

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: P942222

Luminaire Tested: **GALN-SB6A-850-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942222
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB6A-850-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25792 lumens
Efficiency: N/A
Efficacy: 150.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

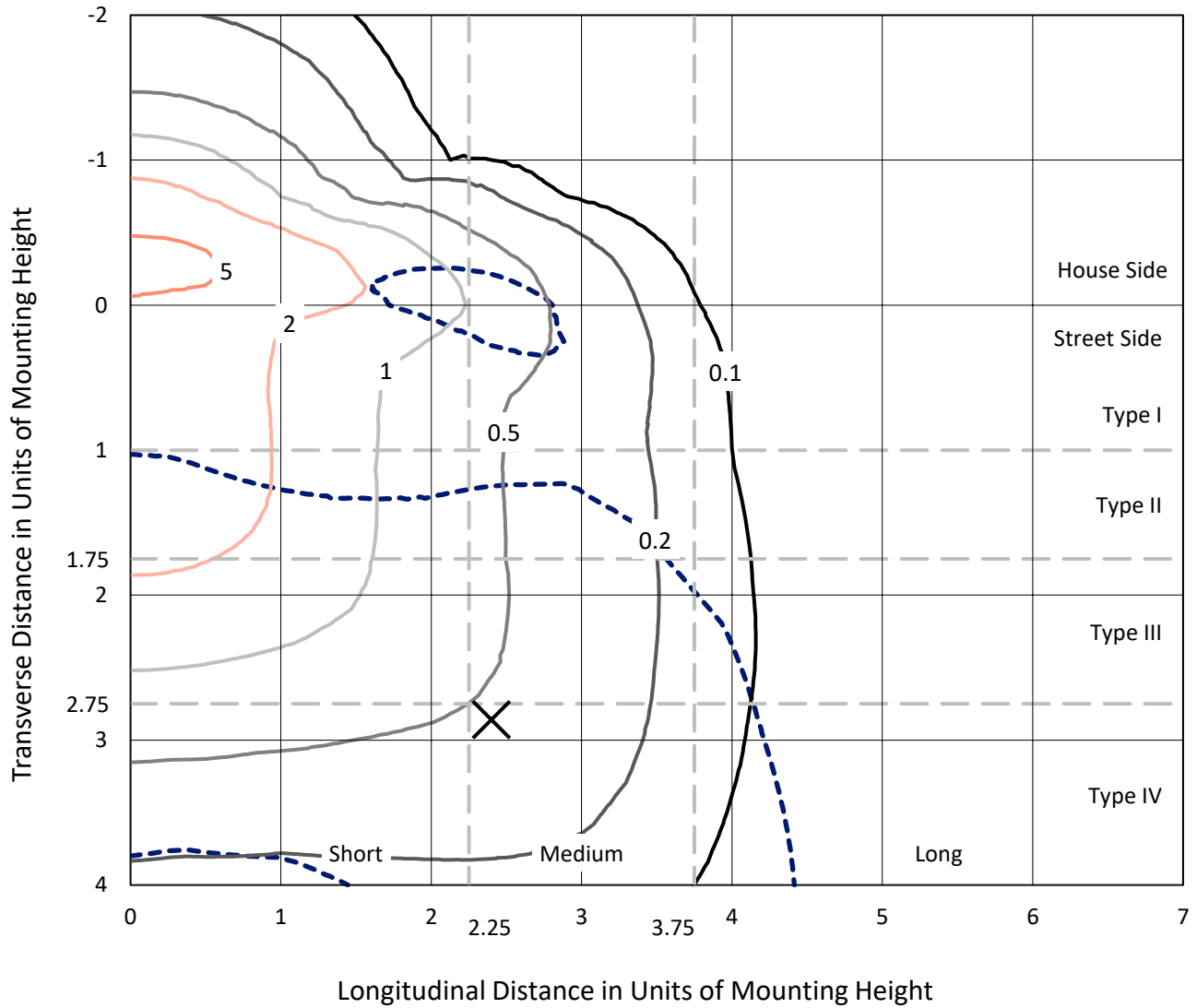
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

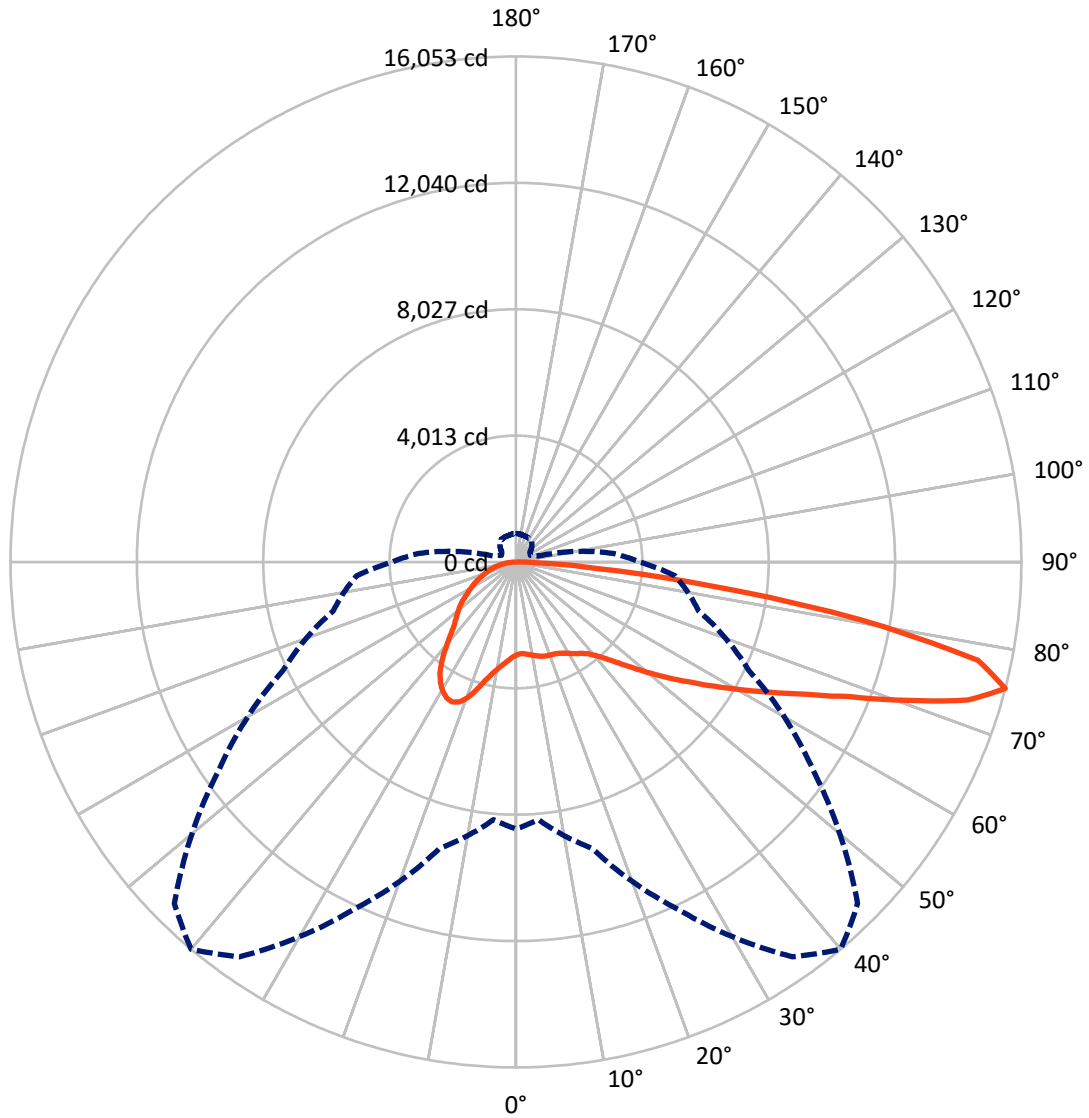
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7991.2 | 0.0 | 7991.2 |
| | % Fixture | 31.0 | 0.0 | 31.0 |
| Street Side | Lumens | 17800.8 | 0.0 | 17800.8 |
| | % Fixture | 69.0 | 0.0 | 69.0 |
| Total | Lumens | 25792.0 | 0.0 | 25792.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 294.4 | 1.1 |
| 10°-20° | 988.4 | 3.8 |
| 20°-30° | 1804.8 | 7.0 |
| 30°-40° | 2559.7 | 9.9 |
| 40°-50° | 3456.4 | 13.4 |
| 50°-60° | 4649.8 | 18.0 |
| 60°-70° | 5901.6 | 22.9 |
| 70°-80° | 5356.1 | 20.8 |
| 80°-90° | 780.8 | 3.0 |
| 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° | 25792.0 | 100.0 |
| 0°-180° | 25792.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P942222

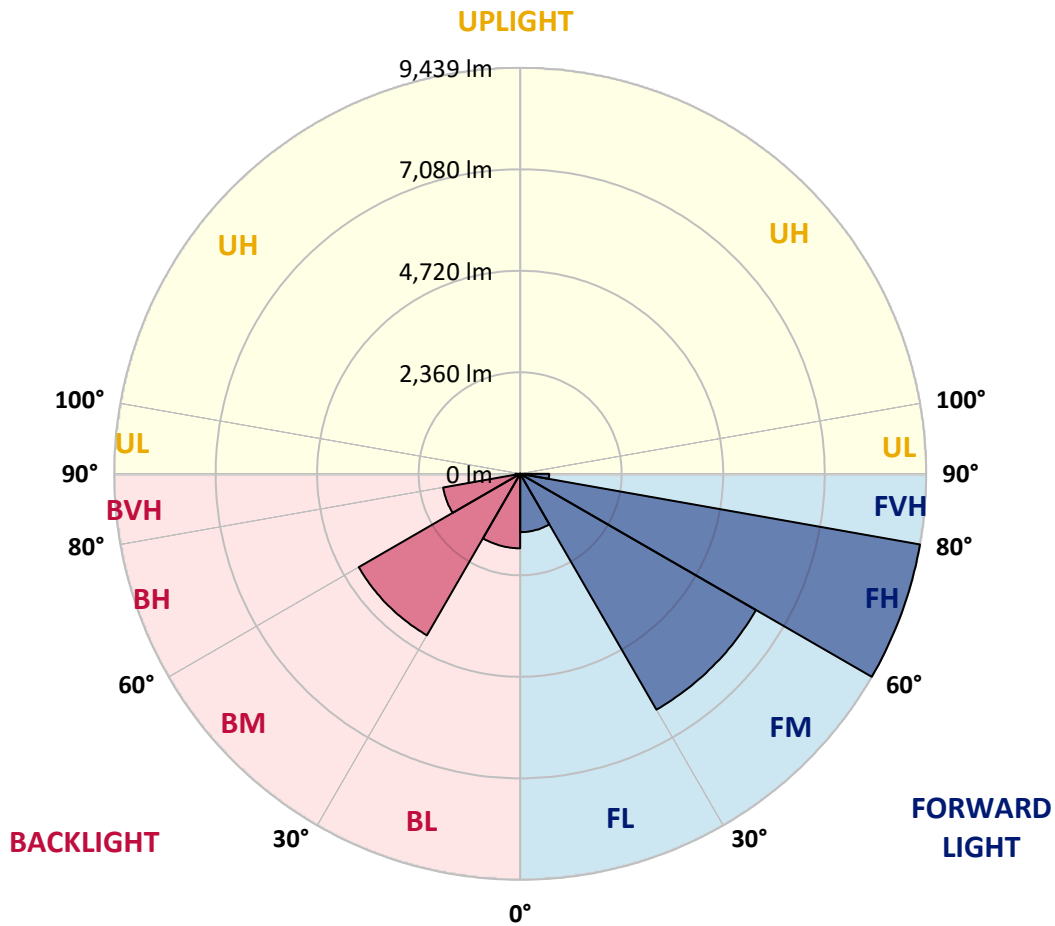
CATALOG NUMBER: GALN-SB6A-850-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1356.7 | 5.3 | | | |
| FM (30°-60°) | 6331.4 | 24.5 | | | |
| FH (60°-80°) | 9439.5 | 36.6 | | | G4/12000 |
