

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: P942882

Luminaire Tested: **GALN-SB7A-835-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942882
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-SB7A-835-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3500K, 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: 29331 lumens
Efficiency: N/A
Efficacy: 147.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

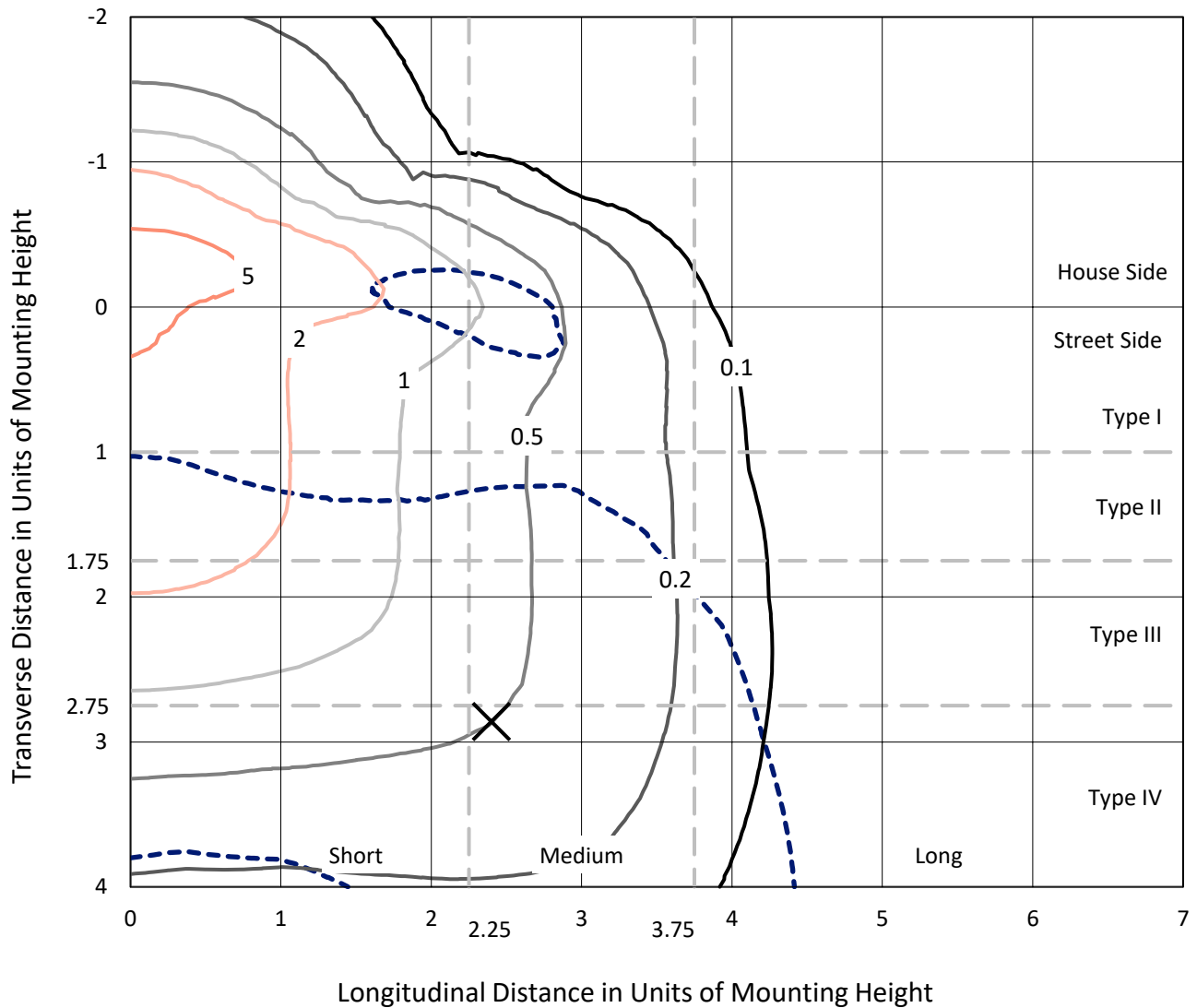
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

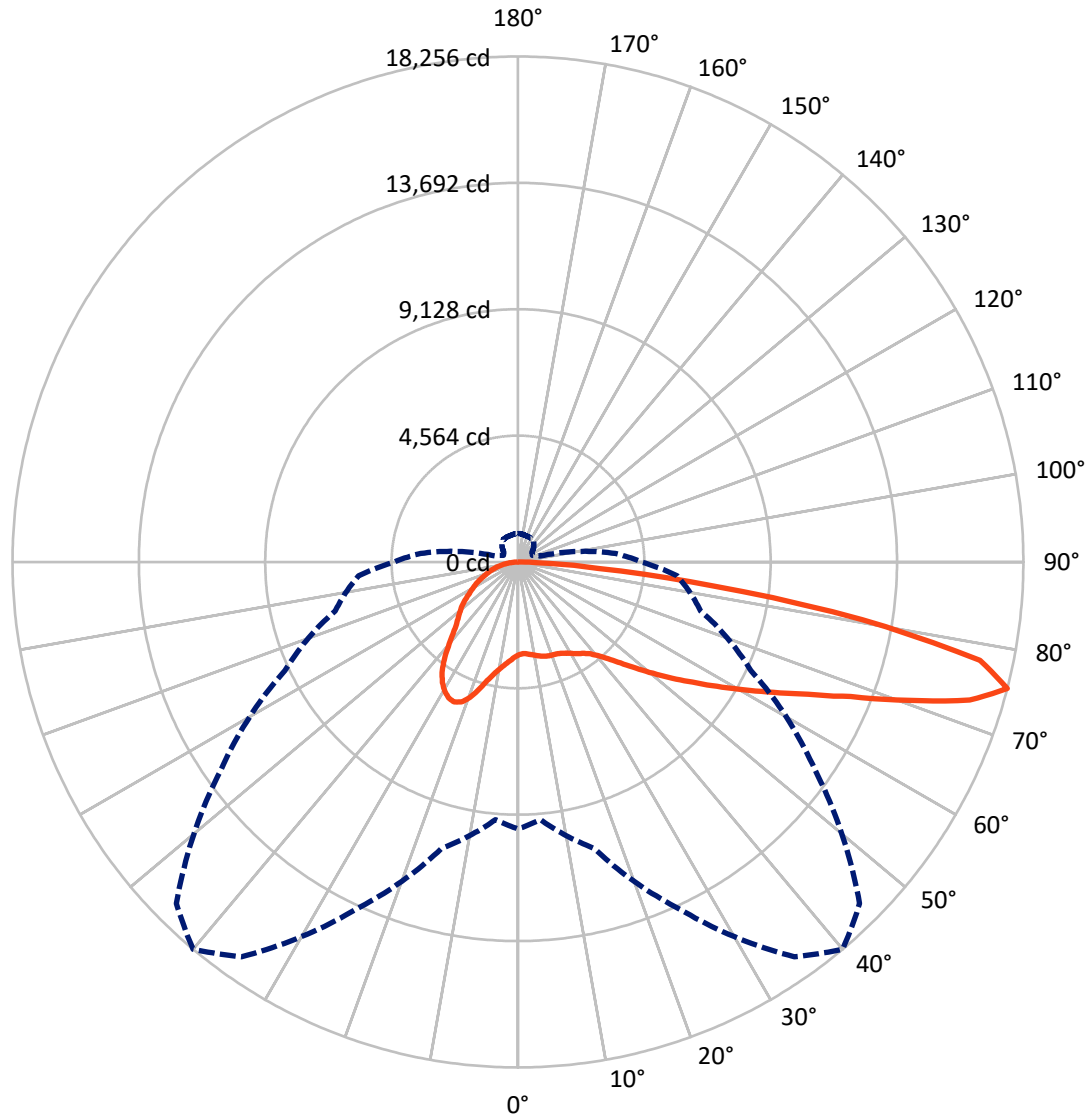
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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 | 9087.7 | 0.0 | 9087.7 |
| | % Fixture | 31.0 | 0.0 | 31.0 |
| Street Side | Lumens | 20243.3 | 0.0 | 20243.3 |
| | % Fixture | 69.0 | 0.0 | 69.0 |
| Total | Lumens | 29331.0 | 0.0 | 29331.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 334.8 | 1.1 |
| 10°-20° | 1124.1 | 3.8 |
| 20°-30° | 2052.5 | 7.0 |
| 30°-40° | 2910.9 | 9.9 |
| 40°-50° | 3930.7 | 13.4 |
| 50°-60° | 5287.8 | 18.0 |
| 60°-70° | 6711.4 | 22.9 |
| 70°-80° | 6091.0 | 20.8 |
| 80°-90° | 887.9 | 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° | 29331.0 | 100.0 |
| 0°-180° | 29331.0 | 100.0 |

Coefficient of Utilization



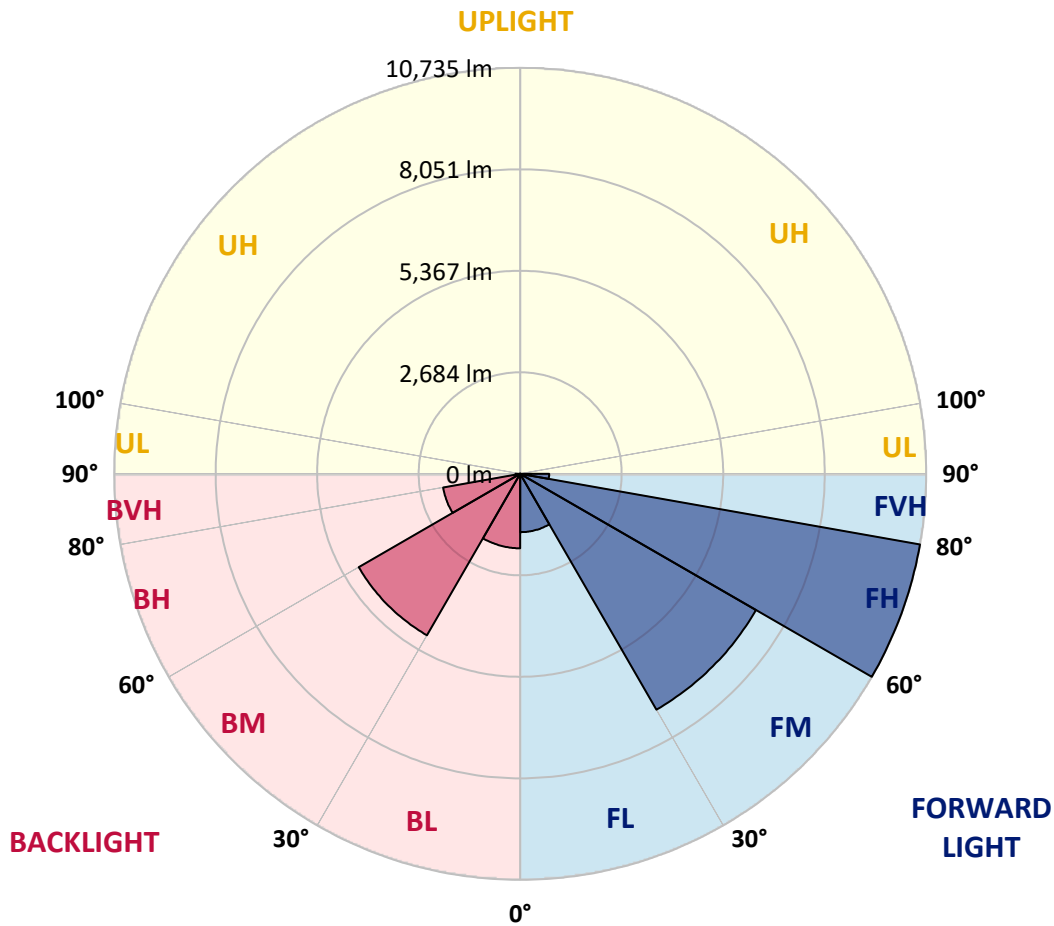
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1542.8 | 5.3 | | | |
| FM (30°-60°) | 7200.1 | 24.5 | | | |
