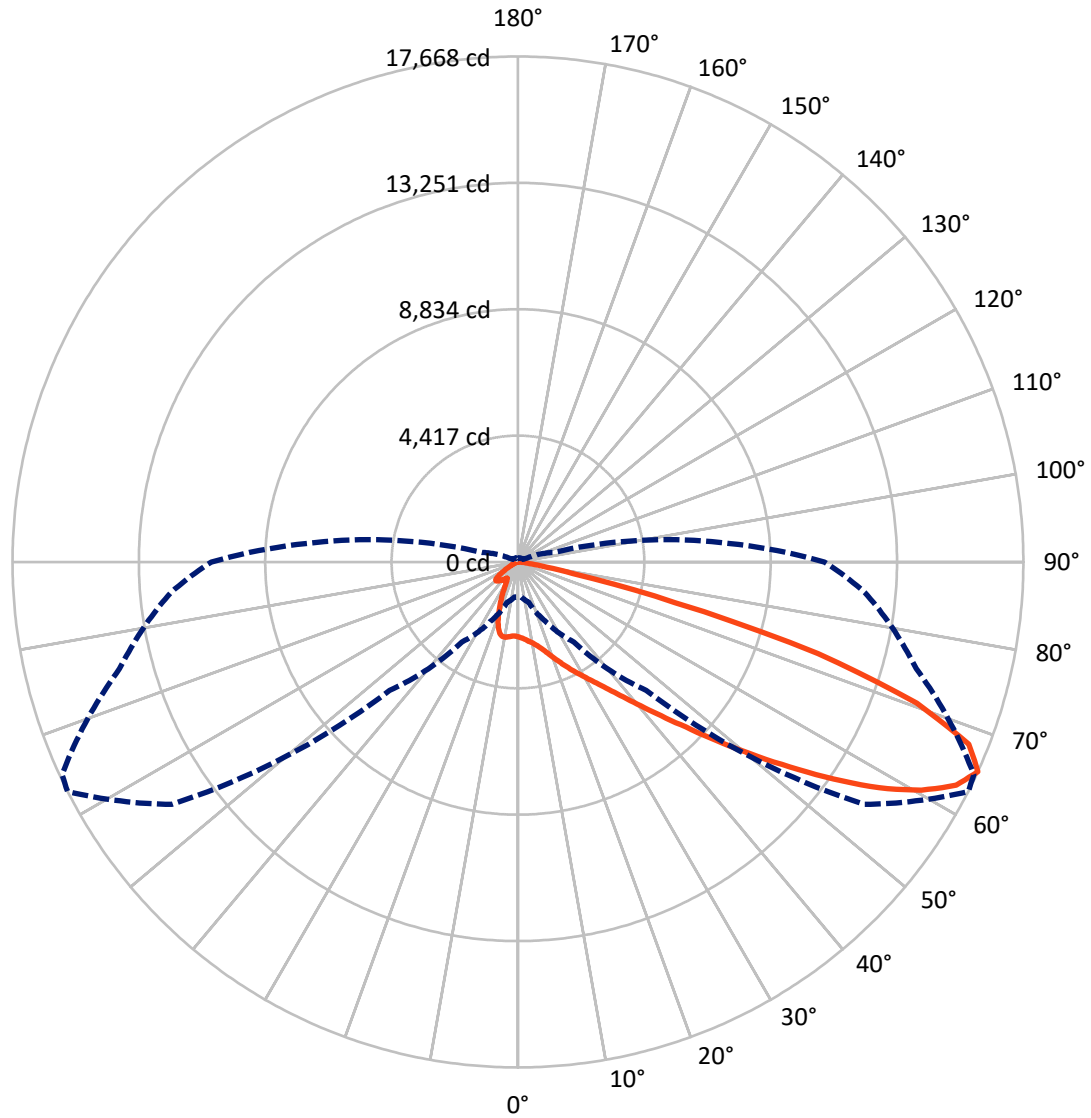
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3116.2 | 0.0 | 3116.2 |
| | % Fixture | 14.7 | 0.0 | 14.7 |
| Street Side | Lumens | 18083.8 | 0.0 | 18083.8 |
| | % Fixture | 85.3 | 0.0 | 85.3 |
| Total | Lumens | 21200.0 | 0.0 | 21200.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 246.5 | 1.2 |
| 10°-20° | 684.0 | 3.2 |
| 20°-30° | 1191.0 | 5.6 |
| 30°-40° | 2146.7 | 10.1 |
| 40°-50° | 4257.6 | 20.1 |
| 50°-60° | 5799.6 | 27.4 |
| 60°-70° | 4629.2 | 21.8 |
| 70°-80° | 2094.8 | 9.9 |
| 80°-90° | 150.6 | 0.7 |
| 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° | 21200.0 | 100.0 |
| 0°-180° | 21200.0 | 100.0 |

Coefficient of Utilization



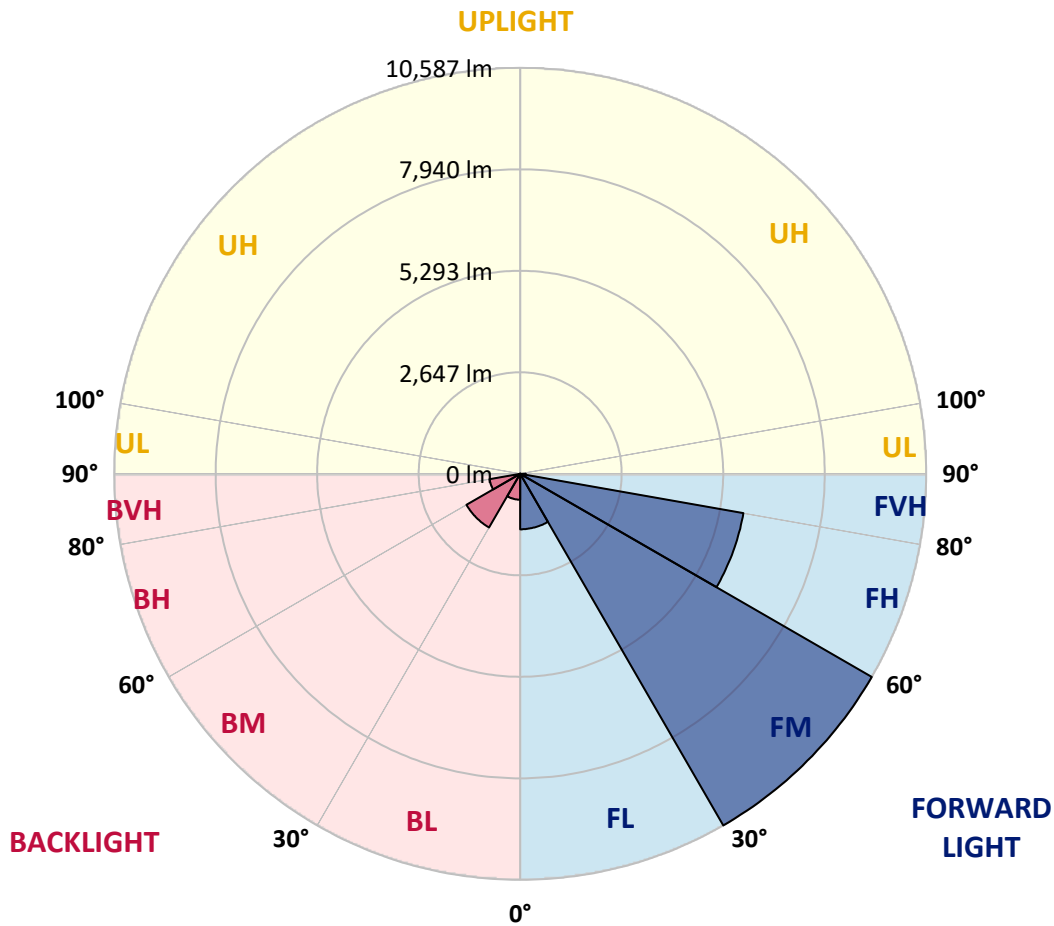
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1447.2 | 6.8 | | | |
| FM (30°-60°) | 10586.7 | 49.9 | | | |
| FH (60°-80°) | 5910.5 | 27.9 | | | G3/7500 |
| FVH (80°-90°) | 139.4 | 0.7 | | | G2/225 |
| BL (0°-30°) | 674.4 | 3.2 | B2/1000 | | |
| BM (30°-60°) | 1617.1 | 7.6 | B2/2500 | | |
| BH (60°-80°) | 813.5 | 3.8 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 11.2 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 63° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2616.5 | 2616.5 | 2616.5 | 2616.5 | 2616.5 | 2616.5 | 2616.5 | 2616.5 | 2616.5 | 2616.5 |
| 2.5° | 2677.7 | 2670.4 | 2680.7 | 2676.3 | 2673.4 | 2667.5 | 2664.6 | 2661.7 | 2655.9 | 2651.5 |
| 5° | 2685.0 | 2680.7 | 2690.9 | 2699.6 | 2708.4 | 2717.1 | 2721.5 | 2727.3 | 2721.5 | 2709.8 |
| 7.5° | 2623.8 | 2620.9 | 2642.7 | 2669.0 | 2708.4 | 2741.9 | 2778.4 | 2798.8 | 2800.2 | 2795.9 |
| 10° | 2619.4 | 2612.1 | 2634.0 | 2666.1 | 2717.1 | 2776.9 | 2841.1 | 2884.8 | 2890.7 | 2909.6 |
| 12.5° | 2687.9 | 2680.7 | 2711.3 | 2746.3 | 2798.8 | 2861.5 | 2940.3 | 3001.5 | 3010.3 | 3036.5 |
