

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: P955159

Luminaire Tested: **GALN-SB8A-940-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955159
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8A-940-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26984 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

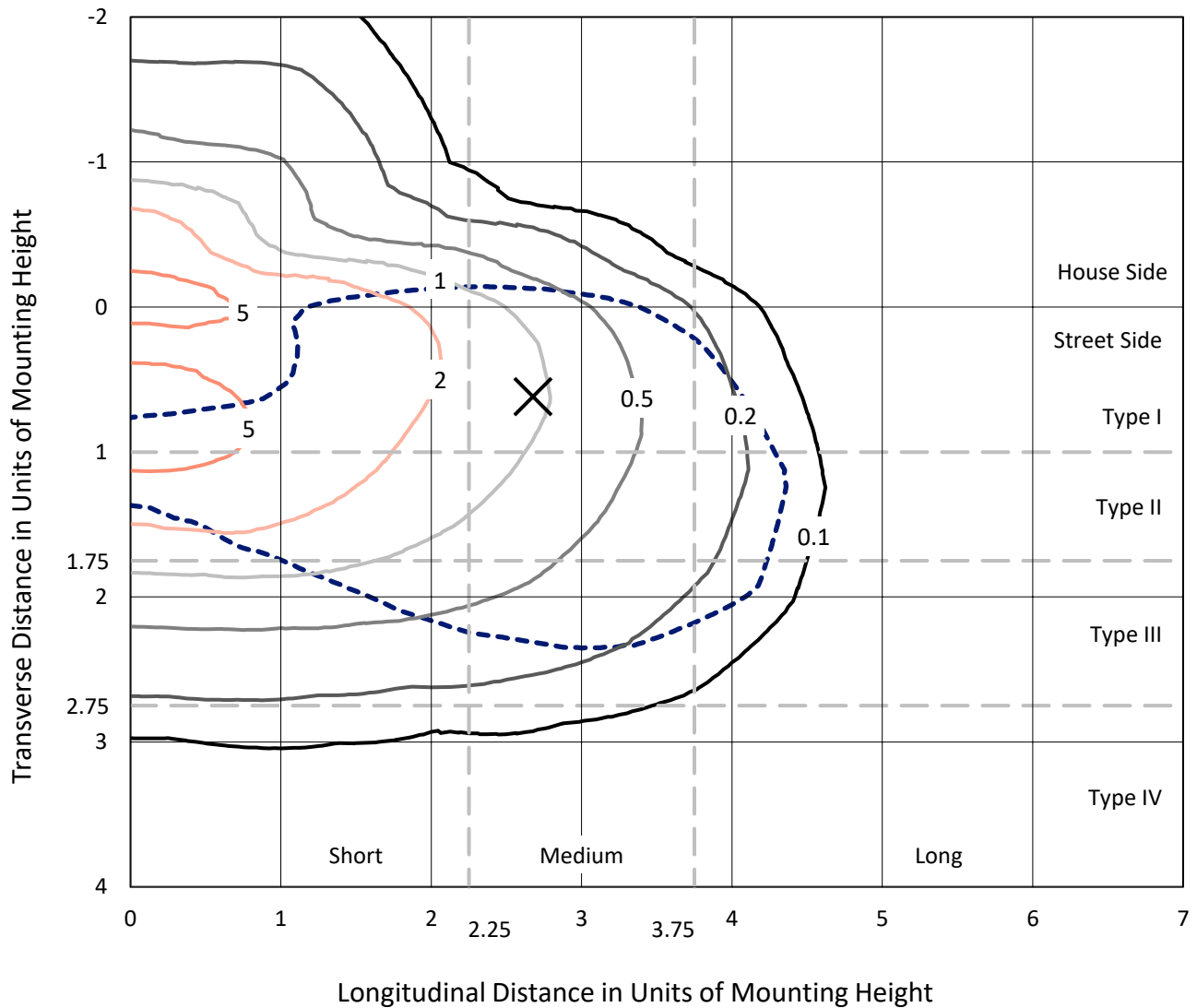
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

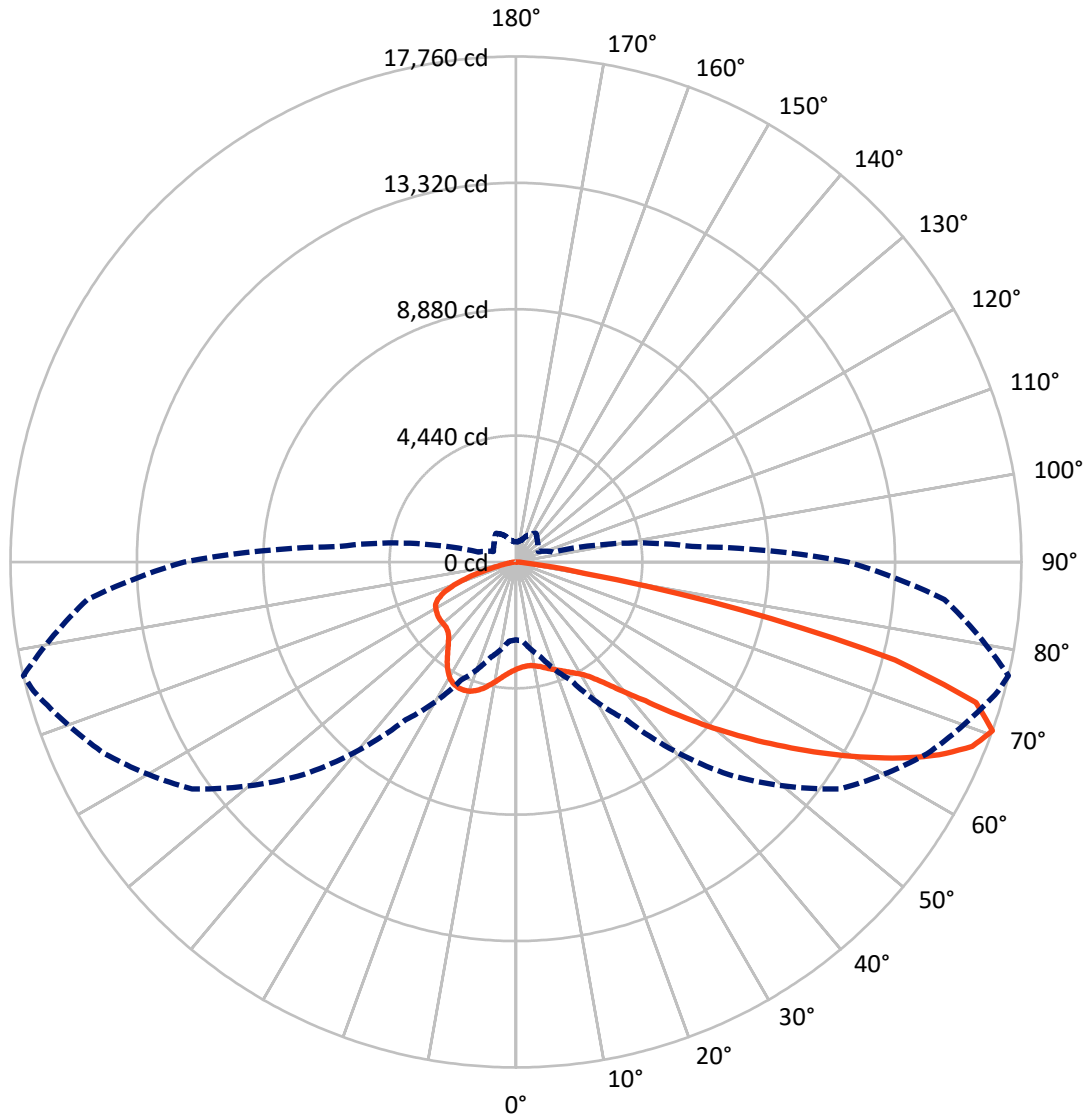
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5909.1 | 0.0 | 5909.1 |
| | % Fixture | 21.9 | 0.0 | 21.9 |
| Street Side | Lumens | 21074.9 | 0.0 | 21074.9 |
| | % Fixture | 78.1 | 0.0 | 78.1 |
| Total | Lumens | 26984.0 | 0.0 | 26984.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 359.0 | 1.3 |
| 10°-20° | 1036.2 | 3.8 |
| 20°-30° | 1772.1 | 6.6 |
| 30°-40° | 2849.6 | 10.6 |
| 40°-50° | 4449.0 | 16.5 |
| 50°-60° | 5942.9 | 22.0 |
| 60°-70° | 6334.2 | 23.5 |
| 70°-80° | 3899.3 | 14.5 |
| 80°-90° | 341.7 | 1.3 |
| 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° | 26984.0 | 100.0 |
| 0°-180° | 26984.0 | 100.0 |

Coefficient of Utilization



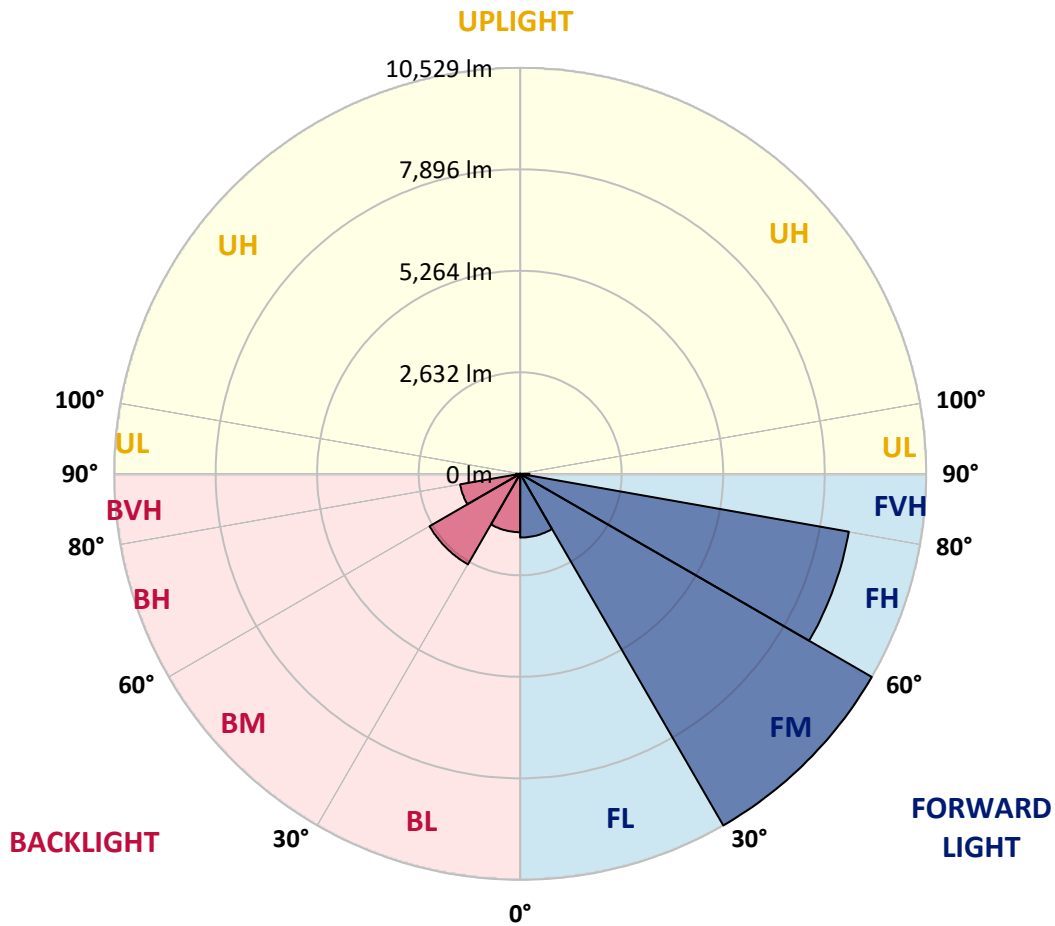
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1653.2 | 6.1 | | | |
| FM (30°-60°) | 10528.6 | 39.0 | | | |
| FH (60°-80°) | 8654.2 | 32.1 | | | G4/12000 |
| FVH (80°-90°) | 238.9 | 0.9 | | | G3/500 |
