

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: P948256

Luminaire Tested: **GALN-SB3B-840-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948256
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB3B-840-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16436 lumens
Efficiency: N/A
Efficacy: 150.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

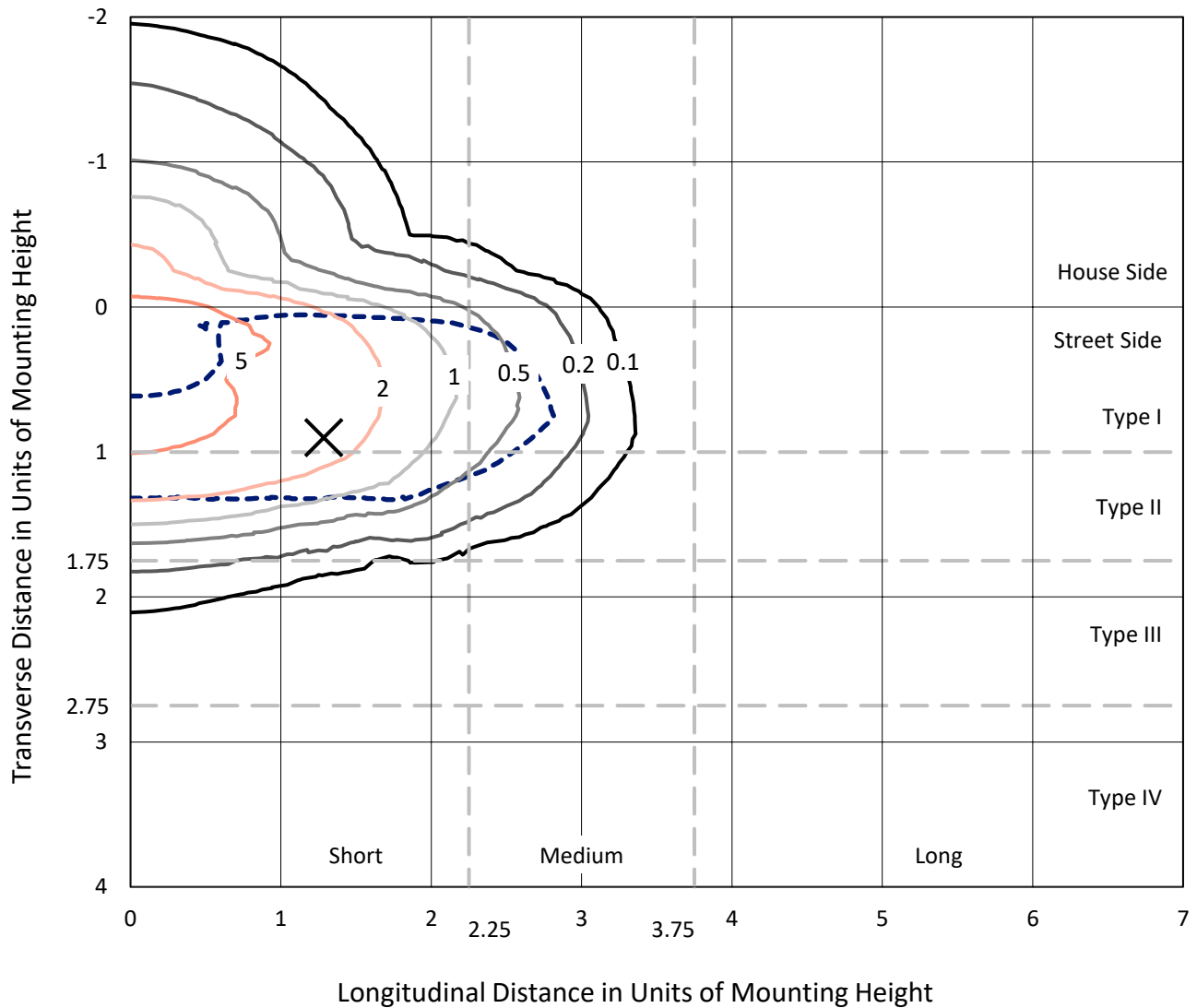
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

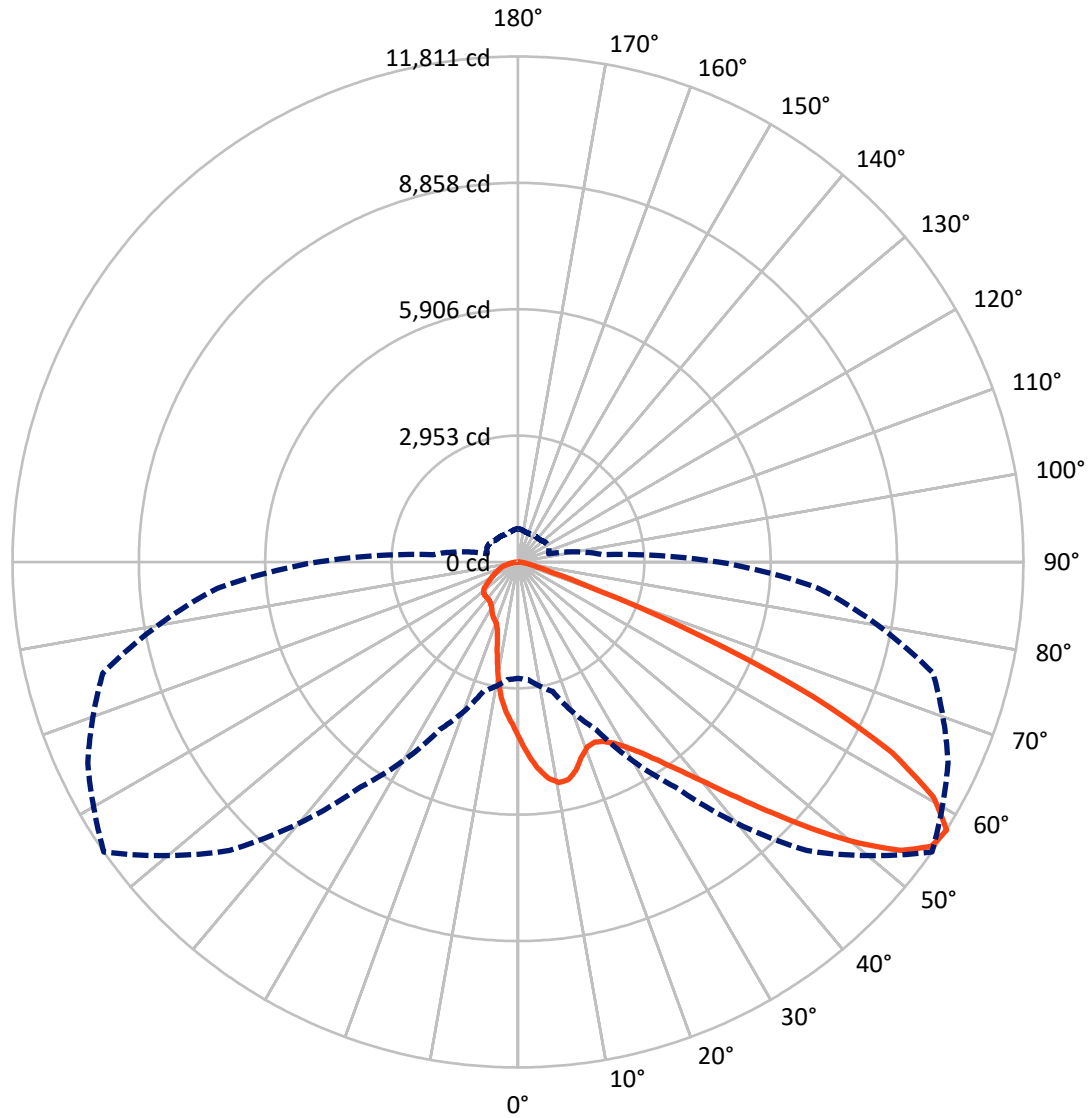
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2974.0 | 0.0 | 2974.0 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 13462.0 | 0.0 | 13462.0 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 16436.0 | 0.0 | 16436.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 382.2 | 2.3 |
| 10°-20° | 964.6 | 5.9 |
| 20°-30° | 1539.2 | 9.4 |
| 30°-40° | 2436.9 | 14.8 |
| 40°-50° | 3730.0 | 22.7 |
| 50°-60° | 3995.1 | 24.3 |
| 60°-70° | 2513.4 | 15.3 |
| 70°-80° | 743.3 | 4.5 |
| 80°-90° | 131.4 | 0.8 |
| 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° | 16436.0 | 100.0 |
| 0°-180° | 16436.0 | 100.0 |

Coefficient of Utilization



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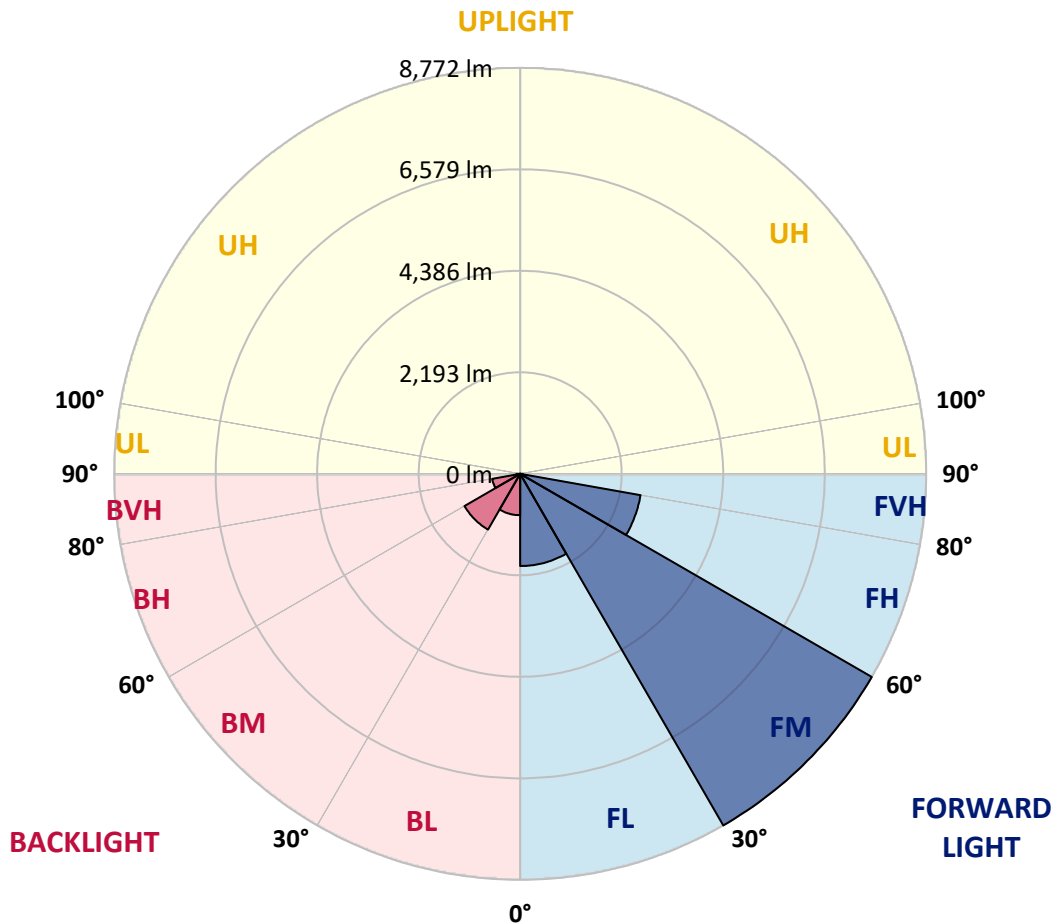
CATALOG NUMBER: GALN-SB3B-840-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1992.0 | 12.1 | | | |
| FM (30°-60°) | 8772.0 | 53.4 | | | |
| FH (60°-80°) | 2642.4 | 16.1 | | | G2/5000 |
| FVH (80°-90°) | 55.5 | 0.3 | | | G1/100 |
| BL (0°-30°) | 893.9 | 5.4 | B2/1000 | | |