| 15° | 2803.2 | 2793.0 | 2828.0 | 2873.2 | 2940.3 | 3011.7 | 3094.9 | 3150.3 | 3157.6 | 3189.7 |
| 17.5° | 2937.3 | 2927.1 | 2968.0 | 3016.1 | 3089.0 | 3186.7 | 3283.0 | 3344.3 | 3353.0 | 3373.4 |
| 20° | 3109.4 | 3096.3 | 3128.4 | 3172.2 | 3249.5 | 3366.1 | 3481.3 | 3568.9 | 3567.4 | 3567.4 |
| 22.5° | 3309.2 | 3288.8 | 3316.5 | 3351.5 | 3424.5 | 3565.9 | 3719.1 | 3822.6 | 3822.6 | 3781.8 |
| 25° | 3523.6 | 3503.2 | 3533.9 | 3565.9 | 3630.1 | 3790.5 | 3969.9 | 4098.3 | 4104.1 | 4034.1 |
| 27.5° | 3792.0 | 3765.7 | 3789.1 | 3827.0 | 3864.9 | 4028.3 | 4241.2 | 4390.0 | 4392.9 | 4285.0 |
| 30° | 4308.3 | 4233.9 | 4161.0 | 4120.2 | 4137.7 | 4299.5 | 4527.1 | 4691.9 | 4706.5 | 4557.7 |
| 32.5° | 5253.4 | 5238.8 | 4982.1 | 4646.7 | 4471.6 | 4591.2 | 4846.5 | 5044.8 | 5053.6 | 4862.5 |
| 35° | 6722.1 | 6704.5 | 6291.8 | 5653.0 | 5082.7 | 4982.1 | 5234.4 | 5469.2 | 5463.4 | 5247.5 |
| 37.5° | 8475.1 | 8459.1 | 7915.1 | 7060.4 | 6137.2 | 5572.8 | 5734.7 | 5981.2 | 6017.6 | 5734.7 |
| 40° | 9973.0 | 9913.2 | 9569.0 | 8744.9 | 7537.3 | 6552.9 | 6446.4 | 6609.7 | 6647.7 | 6312.2 |
| 42.5° | 11107.6 | 11056.6 | 10881.6 | 10366.7 | 9232.1 | 8002.6 | 7285.0 | 7347.7 | 7390.0 | 6987.5 |
| 45° | 11695.4 | 11683.7 | 11753.7 | 11705.6 | 10958.9 | 9781.9 | 8483.9 | 8222.8 | 8238.9 | 7735.7 |
| 47.5° | 11778.5 | 11772.7 | 12092.1 | 12544.2 | 12443.6 | 11788.7 | 10022.5 | 9313.7 | 9256.9 | 8580.1 |
| 50° | 11288.5 | 11276.8 | 11889.4 | 12736.7 | 13435.4 | 13474.7 | 11769.8 | 10543.2 | 10417.8 | 9453.7 |
| 52.5° | 9723.6 | 9720.6 | 10727.0 | 12137.3 | 13783.9 | 14950.7 | 13496.6 | 11893.8 | 11683.7 | 10378.4 |
| 55° | 7481.9 | 7535.9 | 8689.5 | 10356.5 | 13148.0 | 15661.0 | 15047.0 | 13393.1 | 13070.7 | 11308.9 |
| 57.5° | 5300.1 | 5378.8 | 6519.3 | 8004.0 | 11176.2 | 15240.9 | 16095.6 | 14895.3 | 14548.2 | 12236.5 |