| FH (60°-80°) | 10734.7 | 36.6 | | | G4/12000 |
| FVH (80°-90°) | 765.6 | 2.6 | | | G5 |
| BL (0°-30°) | 1968.5 | 6.7 | B3/2500 | | |
| BM (30°-60°) | 4929.3 | 16.8 | B3/5000 | | |
| BH (60°-80°) | 2067.7 | 7.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 122.2 | 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-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 40° | 45° | 55° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| 0° | 3354.0 | 3354.0 | 3354.0 | 3354.0 | 3354.0 | 3354.0 | 3354.0 | 3354.0 | 3354.0 | 3354.0 |
| 2.5° | 3302.7 | 3321.4 | 3316.7 | 3310.5 | 3310.5 | 3312.0 | 3310.5 | 3321.4 | 3332.3 | 3343.1 |
| 5° | 3336.9 | 3355.6 | 3346.3 | 3338.5 | 3332.3 | 3330.7 | 3326.0 | 3324.5 | 3330.7 | 3344.7 |
| 7.5° | 3403.8 | 3422.5 | 3408.5 | 3394.5 | 3382.0 | 3375.8 | 3369.6 | 3360.3 | 3355.6 | 3363.4 |
| 10° | 3478.5 | 3497.2 | 3480.0 | 3455.2 | 3434.9 | 3427.2 | 3420.9 | 3411.6 | 3405.4 | 3410.0 |
| 12.5° | 3553.2 | 3571.8 | 3548.5 | 3514.3 | 3487.8 | 3483.2 | 3475.4 | 3472.3 | 3470.7 | 3469.2 |
| 15° | 3623.2 | 3638.7 | 3609.2 | 3568.7 | 3540.7 | 3532.9 | 3525.2 | 3529.8 | 3537.6 | 3546.9 |
| 17.5° | 3677.6 | 3693.2 | 3649.6 | 3596.7 | 3570.3 | 3567.2 | 3562.5 | 3578.1 | 3599.8 | 3623.2 |
| 20° | 3727.4 | 3743.0 | 3687.0 | 3615.4 | 3584.3 | 3584.3 | 3585.8 | 3618.5 | 3649.6 | 3683.8 |
| 22.5° | 3797.4 | 3809.9 | 3741.4 | 3643.4 | 3598.3 | 3601.4 | 3613.8 | 3646.5 | 3685.4 | 3732.1 |
