

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: P953602

Luminaire Tested: **GALN-SB7A-835-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953602
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-835-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3500K, 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: 22614 lumens
Efficiency: N/A
Efficacy: 113.6 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

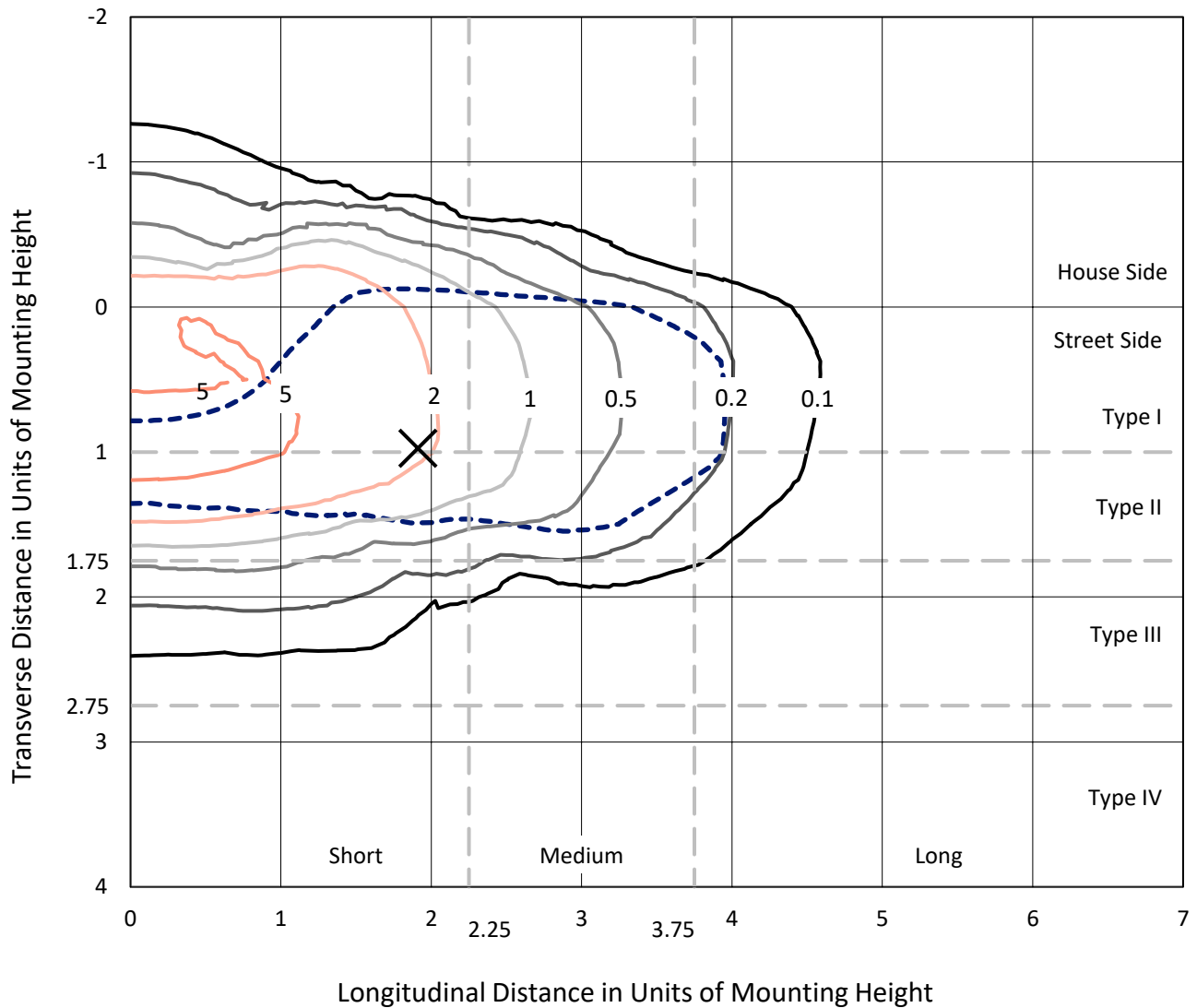
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

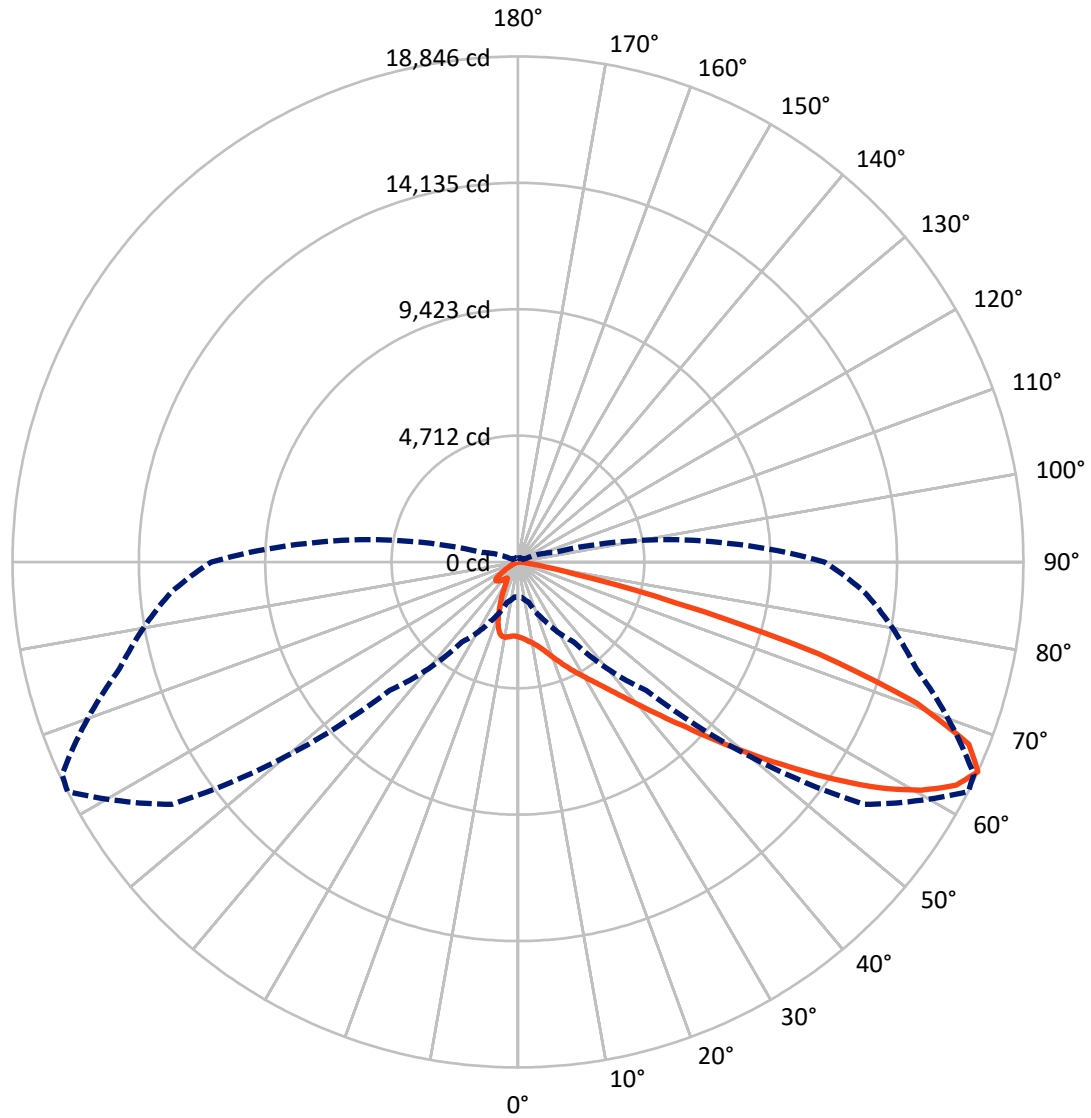
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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 | 3324.1 | 0.0 | 3324.1 |
| | % Fixture | 14.7 | 0.0 | 14.7 |
| Street Side | Lumens | 19289.9 | 0.0 | 19289.9 |
| | % Fixture | 85.3 | 0.0 | 85.3 |
| Total | Lumens | 22614.0 | 0.0 | 22614.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 263.0 | 1.2 |
| 10°-20° | 729.6 | 3.2 |
| 20°-30° | 1270.5 | 5.6 |
| 30°-40° | 2289.9 | 10.1 |
| 40°-50° | 4541.6 | 20.1 |
| 50°-60° | 6186.4 | 27.4 |
| 60°-70° | 4937.9 | 21.8 |
| 70°-80° | 2234.5 | 9.9 |
| 80°-90° | 160.6 | 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° | 22614.0 | 100.0 |
| 0°-180° | 22614.0 | 100.0 |



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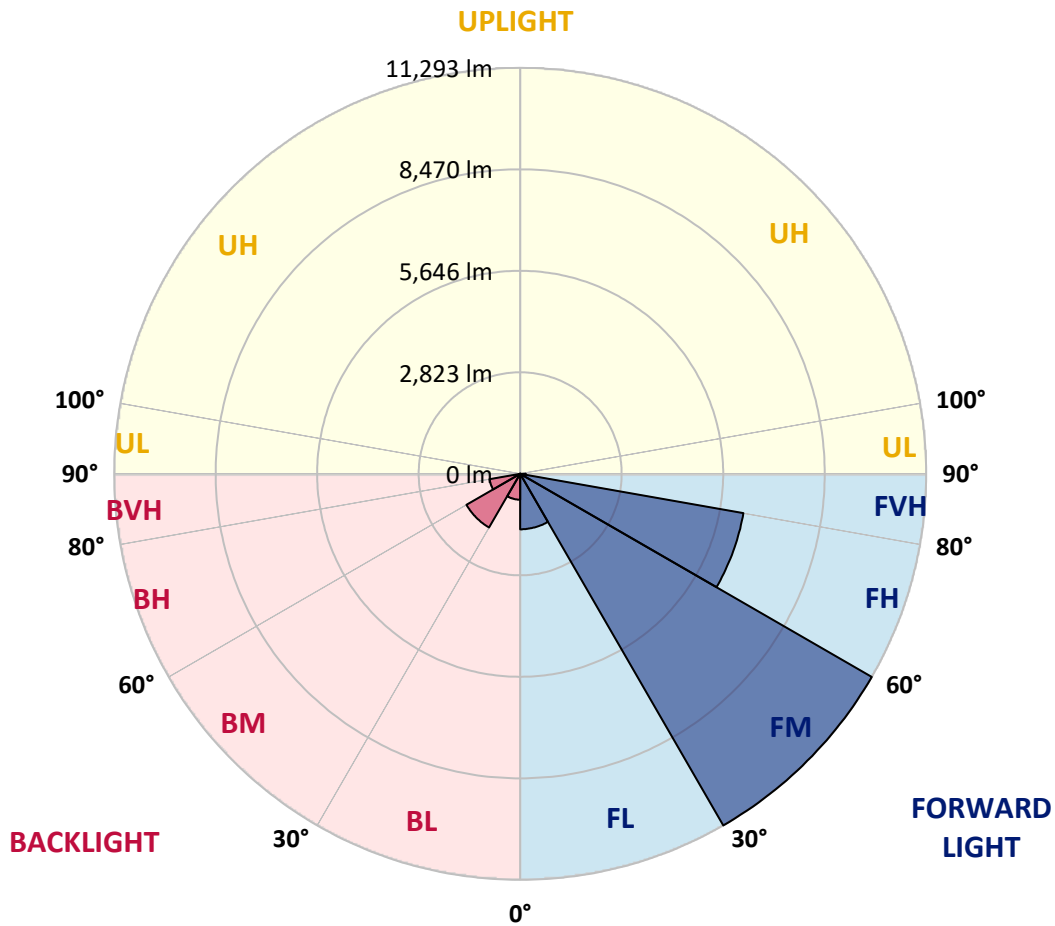
