

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: P950884

Luminaire Tested: **GALN-SB5A-950-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950884
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-SB5A-950-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 5000K, 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: 15668 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

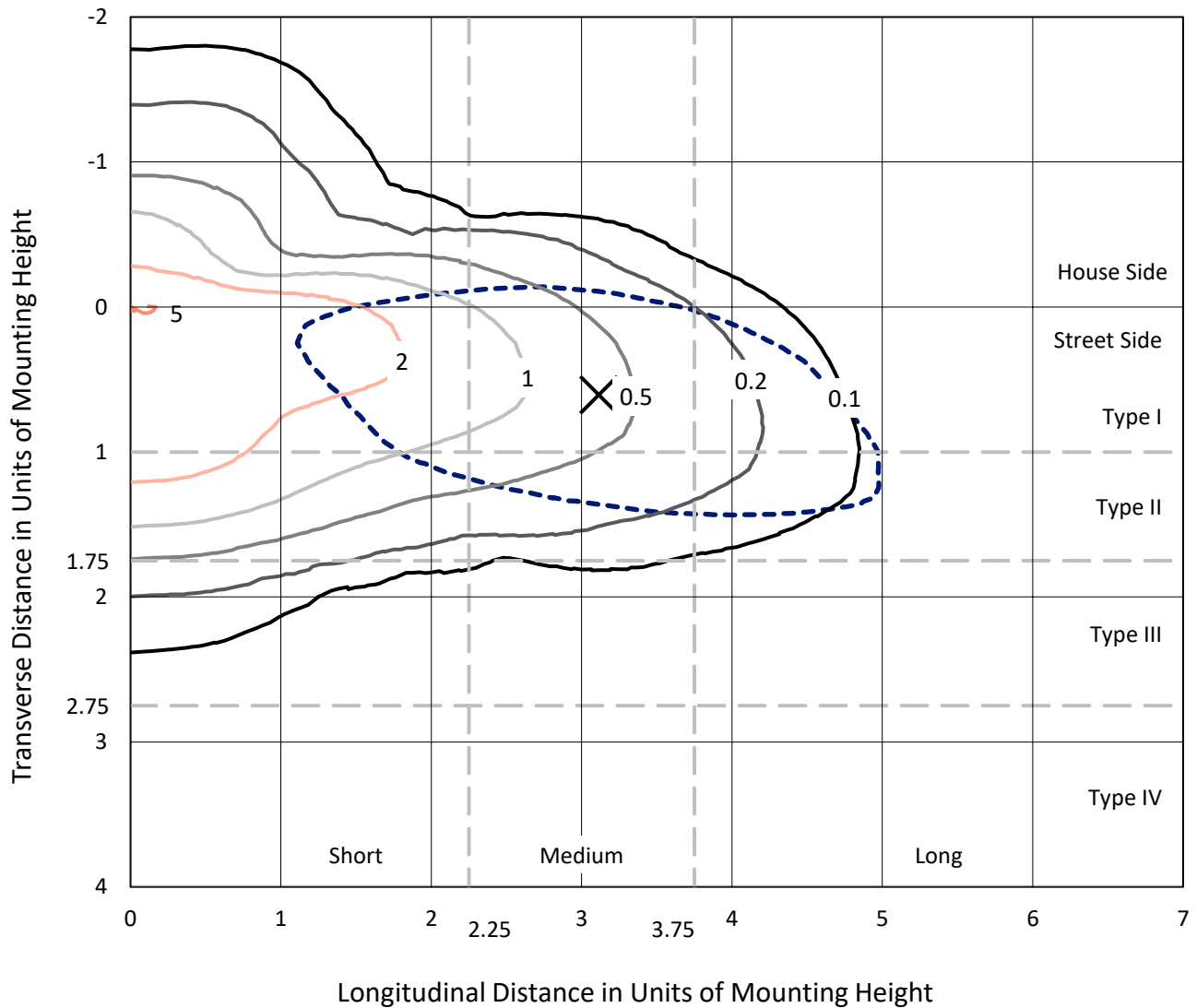
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

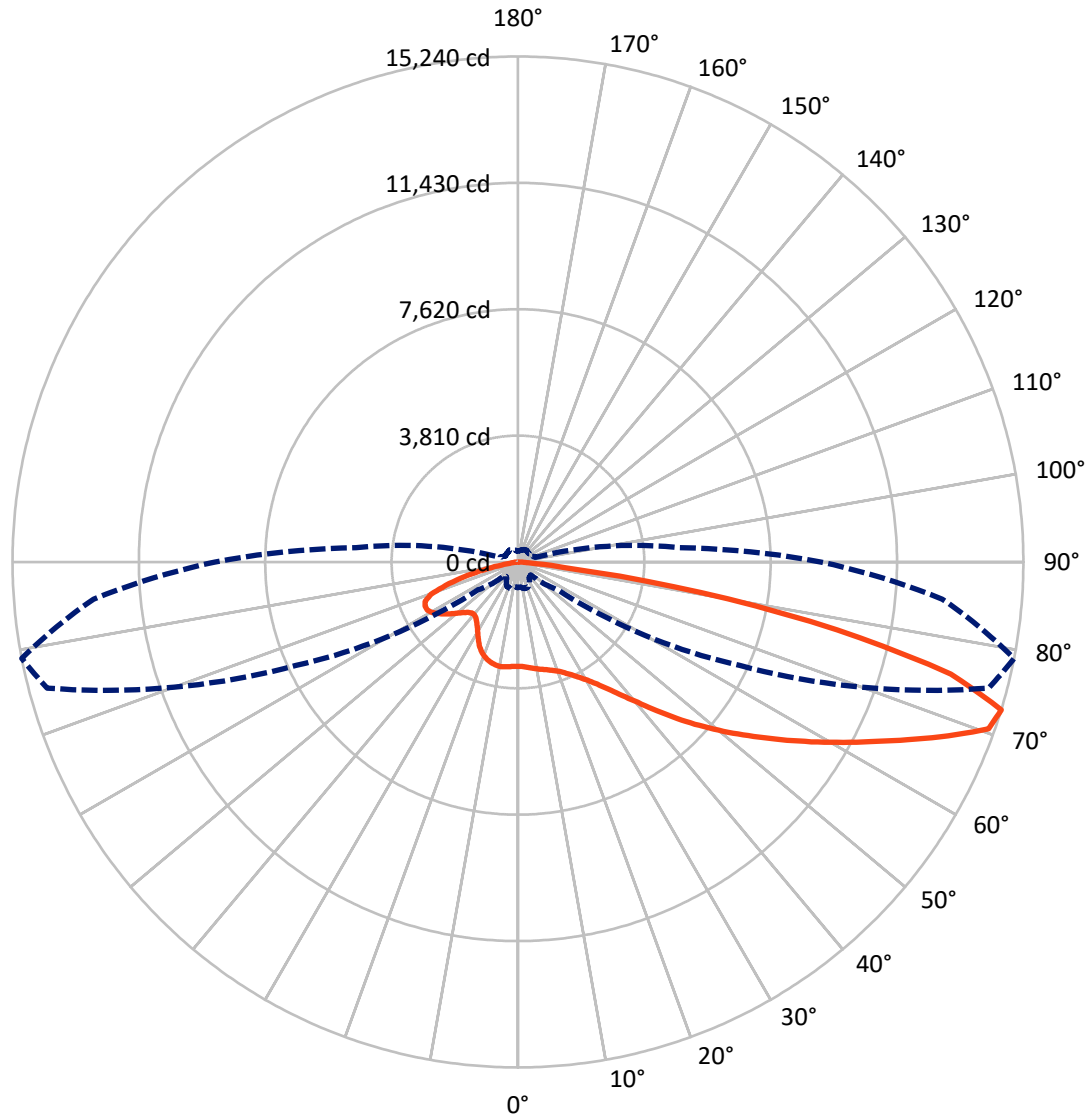
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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 | 3447.8 | 0.0 | 3447.8 |
| | % Fixture | 22.0 | 0.0 | 22.0 |
| Street Side | Lumens | 12220.2 | 0.0 | 12220.2 |
| | % Fixture | 78.0 | 0.0 | 78.0 |
| Total | Lumens | 15668.0 | 0.0 | 15668.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 285.5 | 1.8 |
| 10°-20° | 746.4 | 4.8 |
| 20°-30° | 1204.4 | 7.7 |
| 30°-40° | 1807.7 | 11.5 |
| 40°-50° | 2564.3 | 16.4 |
| 50°-60° | 3238.3 | 20.7 |
| 60°-70° | 3289.0 | 21.0 |
| 70°-80° | 2241.6 | 14.3 |
| 80°-90° | 290.8 | 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° | 15668.0 | 100.0 |
| 0°-180° | 15668.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P950884

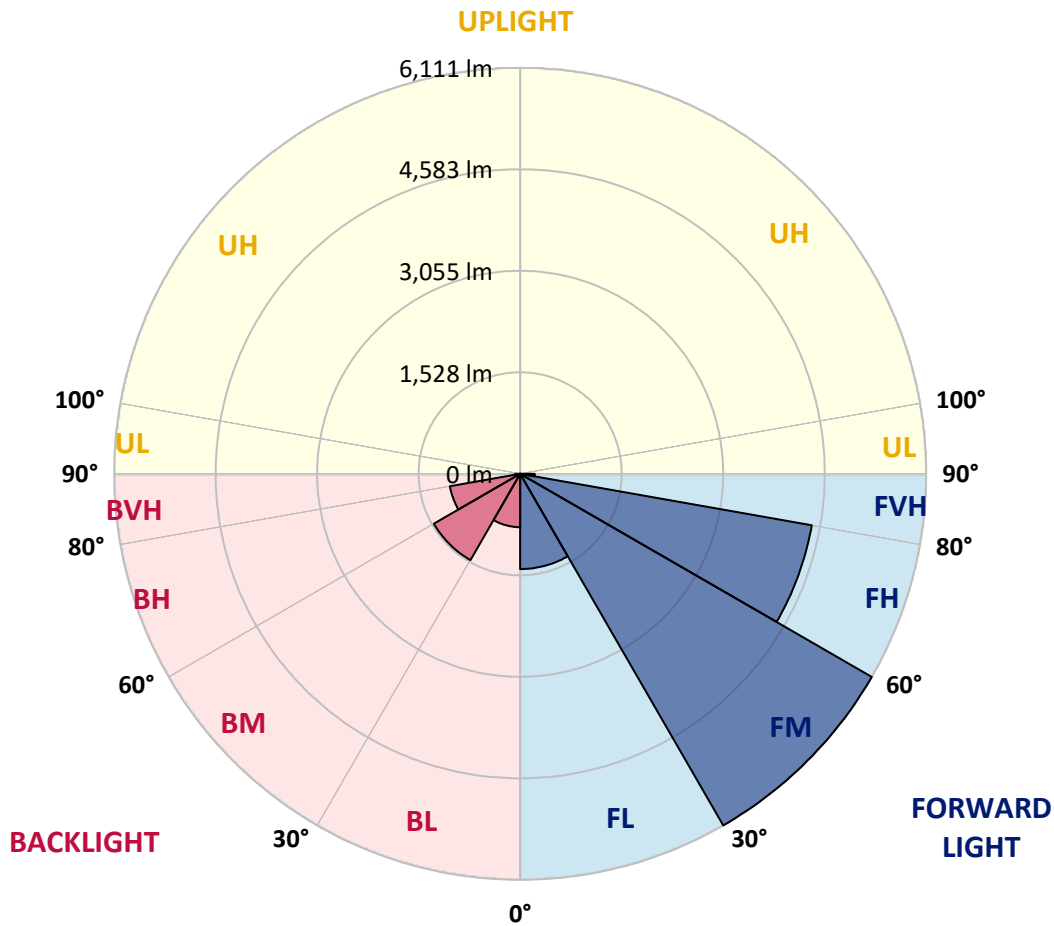
CATALOG NUMBER: GALN-SB5A-950-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1433.2 | 9.1 | | | |
