

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: P956458

Luminaire Tested: **GALN-SB9A-835-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956458
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-SB9A-835-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 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: 28963 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

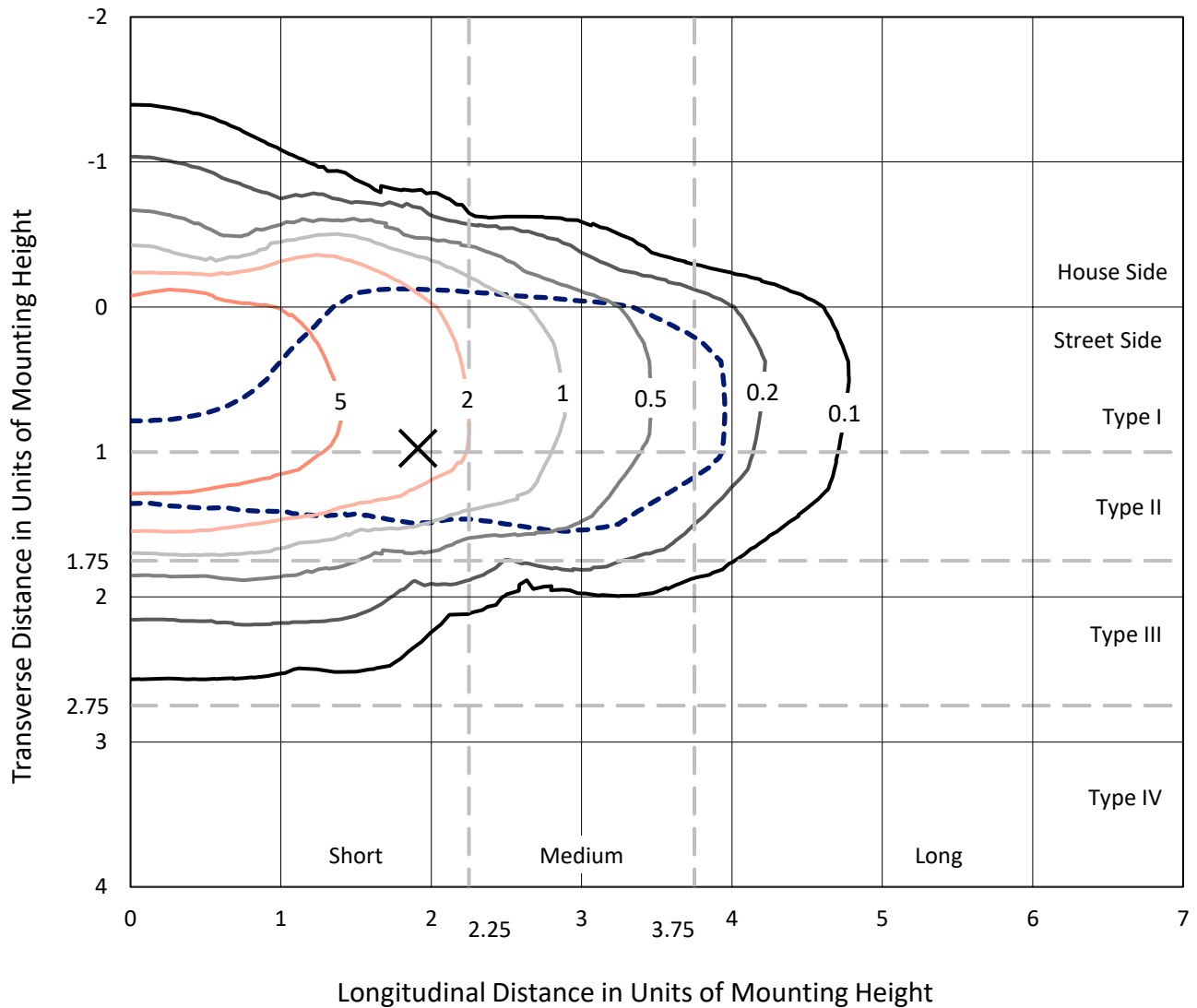
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

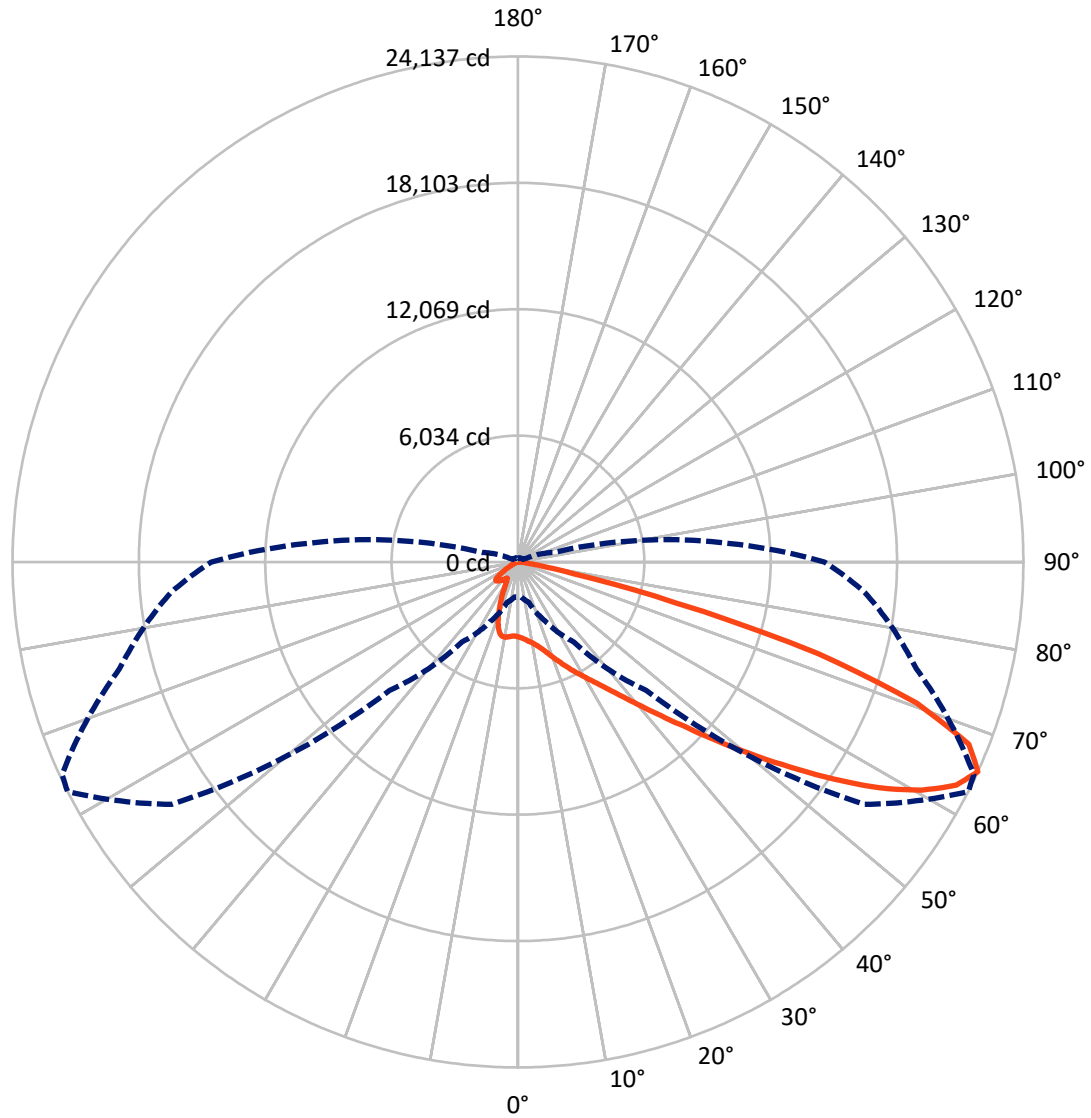
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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 | 4257.3 | 0.0 | 4257.3 |
| | % Fixture | 14.7 | 0.0 | 14.7 |
| Street Side | Lumens | 24705.7 | 0.0 | 24705.7 |
| | % Fixture | 85.3 | 0.0 | 85.3 |
| Total | Lumens | 28963.0 | 0.0 | 28963.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 336.8 | 1.2 |
| 10°-20° | 934.5 | 3.2 |
| 20°-30° | 1627.2 | 5.6 |
| 30°-40° | 2932.8 | 10.1 |
| 40°-50° | 5816.7 | 20.1 |
| 50°-60° | 7923.3 | 27.4 |
| 60°-70° | 6324.3 | 21.8 |
| 70°-80° | 2861.9 | 9.9 |
| 80°-90° | 205.7 | 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° | 28963.0 | 100.0 |
| 0°-180° | 28963.0 | 100.0 |

Coefficient of Utilization

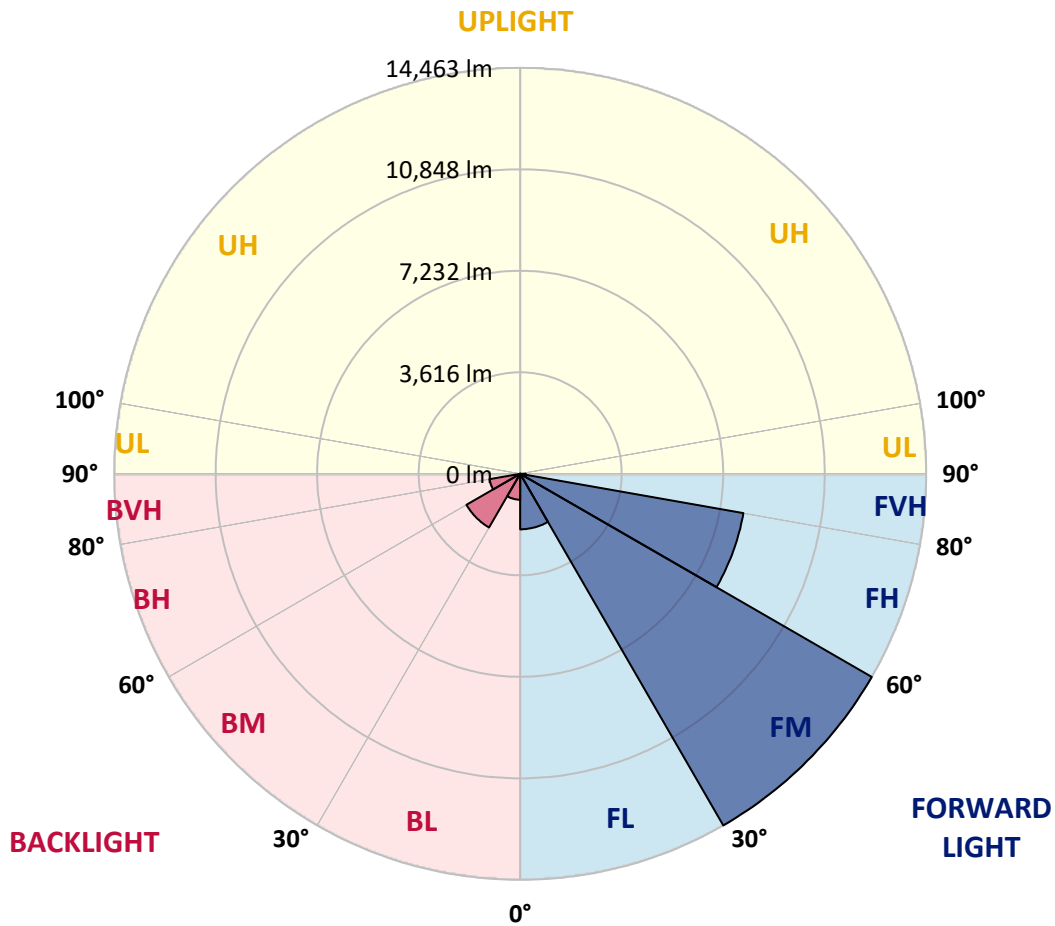


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1977.1 | 6.8 | | | |
| FM (30°-60°) | 14463.4 | 49.9 | | | |