| FVH (80°-90°) | 673.3 | 2.6 | | | G4/750 |
| BL (0°-30°) | 1731.0 | 6.7 | B3/2500 | | |
| BM (30°-60°) | 4334.5 | 16.8 | B3/5000 | | |
| BH (60°-80°) | 1818.2 | 7.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 107.5 | 0.4 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type IV Medium



REPORT NUMBER: P942222

CATALOG NUMBER: GALN-SB6A-850-U-SL4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 40° | 45° | 55° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| 0° | 2949.3 | 2949.3 | 2949.3 | 2949.3 | 2949.3 | 2949.3 | 2949.3 | 2949.3 | 2949.3 | 2949.3 |
| 2.5° | 2904.2 | 2920.6 | 2916.5 | 2911.0 | 2911.0 | 2912.4 | 2911.0 | 2920.6 | 2930.2 | 2939.8 |
| 5° | 2934.3 | 2950.7 | 2942.5 | 2935.7 | 2930.2 | 2928.8 | 2924.7 | 2923.4 | 2928.8 | 2941.1 |
| 7.5° | 2993.1 | 3009.5 | 2997.2 | 2984.9 | 2974.0 | 2968.5 | 2963.0 | 2954.8 | 2950.7 | 2957.6 |
| 10° | 3058.8 | 3075.2 | 3060.2 | 3038.3 | 3020.5 | 3013.6 | 3008.2 | 3000.0 | 2994.5 | 2998.6 |
| 12.5° | 3124.5 | 3140.9 | 3120.3 | 3090.3 | 3067.0 | 3062.9 | 3056.1 | 3053.3 | 3051.9 | 3050.6 |
| 15° | 3186.0 | 3199.7 | 3173.7 | 3138.1 | 3113.5 | 3106.7 | 3099.8 | 3103.9 | 3110.8 | 3119.0 |
| 17.5° | 3233.9 | 3247.6 | 3209.3 | 3162.8 | 3139.5 | 3136.8 | 3132.7 | 3146.3 | 3165.5 | 3186.0 |
| 20° | 3277.7 | 3291.3 | 3242.1 | 3179.2 | 3151.8 | 3151.8 | 3153.2 | 3181.9 | 3209.3 | 3239.4 |