| FM (30°-60°) | 6110.8 | 39.0 | | | |
| FH (60°-80°) | 4457.0 | 28.4 | | | G2/5000 |
| FVH (80°-90°) | 219.1 | 1.4 | | | G2/225 |
| BL (0°-30°) | 803.1 | 5.1 | B2/1000 | | |
| BM (30°-60°) | 1499.4 | 9.6 | B2/2500 | | |
| BH (60°-80°) | 1073.5 | 6.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 71.7 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type II Medium



REPORT NUMBER: P950884

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 79° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| 0° | 3145.2 | 3145.2 | 3145.2 | 3145.2 | 3145.2 | 3145.2 | 3145.2 | 3145.2 | 3145.2 | 3145.2 |
| 2.5° | 3146.9 | 3131.9 | 3141.1 | 3137.7 | 3141.9 | 3146.9 | 3148.5 | 3151.0 | 3159.3 | 3158.5 |
| 5° | 3140.2 | 3125.3 | 3137.7 | 3133.6 | 3144.4 | 3156.0 | 3165.9 | 3175.0 | 3188.3 | 3194.1 |
| 7.5° | 3126.1 | 3116.2 | 3128.6 | 3141.1 | 3160.9 | 3178.4 | 3192.4 | 3213.2 | 3232.2 | 3235.5 |
| 10° | 3044.1 | 3036.6 | 3065.6 | 3098.0 | 3152.7 | 3199.9 | 3230.6 | 3254.6 | 3275.3 | 3278.6 |
| 12.5° | 2958.7 | 2949.6 | 2981.9 | 3025.9 | 3114.5 | 3199.9 | 3264.5 | 3296.0 | 3314.3 | 3325.0 |
| 15° | 2944.6 | 2937.2 | 2955.4 | 2993.5 | 3067.3 | 3177.5 | 3287.8 | 3345.8 | 3361.5 | 3373.9 |
| 17.5° | 3012.6 | 2998.5 | 3006.0 | 3019.2 | 3062.3 | 3156.8 | 3306.0 | 3402.1 | 3426.2 | 3439.4 |
| 20° | 3170.1 | 3150.2 | 3138.6 | 3112.1 | 3104.6 | 3160.1 | 3304.3 | 3470.1 | 3501.6 | 3518.2 |
