

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: P948718

Luminaire Tested: **GALN-SB3C-940-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948718
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-SB3C-940-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16560 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

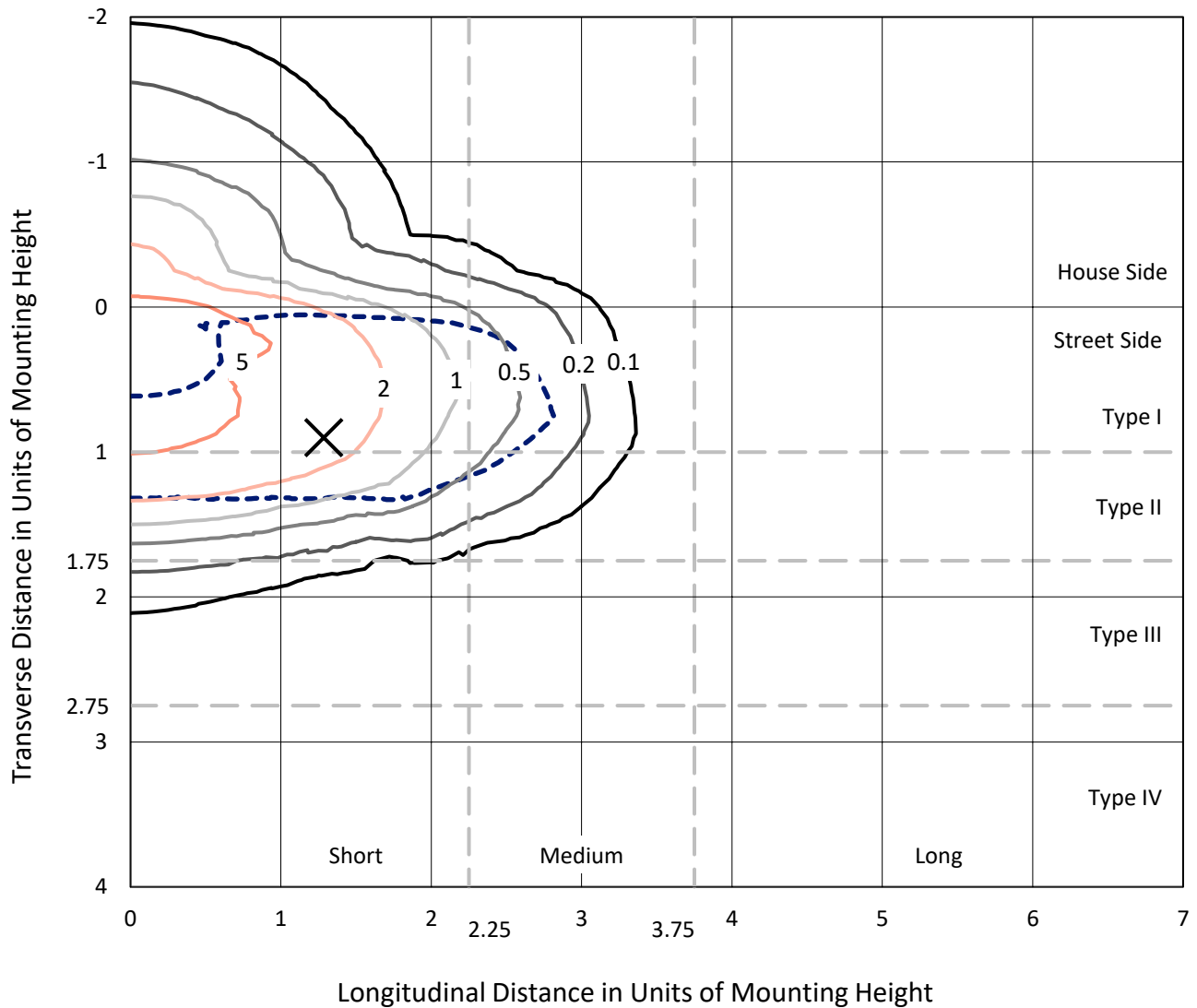
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

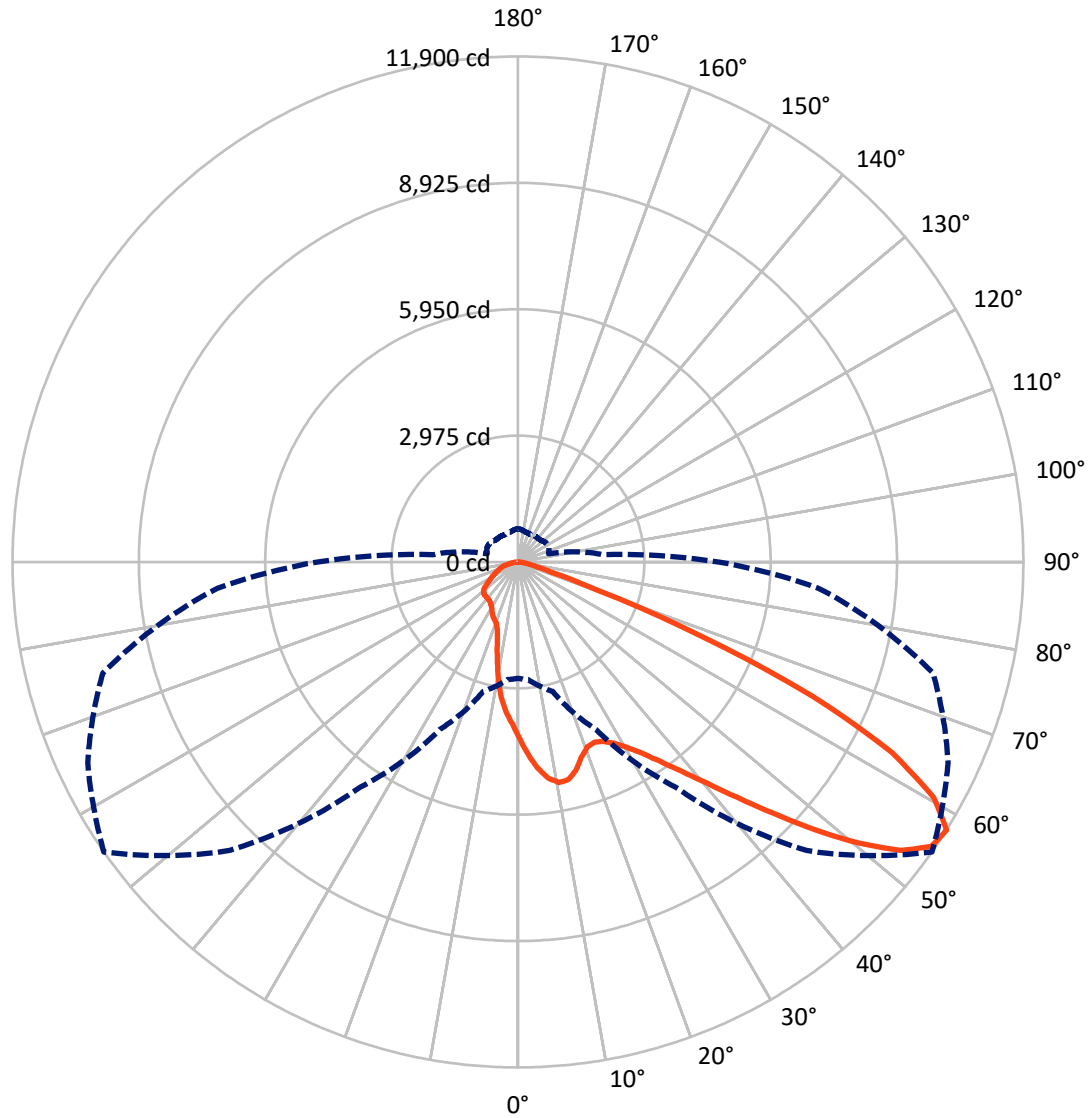
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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 | 2996.5 | 0.0 | 2996.5 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 13563.5 | 0.0 | 13563.5 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 16560.0 | 0.0 | 16560.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 385.0 | 2.3 |
| 10°-20° | 971.9 | 5.9 |
| 20°-30° | 1550.8 | 9.4 |
| 30°-40° | 2455.3 | 14.8 |
| 40°-50° | 3758.1 | 22.7 |
| 50°-60° | 4025.3 | 24.3 |
| 60°-70° | 2532.3 | 15.3 |
| 70°-80° | 748.9 | 4.5 |
| 80°-90° | 132.4 | 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° | 16560.0 | 100.0 |
| 0°-180° | 16560.0 | 100.0 |

Coefficient of Utilization



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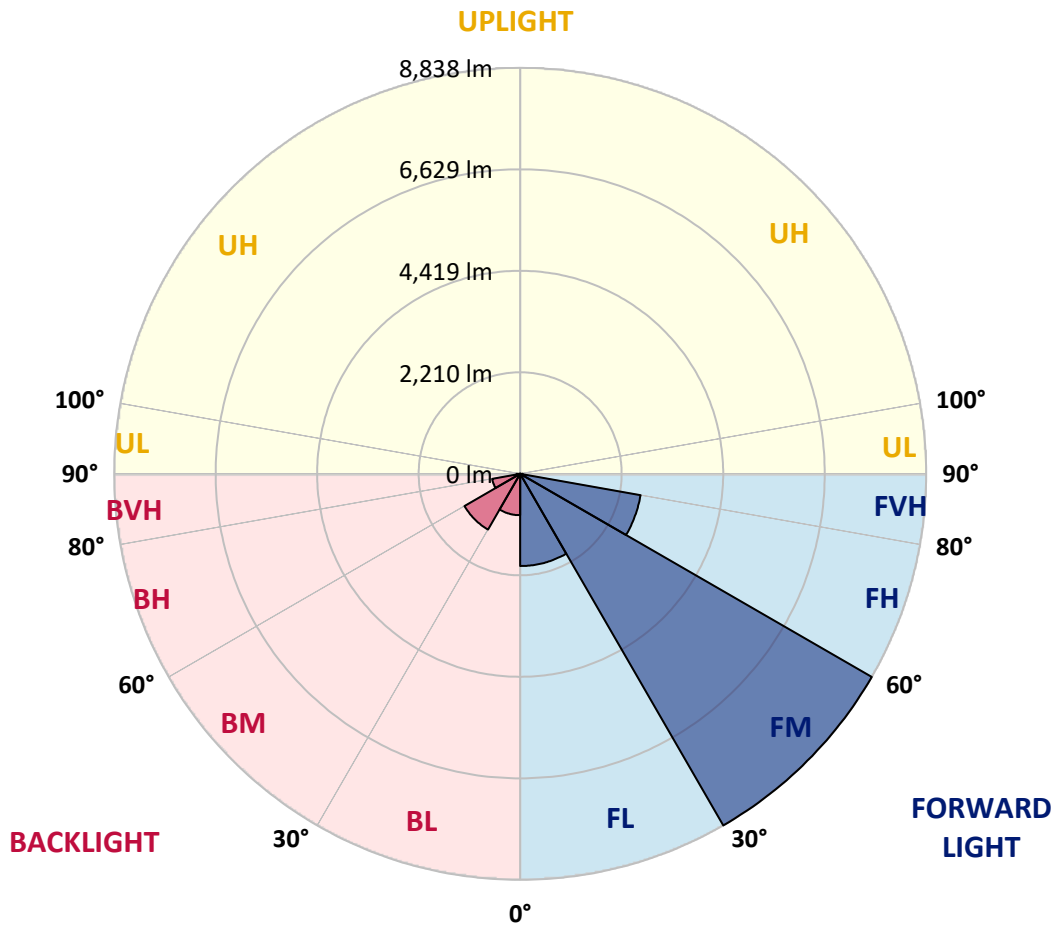