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1543.7 | 6.8 | | | |
| FM (30°-60°) | 11292.9 | 49.9 | | | |
| FH (60°-80°) | 6304.7 | 27.9 | | | G3/7500 |
| FVH (80°-90°) | 148.7 | 0.7 | | | G2/225 |
| BL (0°-30°) | 719.4 | 3.2 | B2/1000 | | |
| BM (30°-60°) | 1725.0 | 7.6 | B2/2500 | | |
| BH (60°-80°) | 867.8 | 3.8 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 11.9 | 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° | 2791.0 | 2791.0 | 2791.0 | 2791.0 | 2791.0 | 2791.0 | 2791.0 | 2791.0 | 2791.0 | 2791.0 |
| 2.5° | 2856.3 | 2848.6 | 2859.4 | 2854.8 | 2851.7 | 2845.4 | 2842.3 | 2839.2 | 2833.0 | 2828.3 |
| 5° | 2864.1 | 2859.4 | 2870.3 | 2879.7 | 2889.0 | 2898.3 | 2903.0 | 2909.2 | 2903.0 | 2890.6 |
| 7.5° | 2798.8 | 2795.7 | 2819.0 | 2847.0 | 2889.0 | 2924.8 | 2963.7 | 2985.5 | 2987.0 | 2982.4 |
| 10° | 2794.1 | 2786.3 | 2809.7 | 2843.9 | 2898.3 | 2962.1 | 3030.6 | 3077.3 | 3083.5 | 3103.7 |
| 12.5° | 2867.2 | 2859.4 | 2892.1 | 2929.5 | 2985.5 | 3052.4 | 3136.4 | 3201.7 | 3211.0 | 3239.0 |
| 15° | 2990.1 | 2979.2 | 3016.6 | 3064.8 | 3136.4 | 3212.6 | 3301.3 | 3360.4 | 3368.2 | 3402.4 |
| 17.5° | 3133.3 | 3122.4 | 3165.9 | 3217.3 | 3295.1 | 3399.3 | 3502.0 | 3567.3 | 3576.6 | 3598.4 |
| 20° | 3316.8 | 3302.8 | 3337.1 | 3383.7 | 3466.2 | 3590.6 | 3713.5 | 3806.9 | 3805.3 | 3805.3 |
| 22.5° | 3530.0 | 3508.2 | 3537.7 | 3575.1 | 3652.9 | 3803.8 | 3967.1 | 4077.6 | 4077.6 | 4034.0 |
