

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: P943604

Luminaire Tested: **GALN-SB8A-930-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943604
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-SB8A-930-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 3000K, 350mA 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: 18426 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

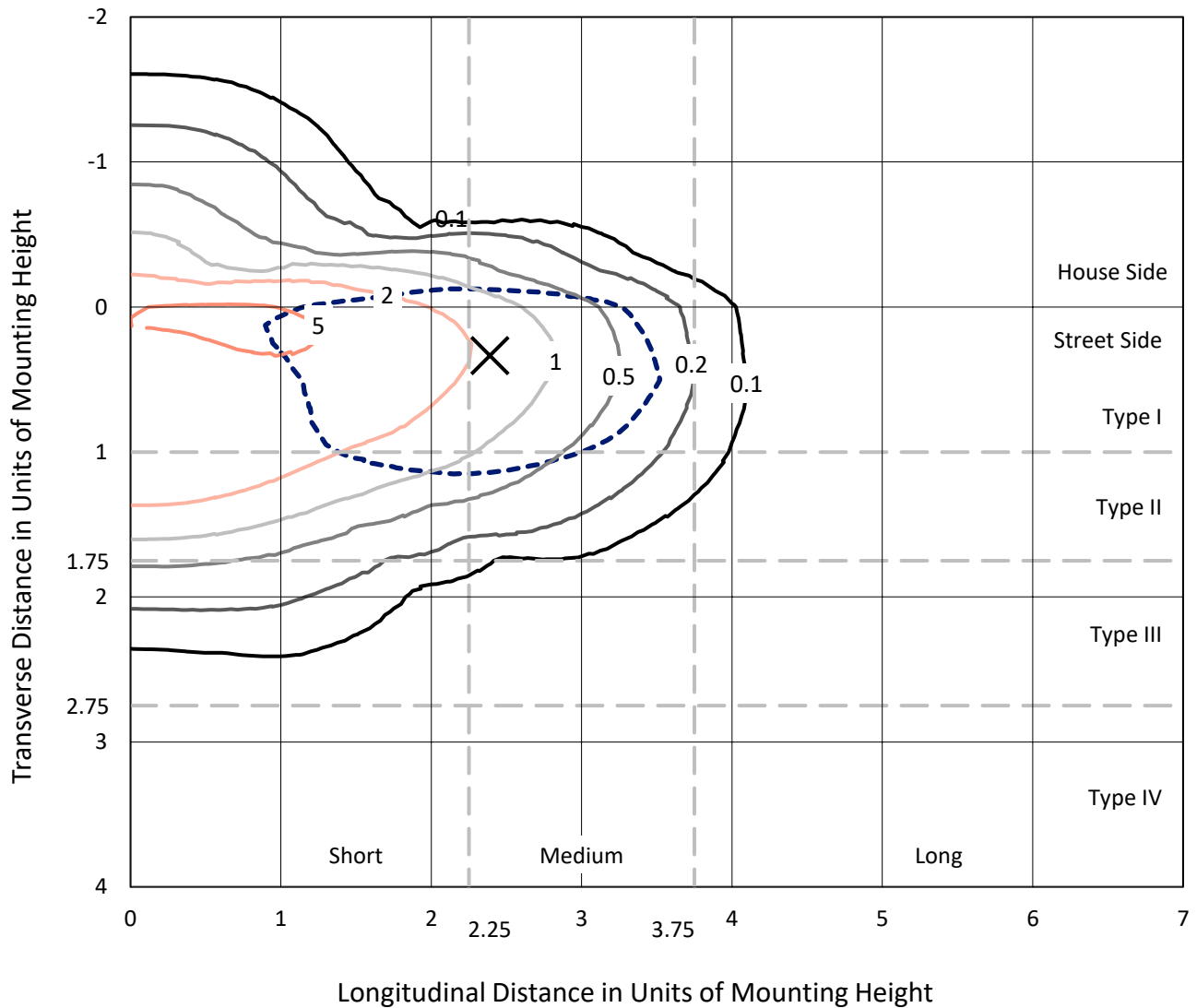
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

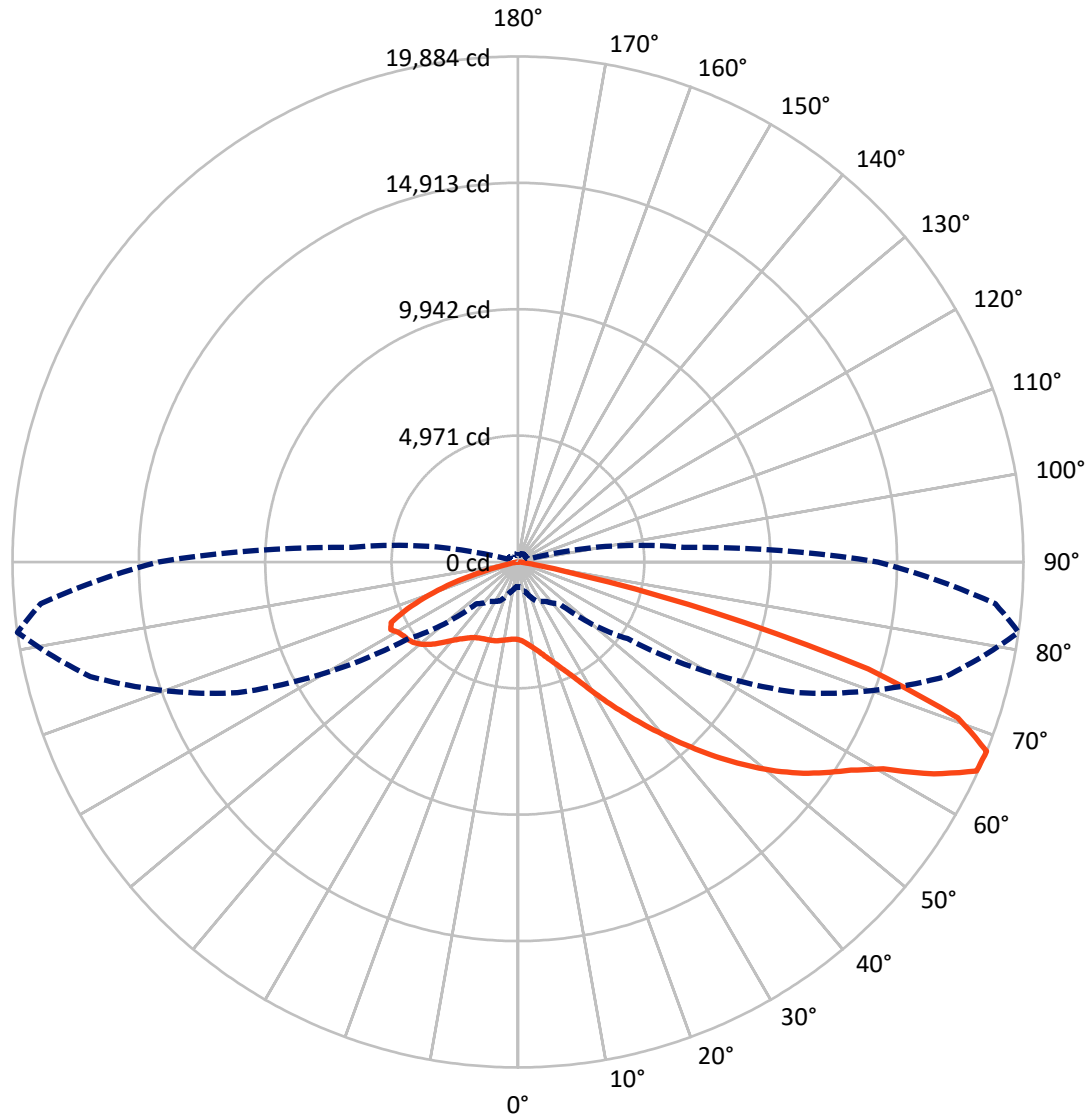
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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 | 3337.7 | 0.0 | 3337.7 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 15088.3 | 0.0 | 15088.3 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 18426.0 | 0.0 | 18426.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 272.0 | 1.5 |
| 10°-20° | 706.7 | 3.8 |
| 20°-30° | 1131.9 | 6.1 |
| 30°-40° | 2001.6 | 10.9 |
| 40°-50° | 3507.0 | 19.0 |
| 50°-60° | 4677.4 | 25.4 |
| 60°-70° | 4354.4 | 23.6 |
| 70°-80° | 1671.2 | 9.1 |
| 80°-90° | 103.8 | 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° | 18426.0 | 100.0 |
| 0°-180° | 18426.0 | 100.0 |



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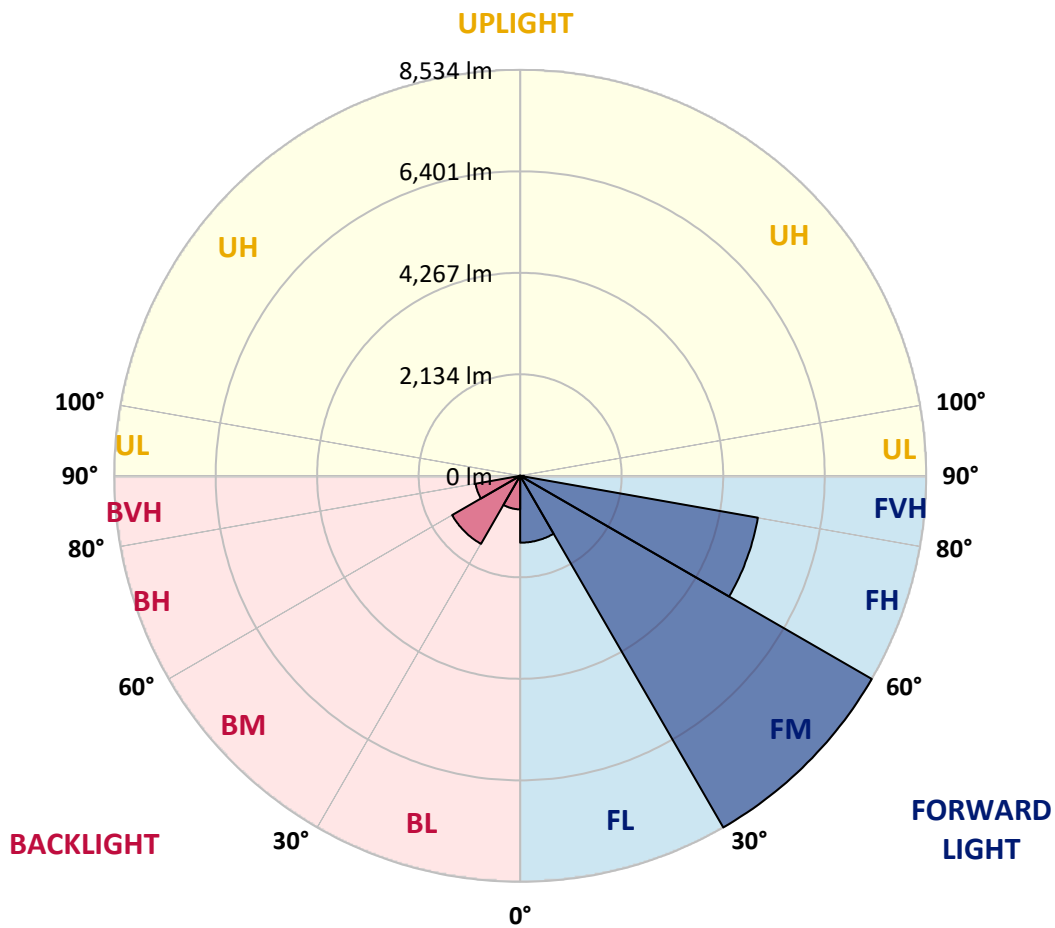
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1405.7 | 7.6 | | | |