| BM (30°-60°) | 1390.0 | 8.5 | B2/2500 | | |
| BH (60°-80°) | 614.2 | 3.7 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 75.9 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|--------|
| 0° | 4118.3 | 4118.3 | 4118.3 | 4118.3 | 4118.3 | 4118.3 | 4118.3 | 4118.3 | 4118.3 | 4118.3 |
| 2.5° | 4725.0 | 4721.6 | 4740.3 | 4676.6 | 4633.2 | 4574.6 | 4497.3 | 4398.7 | 4292.5 | 4180.4 |
| 5° | 5150.7 | 5120.9 | 5140.5 | 5092.9 | 5045.3 | 4956.9 | 4842.2 | 4681.7 | 4485.4 | 4261.9 |
| 7.5° | 5083.5 | 5063.2 | 5113.3 | 5155.8 | 5191.5 | 5180.4 | 5096.3 | 4928.1 | 4674.9 | 4350.3 |
| 10° | 4542.3 | 4519.4 | 4589.9 | 4736.9 | 4952.7 | 5140.5 | 5242.4 | 5137.9 | 4868.6 | 4447.1 |
| 12.5° | 4064.8 | 4053.8 | 4100.5 | 4219.4 | 4459.0 | 4819.3 | 5223.7 | 5321.5 | 5070.0 | 4561.9 |
| 15° | 3860.9 | 3847.3 | 3877.0 | 3937.3 | 4090.3 | 4425.9 | 5053.8 | 5447.2 | 5267.9 | 4694.4 |
| 17.5° | 3815.8 | 3800.6 | 3813.3 | 3844.7 | 3943.3 | 4199.0 | 4797.2 | 5509.2 | 5474.4 | 4842.2 |
| 20° | 3899.1 | 3886.4 | 3888.1 | 3886.4 | 3955.2 | 4158.3 | 4618.8 | 5485.4 | 5654.5 | 4978.2 |
| 22.5° | 4100.5 | 4079.2 | 4080.1 | 4035.1 | 4072.4 | 4229.6 | 4572.0 | 5421.7 | 5815.1 | 5097.1 |
| 25° | 4428.5 | 4390.2 | 4397.9 | 4283.2 | 4273.0 | 4389.4 | 4645.1 | 5372.4 | 5974.8 | 5192.3 |
| 27.5° | 4877.1 | 4833.7 | 4810.8 | 4640.0 | 4558.5 | 4616.2 | 4793.8 | 5389.4 | 6126.1 | 5274.7 |
| 30° | 5437.9 | 5385.2 | 5338.4 | 5096.3 | 4948.5 | 4927.2 | 5024.9 | 5501.6 | 6304.5 | 5361.4 |