| 25° | 3758.7 | 3736.9 | 3769.6 | 3803.8 | 3872.2 | 4043.4 | 4234.7 | 4371.6 | 4377.8 | 4303.2 |
| 27.5° | 4044.9 | 4016.9 | 4041.8 | 4082.3 | 4122.7 | 4296.9 | 4524.1 | 4682.8 | 4685.9 | 4570.8 |
| 30° | 4595.7 | 4516.3 | 4438.5 | 4395.0 | 4413.6 | 4586.3 | 4829.0 | 5004.8 | 5020.4 | 4861.7 |
| 32.5° | 5603.8 | 5588.2 | 5314.4 | 4956.6 | 4769.9 | 4897.5 | 5169.7 | 5381.3 | 5390.6 | 5186.8 |
| 35° | 7170.4 | 7151.7 | 6711.5 | 6030.0 | 5421.7 | 5314.4 | 5583.5 | 5834.0 | 5827.8 | 5597.5 |
| 37.5° | 9040.4 | 9023.3 | 8443.0 | 7531.3 | 6546.5 | 5944.5 | 6117.2 | 6380.1 | 6419.0 | 6117.2 |
| 40° | 10638.1 | 10574.4 | 10207.2 | 9328.2 | 8040.1 | 6989.9 | 6876.4 | 7050.6 | 7091.1 | 6733.2 |
| 42.5° | 11848.5 | 11794.1 | 11607.4 | 11058.2 | 9847.8 | 8536.3 | 7770.9 | 7837.8 | 7882.9 | 7453.5 |
| 45° | 12475.5 | 12463.0 | 12537.7 | 12486.4 | 11689.8 | 10434.3 | 9049.7 | 8771.3 | 8788.4 | 8251.6 |
| 47.5° | 12564.1 | 12557.9 | 12898.6 | 13380.9 | 13273.6 | 12575.0 | 10691.0 | 9934.9 | 9874.3 | 9152.4 |
| 50° | 12041.4 | 12029.0 | 12682.4 | 13586.3 | 14331.5 | 14373.5 | 12554.8 | 11246.4 | 11112.6 | 10084.3 |
| 52.5° | 10372.1 | 10369.0 | 11442.5 | 12946.9 | 14703.3 | 15947.9 | 14396.8 | 12687.0 | 12463.0 | 11070.6 |
| 55° | 7980.9 | 8038.5 | 9269.1 | 11047.3 | 14025.0 | 16705.5 | 16050.6 | 14286.3 | 13942.5 | 12063.2 |