| BL (0°-30°) | 1514.1 | 5.6 | B3/2500 | | |
| BM (30°-60°) | 2713.0 | 10.1 | B3/5000 | | |
| BH (60°-80°) | 1579.2 | 5.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 102.8 | 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 III Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3764.5 | 3764.5 | 3764.5 | 3764.5 | 3764.5 | 3764.5 | 3764.5 | 3764.5 | 3764.5 | 3764.5 |
| 2.5° | 3470.2 | 3468.8 | 3486.7 | 3492.3 | 3525.4 | 3548.9 | 3593.1 | 3640.1 | 3700.9 | 3707.9 |
| 5° | 3269.8 | 3269.8 | 3290.5 | 3312.6 | 3355.4 | 3402.4 | 3470.2 | 3551.7 | 3656.7 | 3673.3 |
| 7.5° | 3099.8 | 3110.8 | 3128.8 | 3171.6 | 3221.4 | 3289.1 | 3392.8 | 3508.8 | 3647.0 | 3673.3 |
| 10° | 2963.0 | 2975.4 | 2997.5 | 3032.1 | 3106.7 | 3200.7 | 3336.1 | 3485.4 | 3670.5 | 3712.0 |
| 12.5° | 2920.1 | 2932.6 | 2945.0 | 2971.3 | 3040.4 | 3150.9 | 3312.6 | 3496.4 | 3727.2 | 3768.7 |
| 15° | 3019.6 | 3034.8 | 3025.2 | 3018.2 | 3054.2 | 3155.1 | 3323.7 | 3536.5 | 3797.7 | 3857.1 |
| 17.5° | 3249.0 | 3254.6 | 3232.5 | 3167.5 | 3162.0 | 3215.9 | 3376.2 | 3591.8 | 3886.1 | 3951.1 |
| 20° | 3619.4 | 3609.7 | 3564.1 | 3435.6 | 3362.4 | 3351.3 | 3466.0 | 3674.7 | 3977.3 | 4046.4 |
| 22.5° | 4122.4 | 4111.4 | 4020.2 | 3817.0 | 3654.0 | 3546.2 | 3595.9 | 3782.5 | 4079.6 | 4157.0 |
| 25° | 4749.9 | 4734.7 | 4600.6 | 4324.2 | 4071.3 | 3804.6 | 3772.8 | 3924.8 | 4205.4 | 4277.2 |