| 22.5° | 3379.7 | 3366.5 | 3341.6 | 3274.5 | 3201.6 | 3200.7 | 3335.8 | 3557.1 | 3615.9 | 3631.7 |
| 25° | 3633.4 | 3613.5 | 3582.0 | 3490.8 | 3350.7 | 3281.1 | 3388.9 | 3668.2 | 3766.8 | 3770.9 |
| 27.5° | 3925.1 | 3895.2 | 3852.1 | 3732.0 | 3543.0 | 3407.1 | 3470.1 | 3795.8 | 3940.0 | 3938.3 |
| 30° | 4232.6 | 4202.7 | 4157.1 | 4011.3 | 3773.4 | 3577.0 | 3582.8 | 3933.4 | 4145.5 | 4136.4 |
| 32.5° | 4457.2 | 4434.8 | 4425.7 | 4312.9 | 4038.6 | 3777.6 | 3712.1 | 4085.9 | 4399.1 | 4390.9 |
| 35° | 4629.5 | 4600.5 | 4611.3 | 4554.1 | 4327.9 | 4002.2 | 3870.4 | 4267.4 | 4707.4 | 4706.6 |
| 37.5° | 4800.3 | 4774.6 | 4783.7 | 4745.6 | 4595.6 | 4287.3 | 4063.5 | 4489.5 | 5089.5 | 5107.7 |
| 40° | 4956.1 | 4928.7 | 4965.2 | 4929.6 | 4803.6 | 4590.6 | 4283.1 | 4740.6 | 5532.1 | 5566.9 |
| 42.5° | 5049.7 | 5028.2 | 5088.7 | 5089.5 | 4984.3 | 4846.7 | 4524.3 | 5017.4 | 6044.3 | 6122.2 |
| 45° | 5082.0 | 5074.6 | 5165.8 | 5184.8 | 5144.2 | 4995.0 | 4741.4 | 5319.1 | 6596.2 | 6735.5 |
| 47.5° | 5047.2 | 5033.2 | 5159.1 | 5229.6 | 5261.9 | 5064.6 | 4921.3 | 5645.6 | 7159.8 | 7363.7 |
| 50° | 4871.5 | 4844.2 | 5031.5 | 5179.8 | 5295.0 | 5110.2 | 5102.8 | 6022.7 | 7800.4 | 8023.4 |
| 52.5° | 4555.8 | 4535.1 | 4748.1 | 5005.8 | 5222.1 | 5132.6 | 5306.6 | 6434.6 | 8408.8 | 8697.2 |
| 55° | 4152.2 | 4124.8 | 4359.4 | 4695.8 | 5040.6 | 5125.1 | 5510.5 | 6895.4 | 9126.5 | 9419.0 |