| FH (60°-80°) | 8074.7 | 27.9 | | | G4/12000 |
| FVH (80°-90°) | 190.4 | 0.7 | | | G2/225 |
| BL (0°-30°) | 921.4 | 3.2 | B2/1000 | | |
| BM (30°-60°) | 2209.3 | 7.6 | B2/2500 | | |
| BH (60°-80°) | 1111.4 | 3.8 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 15.3 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4
 Type II Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 63° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3574.6 | 3574.6 | 3574.6 | 3574.6 | 3574.6 | 3574.6 | 3574.6 | 3574.6 | 3574.6 | 3574.6 |
| 2.5° | 3658.3 | 3648.3 | 3662.3 | 3656.3 | 3652.3 | 3644.3 | 3640.3 | 3636.3 | 3628.4 | 3622.4 |
| 5° | 3668.2 | 3662.3 | 3676.2 | 3688.2 | 3700.1 | 3712.1 | 3718.0 | 3726.0 | 3718.0 | 3702.1 |
| 7.5° | 3584.5 | 3580.6 | 3610.4 | 3646.3 | 3700.1 | 3745.9 | 3795.8 | 3823.6 | 3825.6 | 3819.7 |
| 10° | 3578.6 | 3568.6 | 3598.5 | 3642.3 | 3712.1 | 3793.8 | 3881.4 | 3941.2 | 3949.2 | 3975.1 |
| 12.5° | 3672.2 | 3662.3 | 3704.1 | 3751.9 | 3823.6 | 3909.3 | 4016.9 | 4100.6 | 4112.6 | 4148.4 |
| 15° | 3829.6 | 3815.7 | 3863.5 | 3925.3 | 4016.9 | 4114.6 | 4228.1 | 4303.8 | 4313.8 | 4357.6 |
| 17.5° | 4012.9 | 3999.0 | 4054.8 | 4120.5 | 4220.2 | 4353.7 | 4485.2 | 4568.8 | 4580.8 | 4608.7 |
| 20° | 4248.1 | 4230.1 | 4274.0 | 4333.7 | 4439.3 | 4598.7 | 4756.1 | 4875.7 | 4873.7 | 4873.7 |
| 22.5° | 4521.0 | 4493.1 | 4531.0 | 4578.8 | 4678.4 | 4871.7 | 5080.9 | 5222.4 | 5222.4 | 5166.6 |