| 25° | 3901.6 | 3911.0 | 3827.0 | 3696.3 | 3645.0 | 3654.3 | 3665.2 | 3680.7 | 3718.1 | 3772.5 |
| 27.5° | 4069.7 | 4077.4 | 3967.0 | 3789.6 | 3711.8 | 3727.4 | 3743.0 | 3732.1 | 3749.2 | 3795.9 |
| 30° | 4306.1 | 4310.8 | 4170.8 | 3935.9 | 3825.4 | 3833.2 | 3836.3 | 3791.2 | 3758.5 | 3795.9 |
| 32.5° | 4586.1 | 4584.6 | 4418.1 | 4113.2 | 3954.5 | 3946.8 | 3920.3 | 3831.6 | 3755.4 | 3788.1 |
| 35° | 5020.2 | 5003.1 | 4788.4 | 4362.1 | 4100.8 | 4052.5 | 3990.3 | 3876.7 | 3771.0 | 3780.3 |
| 37.5° | 5738.9 | 5686.0 | 5388.9 | 4769.7 | 4318.6 | 4195.7 | 4103.9 | 3949.9 | 3805.2 | 3777.2 |
| 40° | 6549.4 | 6482.5 | 6155.8 | 5328.2 | 4645.3 | 4447.7 | 4299.9 | 4054.1 | 3861.2 | 3791.2 |
| 42.5° | 7510.8 | 7415.9 | 7064.3 | 5986.2 | 5059.1 | 4772.8 | 4550.4 | 4186.3 | 3943.6 | 3836.3 |
| 45° | 8691.6 | 8565.6 | 8067.7 | 6728.3 | 5580.2 | 5199.1 | 4901.9 | 4387.0 | 4069.7 | 3923.4 |
| 47.5° | 9884.8 | 9915.9 | 9208.1 | 7577.7 | 6205.6 | 5724.9 | 5342.2 | 4688.8 | 4253.2 | 4063.4 |
| 50° | 11152.6 | 11174.4 | 10342.1 | 8518.9 | 6915.0 | 6319.2 | 5836.9 | 5026.4 | 4508.4 | 4262.6 |
| 52.5° | 12142.1 | 12145.2 | 11372.0 | 9503.6 | 7653.9 | 6972.5 | 6370.5 | 5412.2 | 4803.9 | 4527.0 |
| 55° | 12761.2 | 12753.4 | 12093.8 | 10435.5 | 8503.3 | 7658.6 | 6961.7 | 5850.9 | 5164.8 | 4838.2 |
| 57.5° | 13210.8 | 13187.5 | 12591.6 | 11236.7 | 9408.7 | 8469.1 | 7630.6 | 6348.7 | 5591.1 | 5208.4 |
