

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: P943105

Luminaire Tested: **GALN-SB7B-935-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943105
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB7B-935-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27603 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

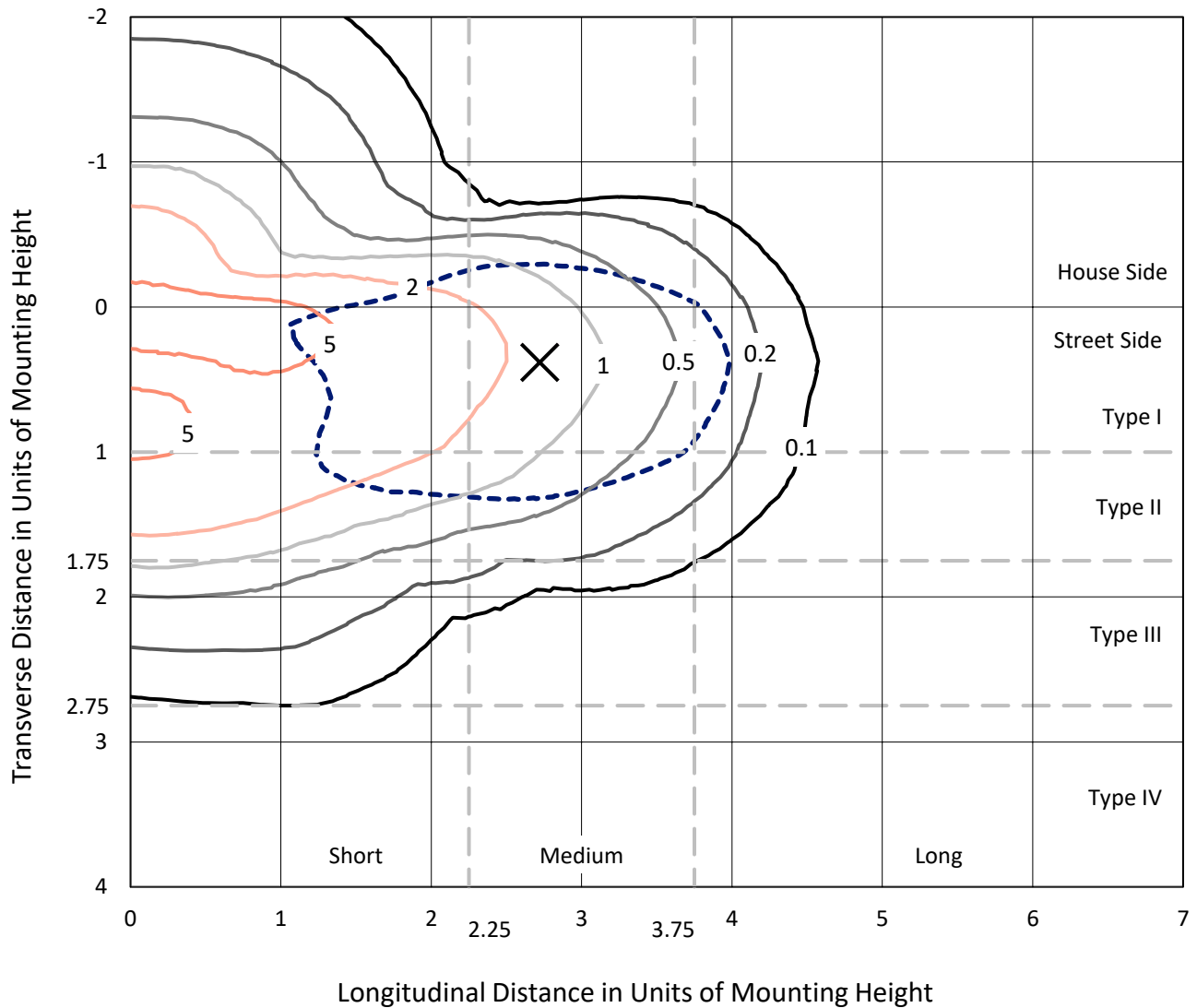
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

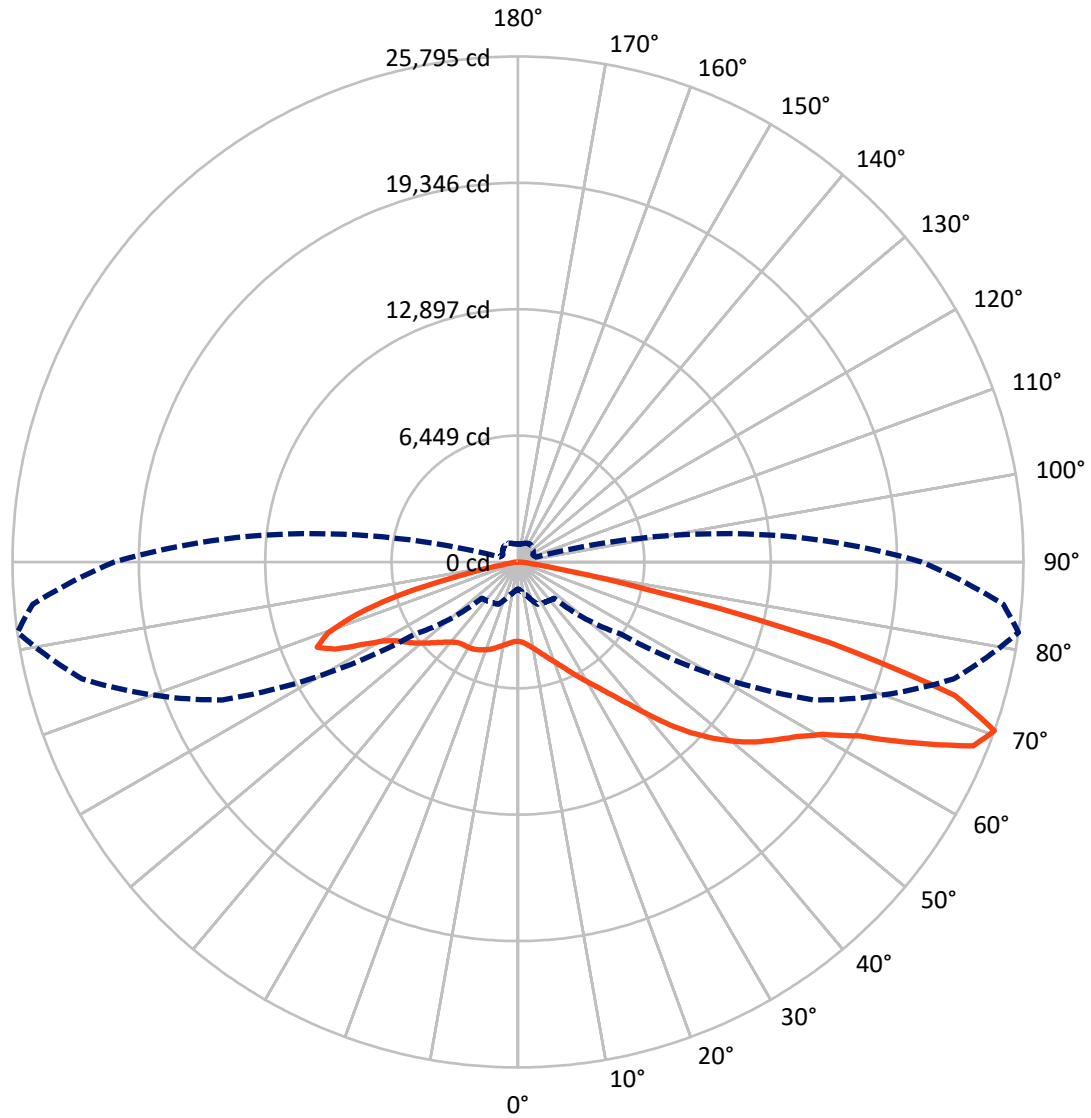
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6804.8 | 0.0 | 6804.8 |
| | % Fixture | 24.7 | 0.0 | 24.7 |
| Street Side | Lumens | 20798.2 | 0.0 | 20798.2 |
| | % Fixture | 75.3 | 0.0 | 75.3 |
| Total | Lumens | 27603.0 | 0.0 | 27603.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 382.1 | 1.4 |
| 10°-20° | 1097.8 | 4.0 |
| 20°-30° | 1836.5 | 6.7 |
| 30°-40° | 2869.1 | 10.4 |
| 40°-50° | 4569.4 | 16.6 |
| 50°-60° | 6358.9 | 23.0 |
| 60°-70° | 6651.7 | 24.1 |
| 70°-80° | 3476.5 | 12.6 |
| 80°-90° | 361.0 | 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° | 27603.0 | 100.0 |
| 0°-180° | 27603.0 | 100.0 |

Coefficient of Utilization



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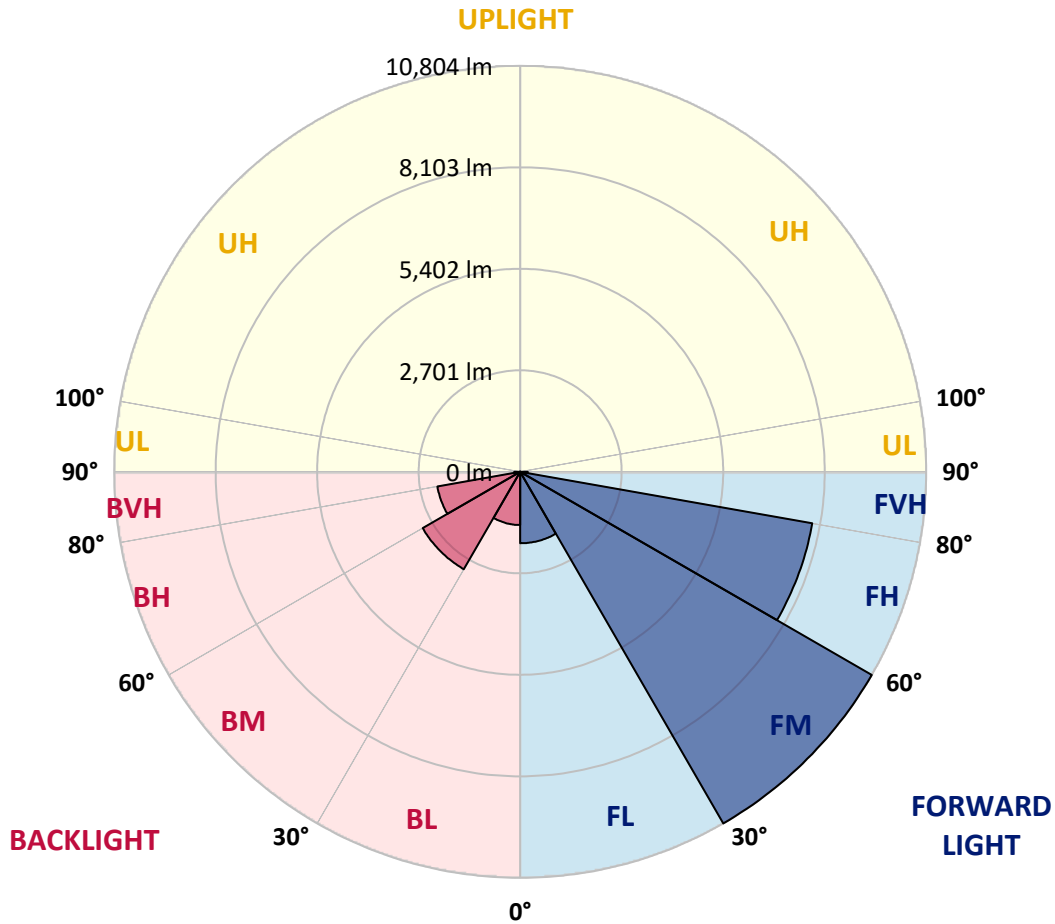
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1900.8 | 6.9 | | | |
| FM (30°-60°) | 10803.5 | 39.1 | | | |
| FH (60°-80°) | 7891.8 | 28.6 | | | G4/12000 |