| FM (30°-60°) | 8534.2 | 46.3 | | | |
| FH (60°-80°) | 5073.0 | 27.5 | | | G3/7500 |
| FVH (80°-90°) | 75.5 | 0.4 | | | G1/100 |
| BL (0°-30°) | 704.9 | 3.8 | B2/1000 | | |
| BM (30°-60°) | 1651.8 | 9.0 | B2/2500 | | |
| BH (60°-80°) | 952.6 | 5.2 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 28.3 | 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-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 82° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 3052.6 | 3052.6 | 3052.6 | 3052.6 | 3052.6 | 3052.6 | 3052.6 | 3052.6 | 3052.6 | 3052.6 |
| 2.5° | 3226.4 | 3244.9 | 3234.3 | 3229.0 | 3219.7 | 3206.5 | 3195.8 | 3162.7 | 3128.2 | 3105.6 |
| 5° | 3291.4 | 3309.9 | 3308.6 | 3313.9 | 3320.5 | 3324.5 | 3321.9 | 3284.7 | 3235.6 | 3197.2 |
| 7.5° | 3235.6 | 3256.9 | 3274.1 | 3300.6 | 3347.1 | 3396.2 | 3420.0 | 3412.1 | 3361.7 | 3308.6 |
| 10° | 3077.8 | 3100.3 | 3141.4 | 3203.8 | 3302.0 | 3408.1 | 3497.0 | 3538.1 | 3506.3 | 3447.9 |
| 12.5° | 2788.6 | 2811.1 | 2892.0 | 3027.4 | 3191.9 | 3376.3 | 3546.1 | 3656.2 | 3664.1 | 3605.8 |
| 15° | 2463.5 | 2486.1 | 2572.3 | 2742.1 | 2992.9 | 3288.7 | 3572.6 | 3780.9 | 3851.2 | 3800.8 |
| 17.5° | 2261.9 | 2281.8 | 2346.8 | 2483.4 | 2744.8 | 3113.6 | 3563.3 | 3913.5 | 4074.1 | 4034.3 |
| 20° | 2200.9 | 2218.1 | 2248.6 | 2344.1 | 2561.7 | 2931.8 | 3502.3 | 4038.2 | 4314.2 | 4291.6 |