| 32.5° | 6125.2 | 6064.1 | 5979.1 | 5657.9 | 5449.8 | 5338.4 | 5324.0 | 5701.3 | 6513.5 | 5471.8 |
| 35° | 6943.5 | 6863.6 | 6742.9 | 6327.5 | 6064.1 | 5836.4 | 5718.2 | 5989.3 | 6799.9 | 5638.4 |
| 37.5° | 7786.3 | 7696.3 | 7585.8 | 7091.3 | 6767.6 | 6432.0 | 6199.2 | 6380.1 | 7181.4 | 5864.4 |
| 40° | 8563.8 | 8462.7 | 8359.9 | 7919.7 | 7572.2 | 7167.8 | 6788.0 | 6874.6 | 7647.8 | 6134.6 |
| 42.5° | 9022.6 | 8947.8 | 8908.7 | 8670.8 | 8402.3 | 7992.0 | 7520.4 | 7460.9 | 8172.1 | 6445.6 |
| 45° | 9002.2 | 8971.6 | 9092.3 | 9190.8 | 9127.1 | 8899.4 | 8378.6 | 8109.2 | 8698.0 | 6714.9 |
| 47.5° | 8521.3 | 8541.7 | 8811.0 | 9365.0 | 9608.9 | 9727.8 | 9355.7 | 8745.6 | 9155.1 | 6916.3 |
| 50° | 7212.8 | 7229.8 | 7853.5 | 9048.1 | 9732.9 | 10403.3 | 10325.1 | 9366.7 | 9509.5 | 7039.5 |
| 52.5° | 6177.1 | 6188.1 | 6455.8 | 8108.4 | 9323.4 | 10743.2 | 11198.6 | 9952.1 | 9768.6 | 7073.5 |
| 55° | 4652.8 | 4691.0 | 4990.9 | 6361.4 | 8257.9 | 10473.8 | 11730.5 | 10555.4 | 9932.6 | 7076.9 |
| 57.5° | 2718.1 | 2759.7 | 3130.2 | 4318.0 | 6418.4 | 9534.9 | 11811.2 | 11090.7 | 10043.9 | 7049.7 |
| 60° | 1331.4 | 1349.3 | 1510.7 | 2269.5 | 3957.7 | 7726.0 | 11162.1 | 11349.8 | 10105.9 | 7035.2 |
| 62.5° | 897.2 | 894.7 | 901.5 | 1119.9 | 1950.0 | 4963.7 | 9809.4 | 10896.1 | 10072.8 | 6980.0 |
| 65° | 771.5 | 762.1 | 736.7 | 785.9 | 1010.3 | 2270.3 | 7579.0 | 9541.7 | 9820.4 | 6841.5 |
| 67.5° | 667.0 | 667.8 | 668.7 | 653.4 | 721.4 | 1047.6 | 4631.5 | 7516.1 | 8914.7 | 6185.6 |
| 70° | 552.3 | 559.9 | 563.3 | 563.3 | 588.0 | 687.4 | 1977.2 | 5151.5 | 7031.8 | 4849.9 |