CATALOG NUMBER: GALN-SB3C-940-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2007.1 | 12.1 | | | |
| FM (30°-60°) | 8838.2 | 53.4 | | | |
| FH (60°-80°) | 2662.3 | 16.1 | | | G2/5000 |
| FVH (80°-90°) | 55.9 | 0.3 | | | G1/100 |
| BL (0°-30°) | 900.6 | 5.4 | B2/1000 | | |
| BM (30°-60°) | 1400.5 | 8.5 | B2/2500 | | |
| BH (60°-80°) | 618.8 | 3.7 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 76.5 | 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° | 4149.4 | 4149.4 | 4149.4 | 4149.4 | 4149.4 | 4149.4 | 4149.4 | 4149.4 | 4149.4 | 4149.4 |
| 2.5° | 4760.6 | 4757.2 | 4776.0 | 4711.8 | 4668.2 | 4609.1 | 4531.2 | 4431.9 | 4324.9 | 4211.9 |
| 5° | 5189.5 | 5159.6 | 5179.3 | 5131.3 | 5083.4 | 4994.3 | 4878.8 | 4717.0 | 4519.2 | 4294.1 |
| 7.5° | 5121.9 | 5101.4 | 5151.9 | 5194.7 | 5230.6 | 5219.5 | 5134.7 | 4965.2 | 4710.1 | 4383.1 |
| 10° | 4576.6 | 4553.5 | 4624.5 | 4772.6 | 4990.1 | 5179.3 | 5282.0 | 5176.7 | 4905.3 | 4480.7 |
| 12.5° | 4095.5 | 4084.3 | 4131.4 | 4251.3 | 4492.7 | 4855.7 | 5263.2 | 5361.6 | 5108.2 | 4596.3 |
| 15° | 3890.0 | 3876.3 | 3906.3 | 3967.1 | 4121.1 | 4459.3 | 5091.9 | 5488.3 | 5307.7 | 4729.8 |
| 17.5° | 3844.6 | 3829.2 | 3842.1 | 3873.7 | 3973.0 | 4230.7 | 4833.4 | 5550.8 | 5515.7 | 4878.8 |