| 22.5° | 2265.9 | 2281.8 | 2291.1 | 2333.5 | 2470.2 | 2812.4 | 3425.3 | 4165.6 | 4592.8 | 4595.4 |
| 25° | 2415.8 | 2431.7 | 2421.1 | 2447.6 | 2507.3 | 2775.3 | 3396.2 | 4315.5 | 4943.0 | 4972.2 |
| 27.5° | 2662.5 | 2663.9 | 2638.7 | 2637.3 | 2646.6 | 2831.0 | 3426.7 | 4476.0 | 5384.8 | 5439.2 |
| 30° | 3157.4 | 3137.5 | 3040.6 | 2935.8 | 2888.1 | 2998.2 | 3511.6 | 4665.7 | 5906.1 | 6003.0 |
| 32.5° | 3920.2 | 3891.0 | 3713.2 | 3462.5 | 3210.4 | 3267.5 | 3664.1 | 4882.0 | 6473.9 | 6649.0 |
| 35° | 4748.0 | 4740.0 | 4554.3 | 4181.5 | 3741.1 | 3650.9 | 3912.2 | 5165.9 | 7093.5 | 7372.1 |
| 37.5° | 5517.4 | 5513.5 | 5407.3 | 4968.2 | 4432.3 | 4185.5 | 4310.2 | 5537.3 | 7756.8 | 8160.1 |
| 40° | 6220.5 | 6232.5 | 6126.4 | 5733.7 | 5193.7 | 4871.4 | 4851.5 | 5996.3 | 8494.4 | 9018.4 |
| 42.5° | 6828.1 | 6841.4 | 6733.9 | 6443.4 | 5945.9 | 5630.2 | 5516.1 | 6558.8 | 9214.7 | 9940.4 |
| 45° | 7240.7 | 7323.0 | 7307.1 | 7074.9 | 6718.0 | 6390.4 | 6314.7 | 7264.6 | 10035.9 | 10918.1 |
| 47.5° | 7357.5 | 7433.1 | 7552.5 | 7584.3 | 7366.7 | 7044.4 | 7134.6 | 8115.0 | 10866.4 | 11897.2 |
| 50° | 7069.6 | 7139.9 | 7388.0 | 7718.3 | 7869.5 | 7770.0 | 7931.9 | 9026.4 | 11716.8 | 12873.6 |
| 52.5° | 6501.8 | 6573.4 | 6886.5 | 7409.2 | 8026.1 | 8339.2 | 8731.8 | 9924.5 | 12540.6 | 13798.2 |
| 55° | 5680.6 | 5756.2 | 6158.2 | 6749.9 | 7727.6 | 8574.0 | 9399.1 | 10821.3 | 13295.4 | 14630.0 |