| 27.5° | 5482.3 | 5469.9 | 5324.8 | 4959.9 | 4595.1 | 4158.4 | 3992.5 | 4092.0 | 4336.7 | 4418.2 |
| 30° | 6270.0 | 6306.0 | 6048.9 | 5656.4 | 5194.9 | 4620.0 | 4288.3 | 4298.0 | 4506.6 | 4579.9 |
| 32.5° | 7196.0 | 7258.2 | 6948.6 | 6451.1 | 5820.9 | 5121.6 | 4661.4 | 4585.4 | 4754.0 | 4814.8 |
| 35° | 8113.6 | 8184.1 | 7927.0 | 7377.0 | 6651.5 | 5713.1 | 5051.1 | 4915.7 | 5082.9 | 5149.3 |
| 37.5° | 8906.9 | 9000.8 | 8868.2 | 8390.0 | 7540.1 | 6426.2 | 5559.7 | 5304.0 | 5487.8 | 5570.8 |
| 40° | 9532.9 | 9676.6 | 9667.0 | 9368.4 | 8587.6 | 7291.3 | 6205.1 | 5783.6 | 5990.9 | 6080.7 |
| 42.5° | 10041.5 | 10165.8 | 10273.6 | 10258.4 | 9680.8 | 8273.9 | 6963.8 | 6406.9 | 6564.4 | 6668.1 |
| 45° | 10392.5 | 10525.2 | 10757.3 | 11007.5 | 10732.5 | 9325.6 | 7833.1 | 7146.2 | 7289.9 | 7446.1 |
| 47.5° | 10706.2 | 10856.8 | 11158.1 | 11554.7 | 11625.2 | 10381.4 | 8785.2 | 8007.2 | 8138.5 | 8300.2 |
| 50° | 10733.8 | 10863.7 | 11330.9 | 11893.3 | 12259.5 | 11395.8 | 9807.9 | 8973.2 | 9096.2 | 9268.9 |
| 52.5° | 10066.3 | 10270.9 | 11086.2 | 11883.6 | 12551.1 | 12244.3 | 10823.7 | 9977.9 | 10116.1 | 10323.4 |
| 55° | 7813.7 | 8113.6 | 10369.0 | 11513.3 | 12447.5 | 12793.0 | 11789.7 | 11046.2 | 11223.1 | 11440.0 |
| 57.5° | 6730.2 | 6861.5 | 8231.1 | 10838.9 | 11974.9 | 12935.3 | 12605.0 | 12125.5 | 12410.2 | 12647.9 |
| 60° | 6048.9 | 6158.1 | 6967.9 | 9789.9 | 11353.0 | 12710.1 | 13235.2 | 13131.6 | 13623.6 | 13906.9 |