| 60° | 13381.9 | 13367.9 | 12929.2 | 11928.9 | 10360.8 | 9365.2 | 8402.2 | 6905.6 | 6074.9 | 5645.6 |
| 62.5° | 13447.3 | 13473.7 | 13260.6 | 12599.4 | 11379.8 | 10357.7 | 9250.1 | 7571.5 | 6619.4 | 6140.3 |
| 65° | 13677.5 | 13725.7 | 13682.2 | 13476.8 | 12531.0 | 11519.8 | 10374.8 | 8363.3 | 7213.7 | 6670.7 |
| 67.5° | 14133.3 | 14181.5 | 14200.2 | 14526.9 | 13937.3 | 12968.1 | 11778.0 | 9349.6 | 7909.1 | 7221.5 |
| 70° | 14122.4 | 14108.4 | 14438.2 | 15362.3 | 15698.3 | 14973.4 | 13669.7 | 10563.0 | 8738.2 | 7678.8 |
| 72.5° | 12854.6 | 12742.5 | 13521.9 | 15353.0 | 17163.8 | 17067.3 | 15979.9 | 12128.1 | 9453.8 | 7734.8 |
| 75° | 9643.6 | 9344.9 | 10721.7 | 13836.2 | 17408.0 | 18255.9 | 17448.5 | 13098.8 | 9284.3 | 6834.1 |
| 77.5° | 4124.1 | 3823.9 | 5446.4 | 10242.6 | 15580.1 | 17065.8 | 16101.3 | 11428.0 | 7411.2 | 4519.2 |
| 80° | 1079.6 | 1078.1 | 1645.9 | 4643.7 | 10595.7 | 12602.5 | 11056.2 | 7380.1 | 4234.6 | 1614.8 |
| 82.5° | 446.5 | 435.6 | 605.2 | 1806.1 | 5177.3 | 7072.1 | 5771.6 | 3291.8 | 1529.2 | 437.1 |
| 85° | 166.5 | 164.9 | 294.0 | 623.8 | 1826.4 | 2916.9 | 2111.1 | 841.6 | 381.1 | 213.1 |
| 87.5° | 46.7 | 45.1 | 63.8 | 216.2 | 444.9 | 675.2 | 360.9 | 138.5 | 107.3 | 84.0 |
| 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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CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3354.0 | 0° | 3354.0 | 3354.0 | 3354.0 | 3354.0 | 3354.0 | 3354.0 | 3354.0 | 3354.0 | 3354.0 | 3354.0 |