| 25° | 4813.9 | 4786.0 | 4827.9 | 4871.7 | 4959.4 | 5178.6 | 5423.6 | 5599.0 | 5607.0 | 5511.3 |
| 27.5° | 5180.6 | 5144.7 | 5176.6 | 5228.4 | 5280.2 | 5503.3 | 5794.2 | 5997.5 | 6001.5 | 5854.0 |
| 30° | 5885.9 | 5784.3 | 5684.7 | 5628.9 | 5652.8 | 5873.9 | 6184.8 | 6409.9 | 6429.9 | 6226.6 |
| 32.5° | 7177.1 | 7157.1 | 6806.4 | 6348.2 | 6109.1 | 6272.5 | 6621.1 | 6892.1 | 6904.1 | 6643.1 |
| 35° | 9183.5 | 9159.6 | 8595.7 | 7723.0 | 6943.9 | 6806.4 | 7151.2 | 7472.0 | 7464.0 | 7169.1 |
| 37.5° | 11578.5 | 11556.6 | 10813.4 | 9645.8 | 8384.5 | 7613.4 | 7834.6 | 8171.3 | 8221.1 | 7834.6 |
| 40° | 13624.9 | 13543.2 | 13072.9 | 11947.2 | 10297.3 | 8952.4 | 8806.9 | 9030.1 | 9081.9 | 8623.6 |
| 42.5° | 15175.0 | 15105.3 | 14866.2 | 14162.8 | 12612.7 | 10933.0 | 9952.6 | 10038.3 | 10096.1 | 9546.2 |
| 45° | 15978.0 | 15962.1 | 16057.7 | 15992.0 | 14971.8 | 13363.8 | 11590.5 | 11233.8 | 11255.7 | 10568.3 |
| 47.5° | 16091.6 | 16083.6 | 16520.0 | 17137.7 | 17000.2 | 16105.5 | 13692.6 | 12724.2 | 12646.5 | 11722.0 |
| 50° | 15422.1 | 15406.2 | 16243.0 | 17400.7 | 18355.1 | 18408.9 | 16079.6 | 14403.9 | 14232.6 | 12915.5 |
| 52.5° | 13284.1 | 13280.1 | 14655.0 | 16581.8 | 18831.3 | 20425.3 | 18438.8 | 16249.0 | 15962.1 | 14178.8 |
| 55° | 10221.6 | 10295.4 | 11871.4 | 14148.9 | 17962.6 | 21395.7 | 20556.8 | 18297.3 | 17857.0 | 15450.0 |