| 57.5° | 5653.6 | 5737.6 | 6954.2 | 8537.9 | 11921.6 | 16257.5 | 17169.1 | 15888.8 | 15518.5 | 13052.6 |
| 60° | 3036.8 | 3111.5 | 4329.6 | 6219.8 | 8869.3 | 14586.6 | 17758.8 | 17279.6 | 16929.5 | 13992.3 |
| 62.5° | 1809.3 | 1834.2 | 2338.3 | 4015.4 | 5998.9 | 11143.8 | 17508.3 | 18339.0 | 18051.2 | 14781.1 |
| 65° | 1299.0 | 1303.7 | 1557.3 | 2451.8 | 3642.0 | 6770.6 | 15751.9 | 18846.2 | 18757.5 | 15375.4 |
| 67.5° | 1093.7 | 1090.6 | 1196.4 | 1628.9 | 2481.4 | 3391.5 | 12072.5 | 18129.0 | 18505.5 | 15751.9 |
| 70° | 938.1 | 942.8 | 1067.2 | 1193.3 | 1865.3 | 1919.8 | 6002.0 | 15784.5 | 16587.3 | 15851.4 |
| 72.5° | 698.5 | 714.1 | 829.2 | 1087.5 | 1407.9 | 1320.8 | 2072.2 | 11703.8 | 13155.3 | 14935.1 |
| 75° | 493.2 | 500.9 | 583.4 | 914.8 | 1050.1 | 961.4 | 1057.9 | 6050.3 | 7910.9 | 11450.2 |
| 77.5° | 379.6 | 393.6 | 441.8 | 639.4 | 1034.6 | 675.2 | 647.2 | 2094.0 | 3217.3 | 6916.8 |
| 80° | 205.4 | 230.2 | 318.9 | 462.1 | 726.5 | 477.6 | 320.5 | 833.9 | 1090.6 | 3234.4 |
| 82.5° | 105.8 | 118.2 | 222.5 | 332.9 | 413.8 | 416.9 | 158.7 | 346.9 | 449.6 | 998.8 |
| 85° | 42.0 | 51.3 | 149.4 | 183.6 | 213.1 | 205.4 | 71.6 | 140.0 | 161.8 | 276.9 |
| 87.5° | 9.3 | 15.6 | 54.5 | 42.0 | 40.4 | 43.6 | 17.1 | 32.7 | 31.1 | 32.7 |