| 62.5° | 5319.2 | 5422.9 | 6159.5 | 8174.4 | 10556.9 | 12335.6 | 13633.2 | 14060.3 | 14867.3 | 15176.9 |
| 65° | 4595.1 | 4683.5 | 5389.7 | 6868.4 | 9545.3 | 11961.0 | 13839.2 | 14863.2 | 16018.5 | 16339.2 |
| 67.5° | 3788.0 | 3861.3 | 4528.7 | 5794.6 | 8315.4 | 11448.3 | 13941.4 | 15494.8 | 17020.5 | 17295.5 |
| 70° | 2733.6 | 2790.2 | 3479.8 | 4582.6 | 6771.7 | 10566.6 | 13900.0 | 15942.5 | 17540.1 | 17759.8 |
| 72.5° | 1292.2 | 1343.3 | 2153.1 | 2975.4 | 4783.0 | 8850.2 | 13061.1 | 15587.4 | 17012.2 | 16903.0 |
| 75° | 689.6 | 733.8 | 1236.9 | 1632.1 | 2526.3 | 6066.9 | 10688.2 | 13427.3 | 14285.5 | 13754.8 |
| 77.5° | 467.1 | 501.7 | 765.6 | 979.8 | 1154.0 | 2880.0 | 6869.8 | 9296.6 | 8944.2 | 8068.0 |
| 80° | 370.4 | 406.3 | 627.4 | 663.4 | 558.3 | 1040.6 | 2838.6 | 4303.5 | 3091.5 | 2472.4 |
| 82.5° | 284.7 | 324.8 | 527.9 | 480.9 | 304.0 | 427.0 | 826.4 | 1361.3 | 791.9 | 602.5 |
| 85° | 174.1 | 217.0 | 414.6 | 306.8 | 171.4 | 194.9 | 280.5 | 378.7 | 241.8 | 201.8 |
| 87.5° | 88.4 | 124.4 | 210.1 | 111.9 | 77.4 | 45.6 | 74.6 | 74.6 | 63.6 | 55.3 |
| 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° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3764.5 | 0° | 3764.5 | 3764.5 | 3764.5 | 3764.5 | 3764.5 | 3764.5 | 3764.5 | 3764.5 | 3764.5 | 3764.5 |
| 3745.2 | 2.5° | 3778.3 | 3806.0 | 3853.0 | 3897.2 | 3931.7 | 3964.9 | 3998.1 | 4016.0 | 4021.6 | 4043.7 |