| 22.5° | 3339.2 | 3350.2 | 3290.0 | 3203.8 | 3164.1 | 3166.9 | 3177.8 | 3206.5 | 3240.7 | 3281.8 |
| 25° | 3430.9 | 3439.1 | 3365.2 | 3250.3 | 3205.2 | 3213.4 | 3222.9 | 3236.6 | 3269.5 | 3317.3 |
| 27.5° | 3578.6 | 3585.5 | 3488.3 | 3332.4 | 3264.0 | 3277.7 | 3291.3 | 3281.8 | 3296.8 | 3337.9 |
| 30° | 3786.5 | 3790.7 | 3667.5 | 3461.0 | 3363.8 | 3370.7 | 3373.4 | 3333.7 | 3305.0 | 3337.9 |
| 32.5° | 4032.8 | 4031.4 | 3885.0 | 3616.9 | 3477.4 | 3470.5 | 3447.3 | 3369.3 | 3302.3 | 3331.0 |
| 35° | 4414.4 | 4399.4 | 4210.6 | 3835.8 | 3606.0 | 3563.6 | 3508.9 | 3409.0 | 3316.0 | 3324.2 |
| 37.5° | 5046.5 | 4999.9 | 4738.7 | 4194.2 | 3797.5 | 3689.4 | 3608.7 | 3473.3 | 3346.1 | 3321.4 |
| 40° | 5759.2 | 5700.3 | 5413.1 | 4685.3 | 4084.8 | 3911.0 | 3781.1 | 3564.9 | 3395.3 | 3333.7 |
| 42.5° | 6604.6 | 6521.1 | 6212.0 | 5264.0 | 4448.6 | 4196.9 | 4001.3 | 3681.2 | 3467.8 | 3373.4 |
| 45° | 7642.9 | 7532.1 | 7094.3 | 5916.5 | 4906.9 | 4571.8 | 4310.5 | 3857.7 | 3578.6 | 3450.0 |
| 47.5° | 8692.1 | 8719.5 | 8097.0 | 6663.4 | 5456.8 | 5034.1 | 4697.6 | 4123.1 | 3740.0 | 3573.1 |
| 50° | 9807.0 | 9826.1 | 9094.3 | 7491.0 | 6080.6 | 5556.7 | 5132.6 | 4419.9 | 3964.4 | 3748.2 |
| 52.5° | 10677.0 | 10679.8 | 9999.9 | 8356.9 | 6730.4 | 6131.3 | 5601.8 | 4759.2 | 4224.3 | 3980.8 |
| 55° | 11221.5 | 11214.6 | 10634.6 | 9176.4 | 7477.3 | 6734.5 | 6121.7 | 5144.9 | 4541.7 | 4254.4 |
| 57.5° | 11616.8 | 11596.3 | 11072.4 | 9880.9 | 8273.5 | 7447.2 | 6709.9 | 5582.7 | 4916.5 | 4580.0 |