| 57.5° | 7240.8 | 7348.4 | 8906.6 | 10935.0 | 15268.7 | 20821.8 | 21989.5 | 20349.6 | 19875.4 | 16717.2 |
| 60° | 3889.4 | 3985.0 | 5545.2 | 7966.1 | 11359.4 | 18681.9 | 22744.6 | 22130.9 | 21682.6 | 17920.7 |
| 62.5° | 2317.3 | 2349.2 | 2994.8 | 5142.7 | 7683.2 | 14272.4 | 22423.8 | 23487.8 | 23119.2 | 18930.9 |
| 65° | 1663.8 | 1669.7 | 1994.5 | 3140.2 | 4664.5 | 8671.4 | 20174.3 | 24137.4 | 24023.8 | 19692.1 |
| 67.5° | 1400.7 | 1396.8 | 1532.2 | 2086.2 | 3178.1 | 4343.7 | 15462.0 | 23218.8 | 23701.0 | 20174.3 |
| 70° | 1201.5 | 1207.5 | 1366.9 | 1528.3 | 2389.0 | 2458.8 | 7687.1 | 20216.1 | 21244.3 | 20301.8 |
| 72.5° | 894.6 | 914.6 | 1062.0 | 1392.8 | 1803.2 | 1691.6 | 2654.0 | 14989.7 | 16848.8 | 19128.2 |
| 75° | 631.6 | 641.6 | 747.2 | 1171.6 | 1345.0 | 1231.4 | 1354.9 | 7748.9 | 10132.0 | 14664.9 |
| 77.5° | 486.2 | 504.1 | 565.9 | 818.9 | 1325.0 | 864.8 | 828.9 | 2681.9 | 4120.5 | 8858.7 |
| 80° | 263.0 | 294.9 | 408.5 | 591.8 | 930.5 | 611.7 | 410.5 | 1068.0 | 1396.8 | 4142.4 |
| 82.5° | 135.5 | 151.4 | 284.9 | 426.4 | 530.0 | 534.0 | 203.2 | 444.3 | 575.8 | 1279.2 |
| 85° | 53.8 | 65.8 | 191.3 | 235.1 | 273.0 | 263.0 | 91.7 | 179.3 | 207.2 | 354.7 |
| 87.5° | 12.0 | 19.9 | 69.7 | 53.8 | 51.8 | 55.8 | 21.9 | 41.8 | 39.9 | 41.8 |
| 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° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3574.6 | 0° | 3574.6 | 3574.6 | 3574.6 | 3574.6 | 3574.6 | 3574.6 | 3574.6 | 3574.6 | 3574.6 | 3574.6 |