| 57.5° | 3512.3 | 3457.7 | 3754.4 | 4152.2 | 4744.7 | 5116.0 | 5722.7 | 7353.7 | 9855.8 | 10206.4 |
| 60° | 2579.1 | 2497.9 | 2861.8 | 3333.3 | 4166.3 | 5027.4 | 5985.4 | 7867.6 | 10731.0 | 11046.7 |
| 62.5° | 1501.7 | 1454.5 | 1692.4 | 2132.4 | 3140.2 | 4505.2 | 6132.9 | 8465.1 | 11591.3 | 11922.8 |
| 65° | 1166.1 | 1152.8 | 1173.5 | 1207.5 | 1747.9 | 3373.1 | 5677.9 | 9047.7 | 12685.2 | 12917.3 |
| 67.5° | 1066.6 | 1056.7 | 1065.8 | 1002.0 | 886.8 | 1878.8 | 4492.0 | 9195.3 | 13857.1 | 13998.0 |
| 70° | 948.1 | 936.5 | 966.4 | 911.7 | 697.8 | 854.5 | 2902.4 | 8659.9 | 14789.5 | 15053.9 |
| 72.5° | 772.4 | 759.2 | 828.8 | 803.9 | 587.6 | 548.6 | 1457.8 | 7387.7 | 14691.7 | 15240.3 |
| 75° | 593.4 | 585.9 | 668.8 | 689.5 | 479.0 | 431.8 | 699.5 | 5491.5 | 12928.9 | 13481.7 |
| 77.5° | 460.8 | 455.0 | 497.3 | 572.7 | 386.2 | 334.8 | 430.1 | 3483.3 | 9743.1 | 9840.0 |
| 80° | 345.6 | 329.0 | 368.0 | 443.4 | 300.8 | 244.5 | 291.7 | 2031.3 | 6158.6 | 5582.6 |
| 82.5° | 216.3 | 208.0 | 240.3 | 295.9 | 212.2 | 168.2 | 189.8 | 1122.2 | 2468.1 | 1453.7 |
| 85° | 123.5 | 120.2 | 130.9 | 169.1 | 115.2 | 97.0 | 108.6 | 495.6 | 450.9 | 310.0 |
| 87.5° | 49.7 | 48.1 | 59.7 | 75.4 | 42.3 | 35.6 | 38.1 | 119.3 | 99.5 | 92.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P950884
 CATALOG NUMBER: GALN-SB5A-950-U-SL2