| 3360.3 | 2.5° | 3364.9 | 3372.7 | 3386.7 | 3397.6 | 3411.6 | 3427.2 | 3448.9 | 3462.9 | 3476.9 | 3486.3 |
| 3368.0 | 5° | 3378.9 | 3396.0 | 3431.8 | 3467.6 | 3509.6 | 3548.5 | 3593.6 | 3626.3 | 3652.7 | 3660.5 |
| 3396.0 | 7.5° | 3410.0 | 3438.0 | 3498.7 | 3559.4 | 3626.3 | 3690.1 | 3755.4 | 3811.4 | 3856.5 | 3873.6 |
| 3445.8 | 10° | 3464.5 | 3501.8 | 3587.4 | 3673.0 | 3761.6 | 3859.6 | 3943.6 | 4024.5 | 4088.3 | 4114.8 |
| 3504.9 | 12.5° | 3532.9 | 3579.6 | 3691.6 | 3809.9 | 3932.8 | 4068.1 | 4177.0 | 4276.6 | 4355.9 | 4391.7 |
| 3587.4 | 15° | 3621.6 | 3682.3 | 3825.4 | 3984.1 | 4164.5 | 4352.8 | 4491.2 | 4601.7 | 4690.4 | 4733.9 |
| 3673.0 | 17.5° | 3718.1 | 3799.0 | 3979.4 | 4219.0 | 4477.2 | 4724.6 | 4886.4 | 4967.3 | 5059.1 | 5101.1 |
| 3752.3 | 20° | 3811.4 | 3911.0 | 4169.2 | 4517.7 | 4861.5 | 5124.4 | 5255.1 | 5276.9 | 5283.1 | 5287.7 |
| 3827.0 | 22.5° | 3907.9 | 4041.6 | 4407.2 | 4894.2 | 5262.9 | 5444.9 | 5463.5 | 5370.2 | 5239.5 | 5178.8 |
| 3900.1 | 25° | 4013.6 | 4191.0 | 4718.4 | 5309.5 | 5608.2 | 5630.0 | 5486.9 | 5259.7 | 5012.4 | 4898.8 |
| 3959.2 | 27.5° | 4116.3 | 4363.7 | 5091.7 | 5706.2 | 5857.1 | 5665.8 | 5357.8 | 5035.7 | 4737.0 | 4617.2 |
| 4001.2 | 30° | 4219.0 | 4561.2 | 5504.0 | 6053.1 | 5970.7 | 5577.1 | 5154.0 | 4794.6 | 4494.3 | 4368.3 |
| 4038.5 | 32.5° | 4323.2 | 4791.5 | 5978.5 | 6303.6 | 5950.5 | 5388.9 | 4900.4 | 4523.9 | 4259.4 | 4127.2 |