| 60° | 11767.3 | 11755.0 | 11369.2 | 10489.6 | 9110.7 | 8235.2 | 7388.4 | 6072.4 | 5341.9 | 4964.4 |
| 62.5° | 11824.8 | 11848.0 | 11660.6 | 11079.2 | 10006.7 | 9108.0 | 8134.0 | 6657.9 | 5820.7 | 5399.4 |
| 65° | 12027.2 | 12069.6 | 12031.3 | 11850.7 | 11019.0 | 10129.8 | 9123.0 | 7354.2 | 6343.3 | 5865.9 |
| 67.5° | 12428.0 | 12470.4 | 12486.9 | 12774.1 | 12255.7 | 11403.4 | 10356.9 | 8221.5 | 6954.8 | 6350.1 |
| 70° | 12418.5 | 12406.1 | 12696.2 | 13508.7 | 13804.2 | 13166.7 | 12020.4 | 9288.5 | 7683.9 | 6752.3 |
| 72.5° | 11303.6 | 11205.1 | 11890.4 | 13500.5 | 15092.8 | 15008.0 | 14051.8 | 10664.7 | 8313.2 | 6801.6 |
| 75° | 8480.1 | 8217.4 | 9428.1 | 12166.8 | 15307.6 | 16053.2 | 15343.2 | 11518.3 | 8164.1 | 6009.5 |
| 77.5° | 3626.5 | 3362.5 | 4789.3 | 9006.7 | 13700.2 | 15006.7 | 14158.5 | 10049.1 | 6517.0 | 3974.0 |
| 80° | 949.4 | 948.0 | 1447.3 | 4083.4 | 9317.3 | 11081.9 | 9722.2 | 6489.7 | 3723.6 | 1420.0 |
| 82.5° | 392.6 | 383.0 | 532.1 | 1588.2 | 4552.6 | 6218.8 | 5075.2 | 2894.6 | 1344.7 | 384.4 |
| 85° | 146.4 | 145.0 | 258.5 | 548.6 | 1606.0 | 2564.9 | 1856.3 | 740.1 | 335.2 | 187.4 |
| 87.5° | 41.0 | 39.7 | 56.1 | 190.1 | 391.2 | 593.7 | 317.4 | 121.7 | 94.4 | 73.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P942222
 CATALOG NUMBER: GALN-SB6A-850-U-SL4

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2949.3 | 0° | 2949.3 | 2949.3 | 2949.3 | 2949.3 | 2949.3 | 2949.3 | 2949.3 | 2949.3 | 2949.3 | 2949.3 |