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3145.2 | 0° | 3145.2 | 3145.2 | 3145.2 | 3145.2 | 3145.2 | 3145.2 | 3145.2 | 3145.2 | 3145.2 | 3145.2 |
| 3157.6 | 2.5° | 3154.3 | 3154.3 | 3142.7 | 3124.5 | 3103.8 | 3090.5 | 3069.0 | 3063.2 | 3040.8 | 3034.1 |
| 3185.8 | 5° | 3192.4 | 3185.8 | 3150.2 | 3098.8 | 3028.3 | 2963.7 | 2892.4 | 2847.7 | 2784.7 | 2762.3 |
| 3241.3 | 7.5° | 3240.5 | 3222.3 | 3160.9 | 3048.2 | 2900.7 | 2755.7 | 2604.8 | 2490.5 | 2381.1 | 2342.1 |
| 3286.9 | 10° | 3284.4 | 3258.7 | 3154.3 | 2957.1 | 2701.8 | 2450.7 | 2210.3 | 2042.1 | 1914.5 | 1862.3 |
| 3337.5 | 12.5° | 3328.4 | 3281.1 | 3110.4 | 2805.4 | 2419.2 | 2078.6 | 1822.5 | 1691.5 | 1612.8 | 1549.8 |
| 3378.9 | 15° | 3369.8 | 3303.5 | 3042.4 | 2602.4 | 2109.2 | 1763.6 | 1574.7 | 1470.2 | 1407.3 | 1365.8 |
| 3439.4 | 17.5° | 3417.9 | 3322.6 | 2940.5 | 2344.6 | 1814.2 | 1545.7 | 1391.5 | 1328.5 | 1316.1 | 1311.1 |
| 3522.3 | 20° | 3485.0 | 3340.0 | 2806.2 | 2056.2 | 1597.0 | 1371.6 | 1292.1 | 1286.3 | 1285.4 | 1282.9 |
| 3621.7 | 22.5° | 3557.1 | 3360.7 | 2628.9 | 1794.3 | 1412.2 | 1263.1 | 1249.0 | 1237.4 | 1229.9 | 1229.1 |
| 3741.9 | 25° | 3642.5 | 3367.3 | 2406.8 | 1579.6 | 1254.8 | 1211.7 | 1195.1 | 1177.7 | 1172.7 | 1172.7 |
| 3878.7 | 27.5° | 3725.3 | 3344.9 | 2148.2 | 1393.2 | 1166.1 | 1164.4 | 1142.9 | 1137.1 | 1136.3 | 1138.7 |
| 4034.5 | 30° | 3808.2 | 3302.7 | 1891.3 | 1220.8 | 1114.7 | 1114.7 | 1107.2 | 1111.4 | 1114.7 | 1123.0 |