| 3598.5 | 2.5° | 3596.5 | 3588.5 | 3566.6 | 3542.7 | 3514.8 | 3498.9 | 3488.9 | 3486.9 | 3473.0 | 3463.0 |
| 3678.2 | 5° | 3656.3 | 3648.3 | 3606.5 | 3556.6 | 3502.9 | 3461.0 | 3421.2 | 3385.3 | 3333.5 | 3323.5 |
| 3793.8 | 7.5° | 3775.8 | 3753.9 | 3686.2 | 3618.4 | 3516.8 | 3395.3 | 3247.8 | 3078.4 | 2927.0 | 2881.2 |
| 3947.2 | 10° | 3923.3 | 3893.4 | 3807.7 | 3688.2 | 3463.0 | 3132.2 | 2775.6 | 2444.8 | 2181.8 | 2108.1 |
| 4128.5 | 12.5° | 4090.6 | 4064.7 | 3951.2 | 3730.0 | 3237.8 | 2638.1 | 2092.1 | 1681.7 | 1426.6 | 1362.9 |
| 4321.8 | 15° | 4289.9 | 4252.0 | 4094.6 | 3666.2 | 2835.4 | 2004.5 | 1436.6 | 1193.5 | 1101.9 | 1089.9 |
| 4542.9 | 17.5° | 4501.1 | 4439.3 | 4222.2 | 3437.1 | 2293.4 | 1424.7 | 1109.8 | 1040.1 | 1000.2 | 988.3 |
| 4766.1 | 20° | 4694.4 | 4614.7 | 4297.9 | 3090.4 | 1713.6 | 1109.8 | 994.3 | 948.4 | 912.6 | 898.6 |
| 4989.3 | 22.5° | 4887.7 | 4774.1 | 4297.9 | 2618.2 | 1285.2 | 984.3 | 912.6 | 870.7 | 828.9 | 811.0 |
| 5228.4 | 25° | 5088.9 | 4937.5 | 4222.2 | 2092.1 | 1034.1 | 902.6 | 834.9 | 789.0 | 753.2 | 731.3 |
| 5455.5 | 27.5° | 5284.2 | 5074.9 | 4048.8 | 1594.0 | 920.5 | 830.9 | 763.1 | 719.3 | 685.4 | 669.5 |
| 5702.6 | 30° | 5469.5 | 5210.4 | 3805.7 | 1209.5 | 846.8 | 761.1 | 697.4 | 659.5 | 625.7 | 609.7 |