| 72.5° | 503.0 | 486.9 | 488.6 | 480.1 | 480.1 | 523.4 | 796.1 | 2920.3 | 4430.2 | 2728.3 |
| 75° | 410.4 | 420.6 | 422.3 | 416.3 | 396.8 | 399.3 | 472.4 | 1225.2 | 1895.6 | 1131.8 |
| 77.5° | 354.3 | 354.3 | 357.7 | 353.5 | 338.2 | 299.1 | 315.2 | 475.0 | 644.9 | 463.9 |
| 80° | 284.6 | 283.8 | 298.2 | 306.7 | 282.9 | 220.9 | 201.4 | 262.5 | 286.3 | 203.9 |
| 82.5° | 138.5 | 147.0 | 204.8 | 233.7 | 215.0 | 159.7 | 123.2 | 163.1 | 152.9 | 90.1 |
| 85° | 80.7 | 76.5 | 91.8 | 130.0 | 123.2 | 88.4 | 59.5 | 85.0 | 79.9 | 45.9 |
| 87.5° | 25.5 | 23.8 | 18.7 | 44.2 | 35.7 | 24.6 | 16.1 | 24.6 | 22.1 | 10.2 |
| 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):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4118.3 | 0° | 4118.3 | 4118.3 | 4118.3 | 4118.3 | 4118.3 | 4118.3 | 4118.3 | 4118.3 | 4118.3 | 4118.3 |
| 4131.9 | 2.5° | 4071.6 | 3971.3 | 3871.9 | 3781.0 | 3725.8 | 3690.1 | 3654.4 | 3614.5 | 3599.2 | 3576.2 |
| 4143.0 | 5° | 4030.8 | 3837.1 | 3664.6 | 3515.9 | 3380.8 | 3274.6 | 3167.6 | 3080.9 | 3041.8 | 3068.1 |
| 4177.8 | 7.5° | 4007.0 | 3726.6 | 3460.7 | 3187.9 | 2925.4 | 2715.5 | 2532.9 | 2404.6 | 2346.8 | 2361.2 |
| 4211.8 | 10° | 3985.8 | 3601.7 | 3196.4 | 2765.7 | 2388.4 | 2128.4 | 1941.5 | 1843.8 | 1807.2 | 1814.9 |
| 4257.7 | 12.5° | 3966.2 | 3461.5 | 2877.8 | 2311.1 | 1910.0 | 1738.4 | 1684.9 | 1685.7 | 1692.5 | 1697.6 |
| 4330.7 | 15° | 3962.8 | 3292.5 | 2521.8 | 1913.4 | 1651.7 | 1640.7 | 1698.5 | 1735.0 | 1754.6 | 1760.5 |