| 2954.8 | 2.5° | 2958.9 | 2965.8 | 2978.1 | 2987.7 | 3000.0 | 3013.6 | 3032.8 | 3045.1 | 3057.4 | 3065.6 |
| 2961.7 | 5° | 2971.2 | 2986.3 | 3017.7 | 3049.2 | 3086.1 | 3120.3 | 3160.0 | 3188.7 | 3212.0 | 3218.8 |
| 2986.3 | 7.5° | 2998.6 | 3023.2 | 3076.6 | 3129.9 | 3188.7 | 3244.8 | 3302.3 | 3351.5 | 3391.2 | 3406.3 |
| 3030.1 | 10° | 3046.5 | 3079.3 | 3154.5 | 3229.8 | 3307.8 | 3393.9 | 3467.8 | 3538.9 | 3595.0 | 3618.3 |
| 3082.0 | 12.5° | 3106.7 | 3147.7 | 3246.2 | 3350.2 | 3458.2 | 3577.2 | 3673.0 | 3760.6 | 3830.3 | 3861.8 |
| 3154.5 | 15° | 3184.6 | 3238.0 | 3363.8 | 3503.4 | 3662.1 | 3827.6 | 3949.3 | 4046.5 | 4124.4 | 4162.7 |
| 3229.8 | 17.5° | 3269.5 | 3340.6 | 3499.3 | 3709.9 | 3937.0 | 4154.5 | 4296.8 | 4367.9 | 4448.6 | 4485.6 |
| 3299.6 | 20° | 3351.5 | 3439.1 | 3666.2 | 3972.6 | 4274.9 | 4506.1 | 4621.0 | 4640.2 | 4645.6 | 4649.7 |
| 3365.2 | 22.5° | 3436.3 | 3554.0 | 3875.5 | 4303.6 | 4627.9 | 4787.9 | 4804.3 | 4722.2 | 4607.3 | 4554.0 |
| 3429.5 | 25° | 3529.4 | 3685.3 | 4149.1 | 4668.9 | 4931.5 | 4950.7 | 4824.8 | 4625.1 | 4407.6 | 4307.7 |
| 3481.5 | 27.5° | 3619.7 | 3837.2 | 4477.4 | 5017.7 | 5150.4 | 4982.2 | 4711.3 | 4428.1 | 4165.5 | 4060.1 |
| 3518.4 | 30° | 3709.9 | 4010.9 | 4839.9 | 5322.8 | 5250.3 | 4904.2 | 4532.1 | 4216.1 | 3952.1 | 3841.3 |
| 3551.3 | 32.5° | 3801.6 | 4213.4 | 5257.1 | 5543.0 | 5232.5 | 4738.7 | 4309.1 | 3978.1 | 3745.5 | 3629.2 |