| 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° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2791.0 | 0° | 2791.0 | 2791.0 | 2791.0 | 2791.0 | 2791.0 | 2791.0 | 2791.0 | 2791.0 | 2791.0 | 2791.0 |
| 2809.7 | 2.5° | 2808.1 | 2801.9 | 2784.8 | 2766.1 | 2744.3 | 2731.9 | 2724.1 | 2722.5 | 2711.7 | 2703.9 |
| 2871.9 | 5° | 2854.8 | 2848.6 | 2815.9 | 2777.0 | 2735.0 | 2702.3 | 2671.2 | 2643.2 | 2602.8 | 2595.0 |
| 2962.1 | 7.5° | 2948.1 | 2931.0 | 2878.1 | 2825.2 | 2745.9 | 2651.0 | 2535.9 | 2403.6 | 2285.4 | 2249.6 |
| 3081.9 | 10° | 3063.2 | 3039.9 | 2973.0 | 2879.7 | 2703.9 | 2445.6 | 2167.1 | 1908.9 | 1703.5 | 1646.0 |
| 3223.5 | 12.5° | 3193.9 | 3173.7 | 3085.0 | 2912.3 | 2528.1 | 2059.8 | 1633.5 | 1313.0 | 1113.9 | 1064.1 |
| 3374.4 | 15° | 3349.5 | 3319.9 | 3197.0 | 2862.6 | 2213.8 | 1565.1 | 1121.7 | 931.9 | 860.3 | 851.0 |
| 3547.1 | 17.5° | 3514.4 | 3466.2 | 3296.6 | 2683.6 | 1790.7 | 1112.4 | 866.5 | 812.1 | 781.0 | 771.6 |
| 3721.3 | 20° | 3665.3 | 3603.1 | 3355.7 | 2413.0 | 1337.9 | 866.5 | 776.3 | 740.5 | 712.5 | 701.6 |
| 3895.6 | 22.5° | 3816.2 | 3727.5 | 3355.7 | 2044.2 | 1003.5 | 768.5 | 712.5 | 679.9 | 647.2 | 633.2 |
| 4082.3 | 25° | 3973.4 | 3855.1 | 3296.6 | 1633.5 | 807.4 | 704.7 | 651.9 | 616.1 | 588.1 | 571.0 |
| 4259.6 | 27.5° | 4125.8 | 3962.5 | 3161.3 | 1244.6 | 718.8 | 648.7 | 595.8 | 561.6 | 535.2 | 522.7 |
| 4452.5 | 30° | 4270.5 | 4068.3 | 2971.5 | 944.3 | 661.2 | 594.3 | 544.5 | 514.9 | 488.5 | 476.1 |