| FVH (80°-90°) | 202.1 | 0.7 | | | G2/225 |
| BL (0°-30°) | 1415.7 | 5.1 | B3/2500 | | |
| BM (30°-60°) | 2993.8 | 10.8 | B3/5000 | | |
| BH (60°-80°) | 2236.4 | 8.1 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 158.9 | 0.6 | | | 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 II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 82° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4046.9 | 4046.9 | 4046.9 | 4046.9 | 4046.9 | 4046.9 | 4046.9 | 4046.9 | 4046.9 | 4046.9 |
| 2.5° | 4143.6 | 4167.0 | 4159.7 | 4152.4 | 4152.4 | 4142.1 | 4140.7 | 4126.0 | 4114.3 | 4095.3 |
| 5° | 4196.3 | 4221.2 | 4218.3 | 4224.2 | 4243.2 | 4247.6 | 4252.0 | 4243.2 | 4219.8 | 4196.3 |
| 7.5° | 4149.5 | 4177.3 | 4186.1 | 4221.2 | 4279.8 | 4332.6 | 4372.1 | 4388.2 | 4366.2 | 4332.6 |
| 10° | 3991.3 | 4022.0 | 4052.8 | 4136.3 | 4240.3 | 4364.8 | 4470.2 | 4533.2 | 4528.8 | 4496.6 |
| 12.5° | 3670.5 | 3702.7 | 3768.7 | 3931.2 | 4121.6 | 4341.3 | 4537.6 | 4669.4 | 4714.8 | 4691.4 |
| 15° | 3414.2 | 3442.0 | 3491.8 | 3658.8 | 3906.3 | 4240.3 | 4562.5 | 4818.8 | 4934.5 | 4921.4 |
| 17.5° | 3406.9 | 3418.6 | 3449.4 | 3528.4 | 3718.9 | 4082.1 | 4536.2 | 4965.3 | 5186.5 | 5185.0 |
| 20° | 3535.8 | 3540.2 | 3557.7 | 3573.8 | 3682.2 | 3962.0 | 4468.8 | 5086.9 | 5469.2 | 5469.2 |
| 22.5° | 3714.5 | 3711.5 | 3729.1 | 3714.5 | 3767.2 | 3951.7 | 4426.3 | 5193.8 | 5784.1 | 5807.5 |