| 20° | 3928.5 | 3915.7 | 3917.4 | 3915.7 | 3985.0 | 4189.6 | 4653.6 | 5526.8 | 5697.2 | 5015.7 |
| 22.5° | 4131.4 | 4110.0 | 4110.9 | 4065.5 | 4103.2 | 4261.5 | 4606.5 | 5462.6 | 5859.0 | 5135.6 |
| 25° | 4461.9 | 4423.3 | 4431.0 | 4315.5 | 4305.2 | 4422.5 | 4680.2 | 5413.0 | 6019.9 | 5231.5 |
| 27.5° | 4913.9 | 4870.2 | 4847.1 | 4675.0 | 4592.8 | 4651.1 | 4830.0 | 5430.1 | 6172.3 | 5314.5 |
| 30° | 5478.9 | 5425.8 | 5378.7 | 5134.7 | 4985.8 | 4964.4 | 5062.8 | 5543.1 | 6352.1 | 5401.8 |
| 32.5° | 6171.4 | 6109.8 | 6024.2 | 5700.6 | 5490.9 | 5378.7 | 5364.2 | 5744.3 | 6562.7 | 5513.1 |
| 35° | 6995.8 | 6915.4 | 6793.8 | 6375.2 | 6109.8 | 5880.4 | 5761.4 | 6034.5 | 6851.2 | 5680.9 |
| 37.5° | 7845.1 | 7754.3 | 7643.0 | 7144.8 | 6818.6 | 6480.5 | 6245.9 | 6428.3 | 7235.6 | 5908.6 |
| 40° | 8628.4 | 8526.5 | 8422.9 | 7979.5 | 7629.3 | 7221.9 | 6839.2 | 6926.5 | 7705.5 | 6180.9 |
| 42.5° | 9090.7 | 9015.3 | 8976.0 | 8736.3 | 8465.7 | 8052.2 | 7577.1 | 7517.2 | 8233.7 | 6494.2 |
| 45° | 9070.1 | 9039.3 | 9160.9 | 9260.2 | 9196.0 | 8966.5 | 8441.8 | 8170.4 | 8763.6 | 6765.6 |
| 47.5° | 8585.6 | 8606.1 | 8877.5 | 9435.7 | 9681.4 | 9801.2 | 9426.2 | 8811.6 | 9224.2 | 6968.5 |