| 4248.3 | 32.5° | 3920.1 | 3257.9 | 1676.6 | 1093.2 | 1069.9 | 1061.7 | 1069.1 | 1077.4 | 1080.7 | 1091.5 |
| 4529.3 | 35° | 4084.2 | 3226.4 | 1505.9 | 1023.5 | 1023.5 | 1012.8 | 1016.9 | 1015.2 | 1007.8 | 1002.8 |
| 4869.1 | 37.5° | 4301.3 | 3224.8 | 1365.0 | 991.2 | 984.6 | 982.9 | 983.8 | 973.0 | 944.0 | 909.2 |
| 5280.1 | 40° | 4562.4 | 3269.5 | 1256.4 | 968.8 | 963.9 | 973.8 | 968.8 | 939.8 | 860.3 | 799.8 |
| 5785.7 | 42.5° | 4913.0 | 3397.1 | 1186.8 | 941.5 | 956.4 | 968.8 | 948.9 | 848.7 | 794.8 | 754.2 |
| 6361.7 | 45° | 5325.7 | 3604.3 | 1151.2 | 912.5 | 942.3 | 957.2 | 861.1 | 817.2 | 774.1 | 725.2 |
| 6989.9 | 47.5° | 5793.1 | 3865.4 | 1142.9 | 885.1 | 910.8 | 919.9 | 823.8 | 803.9 | 755.0 | 702.0 |
| 7621.4 | 50° | 6302.0 | 4174.5 | 1165.3 | 852.8 | 865.2 | 833.7 | 811.4 | 793.1 | 742.6 | 690.4 |
| 8268.7 | 52.5° | 6828.3 | 4515.2 | 1210.0 | 808.9 | 819.7 | 784.9 | 806.4 | 790.7 | 735.1 | 664.7 |
| 8937.5 | 55° | 7345.4 | 4858.3 | 1253.1 | 757.5 | 773.2 | 740.9 | 792.3 | 780.7 | 701.1 | 621.6 |
| 9651.1 | 57.5° | 7870.9 | 5199.7 | 1295.4 | 711.9 | 728.5 | 698.7 | 769.9 | 754.2 | 663.0 | 581.8 |
| 10430.1 | 60° | 8417.0 | 5531.2 | 1315.3 | 668.0 | 679.6 | 659.7 | 736.0 | 708.6 | 619.9 | 541.2 |
| 11195.9 | 62.5° | 8928.4 | 5807.2 | 1282.9 | 624.1 | 631.5 | 623.2 | 691.2 | 654.7 | 576.8 | 495.6 |
| 11994.0 | 65° | 9441.4 | 5971.3 | 1183.5 | 581.0 | 582.6 | 578.5 | 628.2 | 596.7 | 526.3 | 455.8 |