| 25° | 3982.5 | 3967.9 | 3963.5 | 3929.8 | 3940.0 | 4046.9 | 4473.2 | 5315.4 | 6157.6 | 6205.9 |
| 27.5° | 4339.9 | 4316.4 | 4300.3 | 4222.7 | 4196.3 | 4243.2 | 4616.7 | 5461.8 | 6573.5 | 6657.0 |
| 30° | 4805.7 | 4763.2 | 4739.7 | 4605.0 | 4509.8 | 4517.1 | 4833.5 | 5656.6 | 7008.6 | 7143.3 |
| 32.5° | 5441.3 | 5375.4 | 5312.4 | 5091.3 | 4917.0 | 4859.8 | 5113.2 | 5926.1 | 7480.2 | 7695.5 |
| 35° | 6153.2 | 6100.4 | 6033.1 | 5691.8 | 5423.8 | 5291.9 | 5491.1 | 6302.6 | 8032.4 | 8373.6 |
| 37.5° | 6838.6 | 6793.2 | 6825.5 | 6365.6 | 6019.9 | 5828.0 | 5986.2 | 6807.9 | 8713.5 | 9217.3 |
| 40° | 7547.6 | 7512.4 | 7516.8 | 7077.4 | 6674.6 | 6459.3 | 6586.7 | 7442.1 | 9494.1 | 10220.6 |
| 42.5° | 8318.0 | 8291.6 | 8203.7 | 7814.1 | 7361.5 | 7160.9 | 7278.1 | 8174.4 | 10331.9 | 11363.1 |
| 45° | 9180.7 | 9164.6 | 9082.6 | 8635.8 | 8117.3 | 7891.8 | 8049.9 | 8983.0 | 11174.1 | 12438.2 |
| 47.5° | 9926.2 | 9939.4 | 9929.1 | 9552.7 | 9015.2 | 8684.2 | 8873.1 | 9826.6 | 11957.7 | 13448.8 |
| 50° | 10285.1 | 10353.9 | 10455.0 | 10337.8 | 10003.8 | 9667.0 | 9703.6 | 10641.0 | 12704.7 | 14396.5 |
| 52.5° | 10097.6 | 10227.9 | 10503.3 | 10690.8 | 10819.7 | 10749.4 | 10651.2 | 11449.5 | 13407.8 | 15251.8 |
| 55° | 9398.9 | 9582.0 | 10039.0 | 10491.6 | 11149.2 | 11660.4 | 11789.3 | 12345.9 | 14093.3 | 16004.7 |
| 57.5° | 8126.1 | 8423.4 | 8833.6 | 9749.0 | 10856.3 | 12101.3 | 13116.3 | 13589.4 | 14819.8 | 16808.8 |