| 6023.4 | 32.5° | 5720.5 | 5381.8 | 3546.7 | 992.3 | 783.1 | 695.4 | 637.6 | 601.7 | 571.9 | 559.9 |
| 6439.8 | 35° | 6069.2 | 5634.8 | 3323.5 | 974.3 | 729.3 | 641.6 | 583.8 | 549.9 | 520.0 | 510.1 |
| 6977.8 | 37.5° | 6563.4 | 6043.3 | 3206.0 | 1093.9 | 685.4 | 593.8 | 540.0 | 504.1 | 476.2 | 468.2 |
| 7661.2 | 40° | 7173.1 | 6597.2 | 3269.7 | 1213.4 | 655.5 | 551.9 | 500.1 | 464.3 | 440.3 | 430.4 |
| 8446.3 | 42.5° | 7896.4 | 7280.7 | 3622.4 | 1305.1 | 635.6 | 516.1 | 462.3 | 422.4 | 406.5 | 402.5 |
| 9337.0 | 45° | 8727.2 | 8031.8 | 4162.4 | 1402.7 | 603.7 | 482.2 | 424.4 | 394.5 | 382.6 | 380.6 |
| 10305.3 | 47.5° | 9671.7 | 8856.8 | 4788.0 | 1524.3 | 571.9 | 450.3 | 394.5 | 374.6 | 364.6 | 360.6 |
| 11315.5 | 50° | 10608.2 | 9687.6 | 5431.6 | 1592.0 | 546.0 | 420.4 | 370.6 | 354.7 | 346.7 | 344.7 |
| 12383.5 | 52.5° | 11588.5 | 10542.4 | 5951.7 | 1528.3 | 524.0 | 396.5 | 350.7 | 338.7 | 330.8 | 328.8 |
| 13367.8 | 55° | 12523.0 | 11233.8 | 6041.3 | 1297.1 | 480.2 | 372.6 | 328.8 | 322.8 | 312.8 | 312.8 |
| 14366.1 | 57.5° | 13328.0 | 11580.5 | 5407.7 | 952.4 | 436.4 | 336.7 | 306.8 | 300.9 | 292.9 | 290.9 |
| 15266.7 | 60° | 14067.2 | 11480.9 | 4174.3 | 641.6 | 388.5 | 300.9 | 279.0 | 275.0 | 267.0 | 257.0 |
| 16049.8 | 62.5° | 14483.6 | 11042.5 | 2855.3 | 418.4 | 340.7 | 263.0 | 247.1 | 245.1 | 227.1 | 207.2 |
| 16629.6 | 65° | 14641.0 | 10141.9 | 1781.3 | 304.9 | 284.9 | 225.2 | 213.2 | 209.2 | 183.3 | 161.4 |