| 4703.0 | 32.5° | 4466.5 | 4202.0 | 2769.2 | 774.8 | 611.4 | 543.0 | 497.8 | 469.8 | 446.5 | 437.2 |
| 5028.1 | 35° | 4738.8 | 4399.6 | 2595.0 | 760.8 | 569.4 | 500.9 | 455.8 | 429.4 | 406.0 | 398.3 |
| 5448.2 | 37.5° | 5124.6 | 4718.6 | 2503.2 | 854.1 | 535.2 | 463.6 | 421.6 | 393.6 | 371.8 | 365.6 |
| 5981.8 | 40° | 5600.7 | 5151.1 | 2553.0 | 947.4 | 511.8 | 430.9 | 390.5 | 362.5 | 343.8 | 336.0 |
| 6594.8 | 42.5° | 6165.4 | 5684.7 | 2828.3 | 1019.0 | 496.3 | 402.9 | 360.9 | 329.8 | 317.4 | 314.3 |
| 7290.2 | 45° | 6814.1 | 6271.2 | 3249.9 | 1095.2 | 471.4 | 376.5 | 331.4 | 308.0 | 298.7 | 297.1 |
| 8046.3 | 47.5° | 7551.6 | 6915.3 | 3738.4 | 1190.1 | 446.5 | 351.6 | 308.0 | 292.5 | 284.7 | 281.6 |
| 8835.0 | 50° | 8282.8 | 7564.0 | 4240.9 | 1243.0 | 426.3 | 328.3 | 289.4 | 276.9 | 270.7 | 269.1 |
| 9668.9 | 52.5° | 9048.2 | 8231.4 | 4647.0 | 1193.3 | 409.2 | 309.6 | 273.8 | 264.5 | 258.3 | 256.7 |
| 10437.4 | 55° | 9777.8 | 8771.3 | 4717.0 | 1012.8 | 374.9 | 290.9 | 256.7 | 252.0 | 244.3 | 244.3 |
| 11216.9 | 57.5° | 10406.3 | 9042.0 | 4222.3 | 743.6 | 340.7 | 262.9 | 239.6 | 234.9 | 228.7 | 227.1 |
| 11920.1 | 60° | 10983.5 | 8964.2 | 3259.3 | 500.9 | 303.4 | 234.9 | 217.8 | 214.7 | 208.5 | 200.7 |
| 12531.5 | 62.5° | 11308.7 | 8621.9 | 2229.4 | 326.7 | 266.0 | 205.4 | 192.9 | 191.4 | 177.4 | 161.8 |