| 57.5° | 4563.6 | 4619.3 | 5037.2 | 5865.0 | 6976.7 | 8340.5 | 9891.3 | 11800.3 | 14006.5 | 15447.2 |
| 60° | 2974.3 | 3023.4 | 3508.9 | 4432.3 | 5732.3 | 7560.4 | 9989.5 | 12892.1 | 14951.1 | 16509.9 |
| 62.5° | 1978.0 | 2011.2 | 2299.0 | 2976.9 | 4036.9 | 6062.7 | 9415.1 | 13763.7 | 16336.1 | 18359.2 |
| 65° | 1357.1 | 1390.3 | 1678.2 | 2150.5 | 2608.1 | 4010.4 | 7763.4 | 13648.3 | 17591.1 | 19827.7 |
| 67.5° | 968.4 | 996.3 | 1240.4 | 1686.1 | 1887.8 | 2329.6 | 5262.7 | 12173.1 | 17410.6 | 19883.5 |
| 70° | 693.8 | 709.7 | 911.4 | 1313.4 | 1500.4 | 1399.6 | 2926.5 | 9310.3 | 15244.3 | 18360.5 |
| 72.5° | 485.5 | 490.9 | 632.8 | 1000.3 | 1208.6 | 1021.5 | 1393.0 | 6207.3 | 11529.7 | 14411.1 |
| 75° | 329.0 | 335.6 | 425.8 | 733.6 | 969.8 | 780.1 | 737.6 | 3328.5 | 6768.4 | 7977.0 |
| 77.5° | 201.6 | 204.3 | 274.6 | 501.5 | 725.7 | 594.3 | 474.9 | 1410.2 | 2618.8 | 2571.0 |
| 80° | 114.1 | 114.1 | 175.1 | 311.8 | 494.8 | 383.4 | 333.0 | 599.6 | 829.1 | 728.3 |
| 82.5° | 63.7 | 65.0 | 127.4 | 193.7 | 327.7 | 226.9 | 183.1 | 277.3 | 358.2 | 317.1 |
| 85° | 26.5 | 29.2 | 78.3 | 91.5 | 156.5 | 112.8 | 74.3 | 116.7 | 132.7 | 118.1 |
| 87.5° | 2.7 | 4.0 | 23.9 | 17.2 | 18.6 | 22.6 | 10.6 | 22.6 | 18.6 | 18.6 |
| 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° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3052.6 | 0° | 3052.6 | 3052.6 | 3052.6 | 3052.6 | 3052.6 | 3052.6 | 3052.6 | 3052.6 | 3052.6 | 3052.6 |