| 12692.7 | 67.5° | 9906.4 | 6063.3 | 1025.2 | 534.6 | 530.4 | 528.8 | 569.4 | 533.7 | 477.4 | 416.0 |
| 13223.9 | 70° | 10005.0 | 5829.6 | 783.2 | 479.9 | 479.9 | 475.7 | 504.7 | 468.3 | 423.5 | 373.8 |
| 12843.5 | 72.5° | 9138.1 | 4903.9 | 556.1 | 417.7 | 424.3 | 416.0 | 440.1 | 409.4 | 368.8 | 335.7 |
| 11069.1 | 75° | 7368.6 | 3596.1 | 404.4 | 353.9 | 365.5 | 351.4 | 373.8 | 352.2 | 317.4 | 316.6 |
| 7628.0 | 77.5° | 5063.0 | 2223.6 | 293.4 | 291.7 | 300.0 | 281.8 | 307.5 | 295.9 | 264.4 | 250.3 |
| 3320.1 | 80° | 2160.6 | 886.8 | 213.8 | 225.4 | 225.4 | 208.9 | 238.7 | 242.0 | 214.7 | 208.0 |
| 640.6 | 82.5° | 430.1 | 251.9 | 150.0 | 155.0 | 145.9 | 140.9 | 169.1 | 187.3 | 258.6 | 287.6 |
| 193.1 | 85° | 129.3 | 92.8 | 90.3 | 84.5 | 74.6 | 75.4 | 99.5 | 188.1 | 232.1 | 132.6 |
| 63.8 | 87.5° | 35.6 | 23.2 | 24.0 | 19.1 | 15.7 | 20.7 | 34.0 | 142.5 | 77.9 | 33.2 |
| 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> |
|-------------|
| 3145.2 |
| 3044.9 |
| 2778.9 |
| 2347.1 |
| 1873.9 |
| 1570.5 |
| 1373.3 |
| 1314.4 |
| 1291.2 |
| 1238.2 |
| 1177.7 |
| 1145.4 |
| 1128.8 |
| 1100.6 |
| 1014.4 |
| 910.0 |
| 798.1 |
| 752.5 |
| 721.9 |
| 697.8 |
| 684.6 |
| 659.7 |
| 617.4 |
| 580.1 |
| 538.7 |
| 494.8 |
| 450.9 |
| 411.1 |
| 372.1 |
| 325.7 |
| 285.1 |
| 234.5 |
| 208.0 |
| 288.4 |
| 114.4 |
| 28.2 |
| 0.0 |

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