| 60° | 5943.7 | 6342.1 | 6851.8 | 8214.0 | 9831.0 | 11865.5 | 14245.6 | 15499.4 | 15852.4 | 17850.2 |
| 62.5° | 3803.8 | 4049.9 | 4518.6 | 5801.6 | 7660.3 | 10657.1 | 14591.3 | 17886.8 | 17602.7 | 19558.0 |
| 65° | 2604.2 | 2762.4 | 3191.6 | 3912.2 | 4952.1 | 7932.8 | 13665.6 | 19676.7 | 20382.7 | 22264.8 |
| 67.5° | 1892.4 | 2012.5 | 2378.7 | 3009.9 | 3226.7 | 4694.3 | 10604.4 | 19594.7 | 23085.0 | 25053.6 |
| 70° | 1379.7 | 1464.7 | 1772.3 | 2378.7 | 2482.7 | 2611.5 | 6424.1 | 16656.5 | 23026.4 | 25794.7 |
| 72.5° | 1022.4 | 1080.9 | 1287.5 | 1845.5 | 2009.6 | 1763.5 | 3179.8 | 12105.7 | 19786.5 | 23331.1 |
| 75° | 739.7 | 783.6 | 935.9 | 1412.0 | 1608.2 | 1343.1 | 1586.3 | 7074.5 | 13801.8 | 16411.9 |
| 77.5° | 565.4 | 599.1 | 698.7 | 1034.1 | 1287.5 | 1007.7 | 984.3 | 3254.5 | 6544.2 | 6576.5 |
| 80° | 454.1 | 476.0 | 530.2 | 728.0 | 987.2 | 754.3 | 641.5 | 1313.8 | 2068.1 | 1750.3 |
| 82.5° | 333.9 | 370.6 | 448.2 | 511.2 | 706.0 | 520.0 | 391.1 | 663.5 | 786.5 | 676.7 |
| 85° | 190.4 | 215.3 | 271.0 | 366.2 | 451.1 | 317.8 | 224.1 | 294.4 | 366.2 | 300.3 |
| 87.5° | 67.4 | 87.9 | 95.2 | 143.5 | 196.3 | 131.8 | 86.4 | 85.0 | 120.1 | 89.3 |
| 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° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4046.9 | 0° | 4046.9 | 4046.9 | 4046.9 | 4046.9 | 4046.9 | 4046.9 | 4046.9 | 4046.9 | 4046.9 | 4046.9 |