| 3097.7 | 2.5° | 3072.5 | 3052.6 | 3002.2 | 2943.8 | 2866.8 | 2829.7 | 2779.3 | 2744.8 | 2715.6 | 2718.3 |
| 3174.6 | 5° | 3132.2 | 3081.8 | 2969.0 | 2828.4 | 2653.3 | 2528.5 | 2395.9 | 2304.3 | 2230.1 | 2214.1 |
| 3280.7 | 7.5° | 3214.4 | 3134.8 | 2937.1 | 2683.8 | 2387.9 | 2163.7 | 1963.4 | 1834.7 | 1743.2 | 1714.0 |
| 3409.4 | 10° | 3320.5 | 3205.1 | 2896.0 | 2502.0 | 2076.2 | 1790.9 | 1576.0 | 1475.2 | 1412.9 | 1391.6 |
| 3560.7 | 12.5° | 3443.9 | 3286.1 | 2841.6 | 2280.5 | 1755.1 | 1480.5 | 1343.9 | 1293.5 | 1273.6 | 1266.9 |
| 3746.4 | 15° | 3599.1 | 3386.9 | 2759.4 | 2017.8 | 1483.2 | 1290.8 | 1232.4 | 1225.8 | 1228.5 | 1225.8 |
| 3969.3 | 17.5° | 3783.5 | 3497.0 | 2625.4 | 1747.2 | 1300.1 | 1194.0 | 1172.7 | 1178.0 | 1184.7 | 1183.3 |
| 4218.7 | 20° | 3985.2 | 3605.8 | 2454.3 | 1507.0 | 1175.4 | 1125.0 | 1113.0 | 1118.3 | 1123.7 | 1121.0 |
| 4506.5 | 22.5° | 4214.7 | 3722.5 | 2264.5 | 1320.0 | 1091.8 | 1061.3 | 1048.0 | 1049.4 | 1049.4 | 1044.1 |
| 4871.4 | 25° | 4489.3 | 3851.2 | 2065.6 | 1187.3 | 1028.1 | 1004.3 | 988.3 | 983.0 | 975.1 | 959.2 |
| 5314.5 | 27.5° | 4817.0 | 3987.8 | 1874.5 | 1094.5 | 977.7 | 955.2 | 936.6 | 923.3 | 903.4 | 876.9 |
| 5846.4 | 30° | 5185.8 | 4153.7 | 1712.7 | 1036.1 | 937.9 | 915.4 | 894.1 | 874.2 | 845.1 | 811.9 |