| 3765.9 | 5° | 3822.6 | 3873.7 | 3964.9 | 4050.6 | 4104.5 | 4137.6 | 4161.1 | 4175.0 | 4177.7 | 4184.6 |
| 3822.6 | 7.5° | 3904.1 | 3985.6 | 4112.8 | 4198.5 | 4238.5 | 4235.8 | 4226.1 | 4191.5 | 4177.7 | 4165.3 |
| 3905.5 | 10° | 4018.8 | 4126.6 | 4282.8 | 4342.2 | 4317.3 | 4251.0 | 4165.3 | 4064.4 | 4017.4 | 3971.8 |
| 4018.8 | 12.5° | 4161.1 | 4298.0 | 4451.4 | 4448.6 | 4325.6 | 4155.6 | 3956.6 | 3801.8 | 3703.7 | 3633.2 |
| 4158.4 | 15° | 4333.9 | 4491.4 | 4608.9 | 4514.9 | 4245.4 | 3940.0 | 3648.4 | 3446.7 | 3358.2 | 3280.8 |
| 4299.3 | 17.5° | 4512.2 | 4680.8 | 4734.7 | 4494.2 | 4043.7 | 3620.8 | 3290.5 | 3131.6 | 3044.5 | 3003.0 |
| 4451.4 | 20° | 4686.3 | 4853.5 | 4809.3 | 4375.3 | 3736.9 | 3258.7 | 2964.3 | 2877.3 | 2859.3 | 2869.0 |
| 4599.2 | 22.5° | 4870.1 | 5019.4 | 4824.5 | 4145.9 | 3345.8 | 2888.3 | 2726.6 | 2729.4 | 2769.5 | 2798.5 |
| 4754.0 | 25° | 5058.0 | 5158.9 | 4784.4 | 3814.3 | 2925.7 | 2616.1 | 2576.0 | 2620.2 | 2699.0 | 2755.7 |
| 4928.1 | 27.5° | 5239.1 | 5283.3 | 4697.4 | 3403.8 | 2565.0 | 2421.2 | 2428.1 | 2519.3 | 2638.2 | 2717.0 |
| 5139.6 | 30° | 5443.6 | 5393.9 | 4530.1 | 2942.2 | 2314.8 | 2254.0 | 2312.1 | 2418.5 | 2537.3 | 2607.8 |
| 5406.3 | 32.5° | 5674.4 | 5489.2 | 4264.8 | 2515.2 | 2137.9 | 2120.0 | 2215.3 | 2284.4 | 2336.9 | 2357.7 |