| 4391.9 | 17.5° | 3957.7 | 3090.2 | 2159.0 | 1642.4 | 1588.9 | 1663.6 | 1717.2 | 1741.0 | 1756.3 | 1757.1 |
| 4451.4 | 20° | 3937.3 | 2833.6 | 1824.2 | 1513.3 | 1575.3 | 1639.9 | 1673.0 | 1691.7 | 1704.4 | 1708.7 |
| 4496.4 | 22.5° | 3874.5 | 2548.1 | 1563.4 | 1455.5 | 1520.9 | 1572.7 | 1611.8 | 1633.1 | 1640.7 | 1645.8 |
| 4504.9 | 25° | 3761.5 | 2228.7 | 1383.3 | 1400.2 | 1445.3 | 1510.7 | 1542.1 | 1546.4 | 1543.8 | 1551.5 |
| 4483.7 | 27.5° | 3613.6 | 1886.3 | 1271.1 | 1325.5 | 1383.3 | 1439.3 | 1456.3 | 1453.8 | 1448.7 | 1457.2 |
| 4447.1 | 30° | 3435.2 | 1578.7 | 1199.7 | 1241.4 | 1320.4 | 1371.4 | 1386.7 | 1380.7 | 1370.5 | 1379.9 |
| 4428.5 | 32.5° | 3246.6 | 1327.2 | 1141.1 | 1182.7 | 1268.6 | 1318.7 | 1334.0 | 1328.0 | 1320.4 | 1328.0 |
| 4449.7 | 35° | 3070.7 | 1151.3 | 1086.7 | 1143.6 | 1227.8 | 1277.0 | 1296.6 | 1297.4 | 1297.4 | 1306.8 |
| 4505.8 | 37.5° | 2909.3 | 1048.5 | 1041.7 | 1119.0 | 1199.7 | 1243.9 | 1271.9 | 1273.6 | 1237.1 | 1239.7 |
| 4600.9 | 40° | 2759.7 | 1005.2 | 1021.3 | 1102.9 | 1172.5 | 1215.0 | 1216.7 | 1121.6 | 1054.4 | 1052.7 |
| 4709.7 | 42.5° | 2637.4 | 996.7 | 1027.2 | 1101.2 | 1153.0 | 1154.7 | 1034.9 | 961.0 | 942.3 | 943.1 |
| 4810.0 | 45° | 2522.7 | 994.1 | 1040.8 | 1101.2 | 1124.1 | 997.5 | 916.8 | 897.2 | 898.9 | 905.7 |
| 4855.0 | 47.5° | 2394.4 | 983.9 | 1043.4 | 1085.9 | 1040.8 | 887.1 | 863.3 | 854.8 | 851.4 | 853.1 |
| 4844.8 | 50° | 2254.2 | 947.4 | 1011.1 | 1055.3 | 898.1 | 839.5 | 809.7 | 807.2 | 811.4 | 814.0 |