| 3580.0 | 35° | 3905.6 | 4462.3 | 5652.5 | 5663.4 | 5113.5 | 4495.2 | 4015.0 | 3693.5 | 3491.1 | 3398.0 |
| 3614.2 | 37.5° | 4041.0 | 4778.3 | 6001.3 | 5693.5 | 4905.6 | 4138.1 | 3649.8 | 3357.0 | 3190.1 | 3147.7 |
| 3664.8 | 40° | 4209.3 | 5158.6 | 6268.1 | 5645.6 | 4597.8 | 3704.5 | 3250.3 | 3016.4 | 2922.0 | 2931.6 |
| 3733.2 | 42.5° | 4428.1 | 5584.1 | 6455.5 | 5522.5 | 4169.6 | 3257.1 | 2900.1 | 2796.1 | 2841.3 | 2879.6 |
| 3835.8 | 45° | 4712.7 | 6025.9 | 6571.7 | 5313.2 | 3685.3 | 2878.2 | 2693.5 | 2718.2 | 2752.4 | 2756.5 |
| 4001.3 | 47.5° | 5076.5 | 6473.2 | 6648.3 | 4997.2 | 3191.5 | 2611.5 | 2562.2 | 2567.7 | 2560.8 | 2532.1 |
| 4248.9 | 50° | 5530.7 | 6908.3 | 6716.7 | 4578.6 | 2771.5 | 2444.6 | 2378.9 | 2359.8 | 2265.4 | 2172.3 |
| 4578.6 | 52.5° | 6047.8 | 7307.7 | 6745.5 | 4058.8 | 2444.6 | 2305.0 | 2198.3 | 2078.0 | 1901.5 | 1872.8 |
| 4993.1 | 55° | 6622.4 | 7677.1 | 6671.6 | 3419.9 | 2169.6 | 2125.8 | 1964.4 | 1819.4 | 1800.3 | 1775.6 |
| 5538.9 | 57.5° | 7309.1 | 8075.1 | 6521.1 | 2707.2 | 1887.8 | 1916.5 | 1759.2 | 1775.6 | 1741.4 | 1703.1 |
| 6240.7 | 60° | 8060.1 | 8486.9 | 6257.1 | 2057.4 | 1596.4 | 1655.2 | 1705.9 | 1704.5 | 1694.9 | 1663.5 |
| 6980.8 | 62.5° | 8735.9 | 8757.8 | 5737.3 | 1575.9 | 1340.6 | 1452.8 | 1591.0 | 1589.6 | 1581.4 | 1563.6 |
| 7753.7 | 65° | 9138.1 | 8716.7 | 4870.0 | 1240.8 | 1129.9 | 1285.9 | 1435.0 | 1445.9 | 1447.3 | 1445.9 |