| 5760.1 | 35° | 5961.9 | 5623.3 | 3924.8 | 2215.3 | 1979.0 | 2021.8 | 2113.0 | 2078.5 | 2057.8 | 2046.7 |
| 6235.5 | 37.5° | 6335.0 | 5804.3 | 3526.8 | 2020.5 | 1850.5 | 1951.4 | 1988.7 | 1880.9 | 1799.3 | 1759.3 |
| 6811.8 | 40° | 6784.1 | 6069.7 | 3144.0 | 1869.8 | 1768.9 | 1890.5 | 1825.6 | 1695.7 | 1592.0 | 1535.4 |
| 7459.9 | 42.5° | 7283.0 | 6347.4 | 2822.0 | 1756.5 | 1723.3 | 1840.8 | 1705.4 | 1550.6 | 1383.4 | 1365.4 |
| 8232.5 | 45° | 7806.8 | 6633.5 | 2602.3 | 1669.4 | 1701.2 | 1798.0 | 1636.3 | 1386.1 | 1267.3 | 1340.5 |
| 9007.7 | 47.5° | 8330.6 | 6896.1 | 2469.6 | 1604.5 | 1690.2 | 1749.6 | 1575.5 | 1294.9 | 1210.6 | 1317.0 |
| 9838.3 | 50° | 8913.8 | 7131.0 | 2410.2 | 1557.5 | 1677.7 | 1730.2 | 1484.2 | 1271.4 | 1151.2 | 1221.7 |
| 10697.9 | 52.5° | 9492.8 | 7313.4 | 2366.0 | 1510.5 | 1659.8 | 1715.0 | 1440.0 | 1243.8 | 1079.3 | 1083.5 |
| 11563.0 | 55° | 10070.5 | 7432.3 | 2317.6 | 1448.3 | 1619.7 | 1681.9 | 1435.9 | 1213.4 | 1025.4 | 1006.1 |
| 12477.9 | 57.5° | 10686.9 | 7500.0 | 2258.2 | 1379.2 | 1550.6 | 1597.6 | 1431.7 | 1189.9 | 1008.8 | 977.1 |
| 13413.5 | 60° | 11314.3 | 7599.5 | 2180.8 | 1294.9 | 1458.0 | 1496.7 | 1422.1 | 1181.6 | 999.2 | 945.3 |
| 14295.2 | 62.5° | 11876.7 | 7634.1 | 2088.2 | 1214.8 | 1339.1 | 1397.2 | 1401.3 | 1174.7 | 972.9 | 880.3 |
| 15027.7 | 65° | 12245.7 | 7484.8 | 1926.5 | 1123.5 | 1210.6 | 1294.9 | 1361.3 | 1151.2 | 925.9 | 833.3 |