| 4787.9 | 52.5° | 2106.3 | 887.9 | 955.9 | 1000.1 | 832.7 | 797.8 | 764.7 | 770.6 | 789.3 | 795.3 |
| 4728.4 | 55° | 2009.5 | 818.2 | 882.8 | 889.6 | 786.8 | 758.8 | 730.7 | 744.3 | 779.1 | 790.2 |
| 4692.7 | 57.5° | 1984.0 | 744.3 | 799.5 | 791.9 | 728.2 | 724.8 | 707.8 | 719.7 | 763.8 | 780.0 |
| 4691.0 | 60° | 1976.3 | 678.0 | 718.0 | 712.0 | 671.2 | 687.4 | 683.1 | 689.1 | 704.4 | 709.5 |
| 4674.0 | 62.5° | 1916.8 | 625.4 | 644.9 | 636.4 | 620.3 | 648.3 | 658.5 | 645.7 | 657.6 | 663.6 |
| 4557.6 | 65° | 1765.6 | 582.9 | 573.5 | 567.6 | 574.4 | 599.9 | 620.3 | 594.8 | 605.8 | 622.8 |
| 4109.0 | 67.5° | 1515.8 | 525.1 | 499.6 | 506.4 | 527.6 | 541.2 | 567.6 | 538.7 | 548.0 | 576.9 |
| 3309.4 | 70° | 1226.1 | 452.0 | 429.1 | 448.6 | 469.0 | 497.1 | 501.3 | 481.8 | 503.9 | 536.1 |
| 2019.7 | 72.5° | 867.5 | 378.1 | 362.0 | 401.9 | 408.7 | 445.2 | 435.9 | 426.5 | 457.1 | 468.2 |
| 998.4 | 75° | 601.6 | 305.0 | 295.7 | 326.3 | 350.9 | 382.3 | 375.6 | 386.6 | 451.2 | 456.3 |
| 498.8 | 77.5° | 380.7 | 237.1 | 231.1 | 250.7 | 284.6 | 319.5 | 330.5 | 456.3 | 770.6 | 801.2 |
| 259.1 | 80° | 220.9 | 176.7 | 169.9 | 185.2 | 215.0 | 247.3 | 318.6 | 559.9 | 508.1 | 502.2 |
| 116.4 | 82.5° | 123.2 | 121.5 | 113.0 | 117.3 | 143.6 | 178.4 | 450.3 | 394.2 | 320.3 | 330.5 |
| 46.7 | 85° | 57.8 | 71.4 | 61.2 | 58.6 | 80.7 | 209.0 | 300.8 | 225.2 | 149.5 | 146.1 |
| 10.2 | 87.5° | 15.3 | 13.6 | 13.6 | 15.3 | 34.0 | 180.1 | 119.8 | 96.0 | 56.9 | 55.2 |
| 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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