| 60° | 2846.9 | 2916.9 | 4058.9 | 5830.9 | 8314.7 | 13674.5 | 16648.3 | 16199.1 | 15871.0 | 13117.4 |
| 62.5° | 1696.2 | 1719.5 | 2192.1 | 3764.3 | 5623.8 | 10447.0 | 16413.5 | 17192.3 | 16922.5 | 13856.8 |
| 65° | 1217.8 | 1222.2 | 1459.9 | 2298.5 | 3414.3 | 6347.2 | 14766.9 | 17667.8 | 17584.7 | 14414.0 |
| 67.5° | 1025.3 | 1022.4 | 1121.6 | 1527.0 | 2326.2 | 3179.4 | 11317.7 | 16995.5 | 17348.4 | 14766.9 |
| 70° | 879.5 | 883.8 | 1000.5 | 1118.6 | 1748.7 | 1799.7 | 5626.7 | 14797.6 | 15550.1 | 14860.3 |
| 72.5° | 654.8 | 669.4 | 777.4 | 1019.5 | 1319.9 | 1238.2 | 1942.7 | 10972.0 | 12332.8 | 14001.2 |
| 75° | 462.3 | 469.6 | 546.9 | 857.6 | 984.5 | 901.3 | 991.8 | 5672.0 | 7416.3 | 10734.3 |
| 77.5° | 355.9 | 369.0 | 414.2 | 599.4 | 969.9 | 633.0 | 606.7 | 1963.1 | 3016.1 | 6484.3 |
| 80° | 192.5 | 215.9 | 299.0 | 433.2 | 681.1 | 447.7 | 300.4 | 781.7 | 1022.4 | 3032.1 |
| 82.5° | 99.2 | 110.8 | 208.6 | 312.1 | 388.0 | 390.9 | 148.8 | 325.2 | 421.5 | 936.3 |
| 85° | 39.4 | 48.1 | 140.0 | 172.1 | 199.8 | 192.5 | 67.1 | 131.3 | 151.7 | 259.6 |
| 87.5° | 8.8 | 14.6 | 51.0 | 39.4 | 37.9 | 40.8 | 16.0 | 30.6 | 29.2 | 30.6 |
| 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° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2616.5 | 0° | 2616.5 | 2616.5 | 2616.5 | 2616.5 | 2616.5 | 2616.5 | 2616.5 | 2616.5 | 2616.5 | 2616.5 |
| 2634.0 | 2.5° | 2632.5 | 2626.7 | 2610.6 | 2593.1 | 2572.7 | 2561.1 | 2553.8 | 2552.3 | 2542.1 | 2534.8 |
| 2692.3 | 5° | 2676.3 | 2670.4 | 2639.8 | 2603.4 | 2564.0 | 2533.3 | 2504.2 | 2477.9 | 2440.0 | 2432.7 |
| 2776.9 | 7.5° | 2763.8 | 2747.7 | 2698.2 | 2648.6 | 2574.2 | 2485.2 | 2377.3 | 2253.3 | 2142.5 | 2108.9 |
| 2889.2 | 10° | 2871.7 | 2849.8 | 2787.1 | 2699.6 | 2534.8 | 2292.7 | 2031.6 | 1789.5 | 1597.0 | 1543.1 |