| 16958.3 | 67.5° | 14503.6 | 8659.5 | 898.6 | 241.1 | 225.2 | 187.3 | 175.3 | 175.3 | 157.4 | 137.5 |
| 16938.4 | 70° | 13953.6 | 6491.6 | 378.6 | 193.3 | 173.3 | 143.5 | 143.5 | 151.4 | 133.5 | 111.6 |
| 16059.7 | 72.5° | 12760.1 | 4367.6 | 201.2 | 147.4 | 129.5 | 101.6 | 117.6 | 123.5 | 105.6 | 83.7 |
| 13144.7 | 75° | 10143.9 | 2664.0 | 139.5 | 109.6 | 81.7 | 71.7 | 89.7 | 93.6 | 71.7 | 55.8 |
| 9012.2 | 77.5° | 6938.0 | 1530.3 | 93.6 | 69.7 | 51.8 | 41.8 | 61.8 | 57.8 | 37.9 | 25.9 |
| 3475.0 | 80° | 3046.6 | 637.6 | 53.8 | 31.9 | 19.9 | 15.9 | 21.9 | 15.9 | 12.0 | 8.0 |
| 476.2 | 82.5° | 356.7 | 149.4 | 19.9 | 12.0 | 8.0 | 4.0 | 2.0 | 0.0 | 0.0 | 0.0 |
| 145.5 | 85° | 73.7 | 17.9 | 10.0 | 4.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 25.9 | 87.5° | 13.9 | 4.0 | 2.0 | 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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| |
|--------|
| 180° |
| 3574.6 |
| 3473.0 |
| 3319.5 |
| 2859.3 |
| 2080.2 |
| 1345.0 |
| 1078.0 |
| 982.3 |
| 890.7 |
| 801.0 |
| 723.3 |
| 669.5 |
| 611.7 |
| 559.9 |
| 510.1 |
| 466.2 |
| 428.4 |
| 402.5 |
| 378.6 |
| 360.6 |
| 344.7 |
| 328.8 |
| 310.8 |
| 288.9 |
| 255.0 |
| 203.2 |
| 159.4 |
| 135.5 |
| 109.6 |
| 83.7 |
| 53.8 |
| 27.9 |
| 8.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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