| 4090.9 | 2.5° | 4076.2 | 4068.9 | 4039.6 | 4000.1 | 3959.1 | 3919.5 | 3906.3 | 3878.5 | 3859.5 | 3849.2 |
| 4186.1 | 5° | 4158.3 | 4134.8 | 4066.0 | 3978.1 | 3885.8 | 3786.2 | 3715.9 | 3651.5 | 3604.6 | 3560.7 |
| 4316.4 | 7.5° | 4275.4 | 4234.4 | 4115.8 | 3962.0 | 3797.9 | 3632.4 | 3509.4 | 3415.7 | 3352.7 | 3311.7 |
| 4468.8 | 10° | 4411.7 | 4348.7 | 4167.0 | 3937.1 | 3683.7 | 3446.4 | 3301.4 | 3220.9 | 3181.3 | 3159.3 |
| 4643.1 | 12.5° | 4568.4 | 4479.0 | 4219.8 | 3880.0 | 3509.4 | 3238.4 | 3138.8 | 3115.4 | 3116.9 | 3118.3 |
| 4862.8 | 15° | 4761.7 | 4637.2 | 4262.3 | 3755.5 | 3282.4 | 3078.8 | 3061.2 | 3099.3 | 3138.8 | 3157.9 |
| 5111.8 | 17.5° | 4980.0 | 4804.2 | 4269.6 | 3550.4 | 3059.7 | 2976.3 | 3031.9 | 3113.9 | 3174.0 | 3200.4 |
| 5390.1 | 20° | 5214.3 | 4974.1 | 4216.8 | 3260.4 | 2876.7 | 2892.8 | 2992.4 | 3097.8 | 3163.7 | 3197.4 |
| 5707.9 | 22.5° | 5482.3 | 5155.7 | 4090.9 | 2955.7 | 2727.3 | 2802.0 | 2919.1 | 3021.7 | 3090.5 | 3124.2 |
| 6081.4 | 25° | 5788.5 | 5359.3 | 3893.2 | 2699.4 | 2598.4 | 2699.4 | 2816.6 | 2901.6 | 2957.2 | 2988.0 |
| 6498.8 | 27.5° | 6128.3 | 5571.7 | 3629.5 | 2495.8 | 2485.6 | 2594.0 | 2690.6 | 2756.6 | 2785.8 | 2809.3 |
| 6942.6 | 30° | 6469.5 | 5765.0 | 3310.2 | 2342.0 | 2387.4 | 2490.0 | 2558.8 | 2588.1 | 2596.9 | 2601.3 |
| 7437.7 | 32.5° | 6838.6 | 5932.0 | 2974.8 | 2214.6 | 2293.7 | 2388.9 | 2429.9 | 2443.1 | 2402.1 | 2374.3 |