| 15389.7 | 67.5° | 12230.5 | 7059.2 | 1673.6 | 1006.1 | 1086.2 | 1181.6 | 1303.2 | 1111.1 | 869.3 | 775.3 |
| 15116.1 | 70° | 11661.1 | 6218.9 | 1353.0 | 869.3 | 949.4 | 1060.0 | 1228.6 | 1051.7 | 801.5 | 711.7 |
| 13441.1 | 72.5° | 10001.4 | 4867.3 | 982.6 | 709.0 | 790.5 | 934.2 | 1131.8 | 979.8 | 732.4 | 655.1 |
| 9933.7 | 75° | 7144.8 | 3080.4 | 666.1 | 544.5 | 615.0 | 791.9 | 1011.6 | 895.5 | 668.9 | 657.8 |
| 4975.1 | 77.5° | 3649.8 | 1471.8 | 440.9 | 398.0 | 428.4 | 624.7 | 849.9 | 800.2 | 678.6 | 543.1 |
| 1415.1 | 80° | 1187.1 | 543.1 | 277.8 | 270.9 | 284.7 | 416.0 | 657.8 | 656.4 | 514.1 | 369.0 |
| 342.7 | 82.5° | 378.7 | 233.6 | 181.0 | 174.1 | 167.2 | 261.2 | 458.8 | 519.6 | 346.9 | 233.6 |
| 123.0 | 85° | 150.6 | 139.6 | 106.4 | 98.1 | 70.5 | 123.0 | 240.5 | 345.5 | 258.4 | 168.6 |
| 31.8 | 87.5° | 55.3 | 55.3 | 29.0 | 20.7 | 15.2 | 41.5 | 65.0 | 103.6 | 147.9 | 87.1 |
| 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> |
|-------------|
| 3764.5 |
| 4056.1 |
| 4195.7 |
| 4168.1 |
| 3958.0 |
| 3616.6 |
| 3272.5 |
| 3015.5 |
| 2864.8 |
| 2805.4 |
| 2770.9 |
| 2736.3 |
| 2624.4 |
| 2368.7 |
| 2057.8 |
| 1768.9 |
| 1539.5 |
| 1383.4 |
| 1379.2 |
| 1366.8 |
| 1274.2 |
| 1112.5 |
| 1019.9 |
| 981.2 |
| 949.4 |
| 880.3 |
| 833.3 |
| 779.4 |
| 720.0 |
| 650.9 |
| 620.5 |
| 483.7 |
| 326.1 |
| 232.2 |
| 172.7 |
| 85.7 |
| 0.0 |

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