| 6458.0 | 32.5° | 5619.6 | 4331.4 | 1594.6 | 997.6 | 902.1 | 878.2 | 853.0 | 829.1 | 797.3 | 764.1 |
| 7145.2 | 35° | 6137.0 | 4546.3 | 1525.6 | 971.1 | 874.2 | 842.4 | 814.5 | 788.0 | 764.1 | 735.0 |
| 7892.1 | 37.5° | 6698.1 | 4774.5 | 1504.4 | 957.8 | 855.7 | 806.6 | 774.7 | 756.2 | 753.5 | 736.3 |
| 8700.0 | 40° | 7312.4 | 5045.2 | 1520.3 | 949.9 | 835.8 | 772.1 | 737.6 | 733.6 | 740.3 | 709.7 |
| 9563.6 | 42.5° | 7962.4 | 5366.2 | 1546.8 | 940.6 | 807.9 | 737.6 | 704.4 | 704.4 | 699.1 | 656.7 |
| 10476.4 | 45° | 8665.5 | 5736.3 | 1573.4 | 918.0 | 774.7 | 703.1 | 677.9 | 668.6 | 646.1 | 604.9 |
| 11394.4 | 47.5° | 9373.9 | 6113.1 | 1593.3 | 876.9 | 735.0 | 673.9 | 651.4 | 630.1 | 597.0 | 559.8 |
| 12295.2 | 50° | 10046.5 | 6451.4 | 1572.1 | 815.9 | 689.8 | 646.1 | 622.2 | 593.0 | 557.2 | 532.0 |
| 13148.2 | 52.5° | 10647.5 | 6744.6 | 1481.8 | 744.2 | 642.1 | 616.9 | 595.7 | 565.1 | 536.0 | 509.4 |
| 13917.6 | 55° | 11170.2 | 6982.0 | 1322.6 | 676.6 | 599.6 | 591.7 | 570.4 | 532.0 | 492.2 | 469.6 |
| 14680.4 | 57.5° | 11671.6 | 7162.4 | 1123.7 | 620.9 | 561.2 | 563.8 | 532.0 | 497.5 | 460.3 | 436.5 |
| 15708.6 | 60° | 12338.9 | 7403.9 | 922.0 | 569.1 | 520.0 | 528.0 | 493.5 | 468.3 | 421.9 | 391.4 |
| 17471.7 | 62.5° | 13405.5 | 7779.3 | 732.3 | 505.4 | 472.3 | 474.9 | 460.3 | 429.8 | 374.1 | 338.3 |
| 18778.4 | 65° | 14251.9 | 7641.4 | 577.1 | 436.5 | 417.9 | 421.9 | 421.9 | 388.7 | 329.0 | 287.9 |