| 12984.2 | 65° | 11431.6 | 7918.7 | 1390.8 | 238.0 | 222.5 | 175.8 | 166.5 | 163.4 | 143.1 | 126.0 |
| 13240.9 | 67.5° | 11324.2 | 6761.2 | 701.6 | 188.2 | 175.8 | 146.2 | 136.9 | 136.9 | 122.9 | 107.3 |
| 13225.3 | 70° | 10894.8 | 5068.6 | 295.6 | 150.9 | 135.3 | 112.0 | 112.0 | 118.2 | 104.2 | 87.1 |
| 12539.3 | 72.5° | 9962.9 | 3410.2 | 157.1 | 115.1 | 101.1 | 79.3 | 91.8 | 96.5 | 82.5 | 65.3 |
| 10263.2 | 75° | 7920.3 | 2080.0 | 108.9 | 85.6 | 63.8 | 56.0 | 70.0 | 73.1 | 56.0 | 43.6 |
| 7036.6 | 77.5° | 5417.1 | 1194.8 | 73.1 | 54.5 | 40.4 | 32.7 | 48.2 | 45.1 | 29.6 | 20.2 |
| 2713.2 | 80° | 2378.7 | 497.8 | 42.0 | 24.9 | 15.6 | 12.4 | 17.1 | 12.4 | 9.3 | 6.2 |
| 371.8 | 82.5° | 278.5 | 116.7 | 15.6 | 9.3 | 6.2 | 3.1 | 1.6 | 0.0 | 0.0 | 0.0 |
| 113.6 | 85° | 57.6 | 14.0 | 7.8 | 3.1 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 20.2 | 87.5° | 10.9 | 3.1 | 1.6 | 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> |
|-------------|
| 2791.0 |
| 2711.7 |
| 2591.9 |
| 2232.5 |
| 1624.2 |
| 1050.1 |
| 841.7 |
| 767.0 |
| 695.4 |
| 625.4 |
| 564.7 |
| 522.7 |
| 477.6 |
| 437.2 |
| 398.3 |
| 364.0 |
| 334.5 |
| 314.3 |
| 295.6 |
| 281.6 |
| 269.1 |
| 256.7 |
| 242.7 |
| 225.6 |
| 199.1 |
| 158.7 |
| 124.5 |
| 105.8 |
| 85.6 |
| 65.3 |
| 42.0 |
| 21.8 |
| 6.2 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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