| 3021.9 | 12.5° | 2994.2 | 2975.3 | 2892.1 | 2730.2 | 2370.0 | 1931.0 | 1531.4 | 1230.9 | 1044.3 | 997.6 |
| 3163.4 | 15° | 3140.1 | 3112.4 | 2997.1 | 2683.6 | 2075.4 | 1467.2 | 1051.6 | 873.6 | 806.5 | 797.8 |
| 3325.3 | 17.5° | 3294.7 | 3249.5 | 3090.5 | 2515.8 | 1678.7 | 1042.8 | 812.4 | 761.3 | 732.1 | 723.4 |
| 3488.6 | 20° | 3436.1 | 3377.8 | 3145.9 | 2262.1 | 1254.3 | 812.4 | 727.8 | 694.2 | 668.0 | 657.8 |
| 3652.0 | 22.5° | 3577.6 | 3494.5 | 3145.9 | 1916.4 | 940.7 | 720.5 | 668.0 | 637.3 | 606.7 | 593.6 |
| 3827.0 | 25° | 3724.9 | 3614.1 | 3090.5 | 1531.4 | 756.9 | 660.7 | 611.1 | 577.6 | 551.3 | 535.3 |
| 3993.3 | 27.5° | 3867.8 | 3714.7 | 2963.6 | 1166.8 | 673.8 | 608.2 | 558.6 | 526.5 | 501.7 | 490.0 |
| 4174.1 | 30° | 4003.5 | 3813.9 | 2785.7 | 885.3 | 619.8 | 557.1 | 510.5 | 482.8 | 458.0 | 446.3 |
| 4408.9 | 32.5° | 4187.2 | 3939.3 | 2596.1 | 726.3 | 573.2 | 509.0 | 466.7 | 440.5 | 418.6 | 409.8 |
| 4713.7 | 35° | 4442.5 | 4124.5 | 2432.7 | 713.2 | 533.8 | 469.6 | 427.3 | 402.5 | 380.7 | 373.4 |
| 5107.5 | 37.5° | 4804.2 | 4423.5 | 2346.7 | 800.7 | 501.7 | 434.6 | 395.2 | 369.0 | 348.6 | 342.7 |
| 5607.8 | 40° | 5250.5 | 4829.0 | 2393.3 | 888.2 | 479.8 | 404.0 | 366.1 | 339.8 | 322.3 | 315.0 |
| 6182.4 | 42.5° | 5779.9 | 5329.2 | 2651.5 | 955.3 | 465.2 | 377.7 | 338.4 | 309.2 | 297.5 | 294.6 |
| 6834.4 | 45° | 6388.1 | 5879.1 | 3046.7 | 1026.8 | 441.9 | 352.9 | 310.7 | 288.8 | 280.0 | 278.6 |
| 7543.2 | 47.5° | 7079.4 | 6482.9 | 3504.7 | 1115.7 | 418.6 | 329.6 | 288.8 | 274.2 | 266.9 | 264.0 |
| 8282.6 | 50° | 7764.9 | 7091.0 | 3975.8 | 1165.3 | 399.6 | 307.7 | 271.3 | 259.6 | 253.8 | 252.3 |
| 9064.3 | 52.5° | 8482.4 | 7716.7 | 4356.4 | 1118.6 | 383.6 | 290.2 | 256.7 | 247.9 | 242.1 | 240.6 |
| 9784.8 | 55° | 9166.4 | 8222.8 | 4422.1 | 949.5 | 351.5 | 272.7 | 240.6 | 236.3 | 229.0 | 229.0 |