| 18848.7 | 67.5° | 14156.4 | 6542.9 | 460.3 | 368.8 | 366.1 | 368.8 | 378.1 | 350.2 | 291.9 | 258.7 |
| 17413.3 | 70° | 13040.7 | 5204.4 | 368.8 | 306.5 | 318.4 | 311.8 | 338.3 | 319.7 | 262.7 | 229.5 |
| 13499.7 | 72.5° | 10640.9 | 3749.0 | 281.2 | 253.4 | 244.1 | 254.7 | 305.1 | 287.9 | 218.9 | 181.7 |
| 7150.5 | 75° | 6217.9 | 2000.6 | 209.6 | 200.3 | 176.4 | 212.3 | 270.6 | 245.4 | 167.2 | 134.0 |
| 2191.6 | 77.5° | 2024.4 | 697.8 | 153.9 | 147.3 | 131.3 | 171.1 | 230.8 | 207.0 | 136.6 | 106.1 |
| 642.1 | 80° | 542.6 | 210.9 | 104.8 | 96.8 | 84.9 | 127.4 | 183.1 | 164.5 | 98.2 | 69.0 |
| 275.9 | 82.5° | 217.6 | 88.9 | 61.0 | 54.4 | 46.4 | 87.6 | 144.6 | 132.7 | 73.0 | 43.8 |
| 86.2 | 85° | 70.3 | 29.2 | 22.6 | 17.2 | 21.2 | 54.4 | 86.2 | 90.2 | 51.7 | 22.6 |
| 13.3 | 87.5° | 9.3 | 4.0 | 4.0 | 5.3 | 4.0 | 9.3 | 26.5 | 25.2 | 14.6 | 2.7 |
| 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> |
|-------------|
| 3052.6 |
| 2691.7 |
| 2178.3 |
| 1684.8 |
| 1375.7 |
| 1262.9 |
| 1224.5 |
| 1180.7 |
| 1119.7 |
| 1041.4 |
| 956.5 |
| 874.2 |
| 809.2 |
| 765.5 |
| 732.3 |
| 735.0 |
| 711.1 |
| 656.7 |
| 603.6 |
| 558.5 |
| 528.0 |
| 506.8 |
| 467.0 |
| 433.8 |
| 387.4 |
| 335.6 |
| 283.9 |
| 253.4 |
| 225.5 |
| 177.8 |
| 130.0 |
| 102.2 |
| 67.7 |
| 43.8 |
| 17.2 |
| 0.0 |
| 0.0 |

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