| 4071.2 | 35° | 4441.5 | 5074.6 | 6428.1 | 6440.5 | 5815.1 | 5112.0 | 4565.9 | 4200.3 | 3970.1 | 3864.3 |
| 4110.1 | 37.5° | 4595.5 | 5434.0 | 6824.8 | 6474.7 | 5578.7 | 4705.9 | 4150.5 | 3817.6 | 3627.8 | 3579.6 |
| 4167.7 | 40° | 4786.8 | 5866.5 | 7128.1 | 6420.3 | 5228.6 | 4212.8 | 3696.3 | 3430.3 | 3322.9 | 3333.8 |
| 4245.4 | 42.5° | 5035.7 | 6350.3 | 7341.2 | 6280.3 | 4741.7 | 3704.1 | 3298.0 | 3179.8 | 3231.1 | 3274.7 |
| 4362.1 | 45° | 5359.3 | 6852.8 | 7473.5 | 6042.2 | 4191.0 | 3273.1 | 3063.1 | 3091.1 | 3130.0 | 3134.7 |
| 4550.4 | 47.5° | 5773.1 | 7361.5 | 7560.6 | 5682.9 | 3629.4 | 2969.8 | 2913.8 | 2920.0 | 2912.2 | 2879.6 |
| 4831.9 | 50° | 6289.6 | 7856.2 | 7638.4 | 5206.8 | 3151.8 | 2780.0 | 2705.3 | 2683.5 | 2576.2 | 2470.4 |
| 5206.8 | 52.5° | 6877.6 | 8310.4 | 7671.0 | 4615.7 | 2780.0 | 2621.3 | 2500.0 | 2363.1 | 2162.4 | 2129.7 |
| 5678.2 | 55° | 7531.0 | 8730.5 | 7587.0 | 3889.2 | 2467.3 | 2417.5 | 2234.0 | 2069.0 | 2047.3 | 2019.3 |
| 6298.9 | 57.5° | 8312.0 | 9183.2 | 7415.9 | 3078.7 | 2146.8 | 2179.5 | 2000.6 | 2019.3 | 1980.4 | 1936.8 |
| 7097.0 | 60° | 9166.0 | 9651.4 | 7115.7 | 2339.7 | 1815.5 | 1882.4 | 1939.9 | 1938.4 | 1927.5 | 1891.7 |
| 7938.6 | 62.5° | 9934.6 | 9959.4 | 6524.5 | 1792.1 | 1524.6 | 1652.1 | 1809.3 | 1807.7 | 1798.4 | 1778.1 |
| 8817.6 | 65° | 10391.9 | 9912.8 | 5538.2 | 1411.0 | 1285.0 | 1462.3 | 1631.9 | 1644.4 | 1645.9 | 1644.4 |