| 10515.5 | 57.5° | 9755.7 | 8476.6 | 3958.3 | 697.1 | 319.4 | 246.5 | 224.6 | 220.2 | 214.4 | 212.9 |
| 11174.7 | 60° | 10296.7 | 8403.7 | 3055.5 | 469.6 | 284.4 | 220.2 | 204.2 | 201.3 | 195.4 | 188.1 |
| 11747.9 | 62.5° | 10601.6 | 8082.8 | 2090.0 | 306.3 | 249.4 | 192.5 | 180.8 | 179.4 | 166.3 | 151.7 |
| 12172.3 | 65° | 10716.8 | 7423.6 | 1303.9 | 223.1 | 208.6 | 164.8 | 156.1 | 153.1 | 134.2 | 118.1 |
| 12413.0 | 67.5° | 10616.1 | 6338.5 | 657.8 | 176.5 | 164.8 | 137.1 | 128.3 | 128.3 | 115.2 | 100.6 |
| 12398.4 | 70° | 10213.6 | 4751.7 | 277.1 | 141.5 | 126.9 | 105.0 | 105.0 | 110.8 | 97.7 | 81.7 |
| 11755.2 | 72.5° | 9340.0 | 3196.9 | 147.3 | 107.9 | 94.8 | 74.4 | 86.0 | 90.4 | 77.3 | 61.3 |
| 9621.5 | 75° | 7425.0 | 1950.0 | 102.1 | 80.2 | 59.8 | 52.5 | 65.6 | 68.5 | 52.5 | 40.8 |
| 6596.6 | 77.5° | 5078.4 | 1120.1 | 68.5 | 51.0 | 37.9 | 30.6 | 45.2 | 42.3 | 27.7 | 19.0 |
| 2543.6 | 80° | 2230.0 | 466.7 | 39.4 | 23.3 | 14.6 | 11.7 | 16.0 | 11.7 | 8.8 | 5.8 |
| 348.6 | 82.5° | 261.1 | 109.4 | 14.6 | 8.8 | 5.8 | 2.9 | 1.5 | 0.0 | 0.0 | 0.0 |
| 106.5 | 85° | 54.0 | 13.1 | 7.3 | 2.9 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 19.0 | 87.5° | 10.2 | 2.9 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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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|-------------|
| <u>180°</u> |
| 2616.5 |
| 2542.1 |
| 2429.8 |
| 2092.9 |
| 1522.6 |
| 984.5 |
| 789.0 |
| 719.0 |
| 651.9 |
| 586.3 |
| 529.4 |
| 490.0 |
| 447.7 |
| 409.8 |
| 373.4 |
| 341.3 |
| 313.6 |
| 294.6 |
| 277.1 |
| 264.0 |
| 252.3 |
| 240.6 |
| 227.5 |
| 211.5 |
| 186.7 |
| 148.8 |
| 116.7 |
| 99.2 |
| 80.2 |
| 61.3 |
| 39.4 |
| 20.4 |
| 5.8 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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