| 8038.2 | 35° | 7285.4 | 6110.7 | 2646.7 | 2113.6 | 2201.4 | 2283.5 | 2296.6 | 2284.9 | 2236.6 | 2179.5 |
| 8791.1 | 37.5° | 7837.6 | 6333.3 | 2384.5 | 2041.8 | 2115.0 | 2169.2 | 2153.1 | 2150.2 | 2154.6 | 2087.2 |
| 9696.3 | 40° | 8514.3 | 6623.3 | 2192.6 | 1986.1 | 2044.7 | 2056.4 | 2011.0 | 2035.9 | 2057.9 | 1955.4 |
| 10689.3 | 42.5° | 9265.6 | 6973.4 | 2071.1 | 1948.0 | 1986.1 | 1958.3 | 1888.0 | 1915.8 | 1912.9 | 1778.1 |
| 11686.8 | 45° | 10031.7 | 7354.2 | 2028.6 | 1920.2 | 1931.9 | 1876.3 | 1798.6 | 1806.0 | 1744.4 | 1622.9 |
| 12643.2 | 47.5° | 10793.3 | 7762.9 | 2055.0 | 1896.8 | 1864.6 | 1801.6 | 1741.5 | 1709.3 | 1618.5 | 1527.7 |
| 13560.1 | 50° | 11540.3 | 8192.0 | 2151.6 | 1849.9 | 1772.3 | 1735.7 | 1691.7 | 1634.6 | 1537.9 | 1460.3 |
| 14427.2 | 52.5° | 12233.1 | 8624.1 | 2260.0 | 1772.3 | 1656.6 | 1678.5 | 1650.7 | 1584.8 | 1489.6 | 1410.5 |
| 15247.4 | 55° | 12889.3 | 9056.2 | 2302.5 | 1665.4 | 1548.2 | 1628.7 | 1612.6 | 1491.1 | 1376.8 | 1312.4 |
| 16105.8 | 57.5° | 13604.1 | 9576.2 | 2255.6 | 1529.1 | 1460.3 | 1571.6 | 1510.1 | 1375.3 | 1309.4 | 1261.1 |
| 17223.3 | 60° | 14594.2 | 10392.0 | 2154.6 | 1360.7 | 1376.8 | 1486.7 | 1381.2 | 1325.5 | 1253.8 | 1199.6 |
| 18898.9 | 62.5° | 16239.0 | 11913.8 | 1992.0 | 1193.7 | 1278.7 | 1360.7 | 1319.7 | 1264.0 | 1190.8 | 1138.1 |
| 21763.9 | 65° | 18670.4 | 14028.8 | 1685.9 | 1063.4 | 1168.8 | 1237.7 | 1253.8 | 1198.1 | 1122.0 | 1066.3 |