| 8335.1 | 67.5° | 9066.9 | 8236.6 | 3679.8 | 987.7 | 956.2 | 1116.3 | 1280.4 | 1295.5 | 1306.4 | 1309.2 |
| 8408.9 | 70° | 8262.6 | 7181.9 | 2399.4 | 788.0 | 801.6 | 967.2 | 1134.0 | 1149.1 | 1158.7 | 1169.6 |
| 7296.8 | 72.5° | 6440.4 | 5280.4 | 1373.4 | 637.5 | 666.2 | 838.6 | 989.0 | 1006.8 | 1012.3 | 1032.8 |
| 5077.9 | 75° | 3924.7 | 3105.3 | 741.4 | 502.0 | 547.2 | 716.8 | 845.4 | 865.9 | 875.5 | 900.1 |
| 2493.8 | 77.5° | 1865.9 | 1344.7 | 422.7 | 391.2 | 440.5 | 585.5 | 714.1 | 737.3 | 711.3 | 725.0 |
| 688.1 | 80° | 630.6 | 499.3 | 266.8 | 298.2 | 336.5 | 456.9 | 571.8 | 595.1 | 540.3 | 537.6 |
| 228.5 | 82.5° | 220.2 | 202.5 | 169.6 | 198.4 | 217.5 | 326.9 | 432.3 | 462.4 | 402.2 | 400.8 |
| 102.6 | 85° | 86.2 | 82.1 | 94.4 | 108.1 | 130.0 | 201.1 | 284.5 | 299.6 | 247.6 | 199.7 |
| 30.1 | 87.5° | 17.8 | 19.2 | 23.3 | 24.6 | 39.7 | 69.8 | 102.6 | 125.9 | 99.9 | 84.8 |
| 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> |
| 2949.3 |
| 3060.2 |
| 3221.6 |
| 3407.6 |
| 3619.7 |
| 3861.8 |
| 4160.0 |
| 4484.2 |
| 4660.7 |
| 4569.0 |
| 4322.8 |
| 4072.5 |
| 3853.6 |
| 3644.3 |
| 3418.6 |
| 3177.8 |
| 2964.4 |
| 2915.2 |
| 2783.8 |
| 2554.0 |
| 2184.7 |
| 1882.3 |
| 1779.7 |
| 1696.3 |
| 1652.5 |
| 1556.8 |
| 1445.9 |
| 1311.9 |
| 1175.1 |
| 1041.0 |
| 902.9 |
| 714.1 |
| 532.1 |
| 381.7 |
| 197.0 |
| 78.0 |
| 0.0 |

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