| 9478.7 | 67.5° | 10311.0 | 9366.7 | 4184.8 | 1123.2 | 1087.4 | 1269.4 | 1456.1 | 1473.2 | 1485.7 | 1488.8 |
| 9562.7 | 70° | 9396.3 | 8167.3 | 2728.7 | 896.1 | 911.6 | 1099.9 | 1289.7 | 1306.8 | 1317.7 | 1330.1 |
| 8298.0 | 72.5° | 7324.1 | 6004.9 | 1561.9 | 724.9 | 757.6 | 953.6 | 1124.8 | 1145.0 | 1151.2 | 1174.5 |
| 5774.7 | 75° | 4463.2 | 3531.4 | 843.2 | 570.9 | 622.3 | 815.2 | 961.4 | 984.7 | 995.6 | 1023.6 |
| 2836.0 | 77.5° | 2121.9 | 1529.2 | 480.7 | 444.9 | 500.9 | 665.8 | 812.1 | 838.5 | 809.0 | 824.5 |
| 782.5 | 80° | 717.2 | 567.8 | 303.4 | 339.1 | 382.7 | 519.6 | 650.3 | 676.7 | 614.5 | 611.4 |
| 259.8 | 82.5° | 250.5 | 230.2 | 192.9 | 225.6 | 247.4 | 371.8 | 491.6 | 525.8 | 457.4 | 455.8 |
| 116.7 | 85° | 98.0 | 93.3 | 107.3 | 122.9 | 147.8 | 228.7 | 323.6 | 340.7 | 281.6 | 227.1 |
| 34.2 | 87.5° | 20.2 | 21.8 | 26.4 | 28.0 | 45.1 | 79.3 | 116.7 | 143.1 | 113.6 | 96.5 |
| 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> |
|-------------|
| 3354.0 |
| 3480.0 |
| 3663.6 |
| 3875.2 |
| 4116.3 |
| 4391.7 |
| 4730.8 |
| 5099.5 |
| 5300.2 |
| 5196.0 |
| 4915.9 |
| 4631.2 |
| 4382.3 |
| 4144.3 |
| 3887.6 |
| 3613.8 |
| 3371.2 |
| 3315.1 |
| 3165.8 |
| 2904.4 |
| 2484.4 |
| 2140.6 |
| 2023.9 |
| 1929.0 |
| 1879.3 |
| 1770.4 |
| 1644.4 |
| 1491.9 |
| 1336.3 |
| 1183.9 |
| 1026.7 |
| 812.1 |
| 605.2 |
| 434.0 |
| 224.0 |
| 88.7 |
| 0.0 |

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