| 24274.3 | 67.5° | 20721.0 | 15355.8 | 1275.7 | 955.0 | 1056.0 | 1138.1 | 1183.5 | 1129.3 | 1048.7 | 994.5 |
| 24861.7 | 70° | 20608.2 | 14392.1 | 974.0 | 848.1 | 956.4 | 1039.9 | 1098.5 | 1056.0 | 969.6 | 918.4 |
| 22582.6 | 72.5° | 18304.3 | 12039.8 | 788.0 | 739.7 | 855.4 | 937.4 | 1007.7 | 975.5 | 887.6 | 837.8 |
| 16543.7 | 75° | 13447.3 | 8546.5 | 629.8 | 629.8 | 729.4 | 830.5 | 908.1 | 887.6 | 807.0 | 771.9 |
| 6945.6 | 77.5° | 5668.4 | 3585.6 | 493.6 | 522.9 | 606.4 | 713.3 | 810.0 | 817.3 | 747.0 | 790.9 |
| 1836.7 | 80° | 1507.2 | 988.7 | 376.4 | 411.6 | 476.0 | 588.8 | 704.5 | 701.6 | 625.4 | 584.4 |
| 682.5 | 82.5° | 574.2 | 389.6 | 268.0 | 290.0 | 344.2 | 451.1 | 558.0 | 575.6 | 499.5 | 432.1 |
| 268.0 | 85° | 221.2 | 167.0 | 165.5 | 174.3 | 200.7 | 298.8 | 421.8 | 436.5 | 376.4 | 319.3 |
| 74.7 | 87.5° | 57.1 | 49.8 | 61.5 | 58.6 | 92.3 | 159.7 | 241.7 | 250.5 | 230.0 | 133.3 |
| 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> |
|-------------|
| 4046.9 |
| 3860.9 |
| 3578.2 |
| 3320.5 |
| 3165.2 |
| 3121.3 |
| 3156.4 |
| 3206.2 |
| 3206.2 |
| 3133.0 |
| 2996.8 |
| 2818.1 |
| 2611.5 |
| 2383.1 |
| 2182.4 |
| 2091.6 |
| 1958.3 |
| 1776.7 |
| 1627.3 |
| 1527.7 |
| 1454.4 |
| 1412.0 |
| 1306.5 |
| 1256.7 |
| 1196.7 |
| 1138.1 |
| 1069.2 |
| 996.0 |
| 922.8 |
| 837.8 |
| 761.6 |
| 717.7 |
| 543.4 |
| 432.1 |
| 329.6 |
| 190.4 |
| 0.0 |

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