| 50° | 7267.2 | 7284.3 | 7912.7 | 9116.3 | 9806.3 | 10481.8 | 10403.0 | 9437.4 | 9581.2 | 7092.6 |
| 52.5° | 6223.7 | 6234.8 | 6504.5 | 8169.5 | 9393.7 | 10824.2 | 11283.1 | 10027.2 | 9842.3 | 7126.8 |
| 55° | 4687.9 | 4726.4 | 5028.6 | 6409.4 | 8320.2 | 10552.8 | 11819.0 | 10635.0 | 10007.5 | 7130.3 |
| 57.5° | 2738.6 | 2780.5 | 3153.8 | 4350.6 | 6466.8 | 9606.9 | 11900.3 | 11174.4 | 10119.7 | 7102.9 |
| 60° | 1341.5 | 1359.4 | 1522.1 | 2286.6 | 3987.6 | 7784.3 | 11246.3 | 11435.5 | 10182.2 | 7088.3 |
| 62.5° | 904.0 | 901.4 | 908.3 | 1128.3 | 1964.7 | 5001.2 | 9883.4 | 10978.3 | 10148.8 | 7032.7 |
| 65° | 777.3 | 767.9 | 742.2 | 791.9 | 1017.9 | 2287.4 | 7636.2 | 9613.7 | 9894.5 | 6893.1 |
| 67.5° | 672.0 | 672.9 | 673.7 | 658.3 | 726.8 | 1055.5 | 4666.5 | 7572.8 | 8981.9 | 6232.2 |
| 70° | 556.4 | 564.2 | 567.6 | 567.6 | 592.4 | 692.6 | 1992.1 | 5190.4 | 7084.9 | 4886.5 |
| 72.5° | 506.8 | 490.5 | 492.2 | 483.7 | 483.7 | 527.3 | 802.1 | 2942.3 | 4463.6 | 2748.9 |
| 75° | 413.5 | 423.8 | 425.5 | 419.5 | 399.8 | 402.4 | 476.0 | 1234.5 | 1909.9 | 1140.3 |
| 77.5° | 357.0 | 357.0 | 360.4 | 356.1 | 340.7 | 301.3 | 317.6 | 478.5 | 649.8 | 467.4 |
| 80° | 286.8 | 285.9 | 300.5 | 309.0 | 285.1 | 222.6 | 202.9 | 264.5 | 288.5 | 205.5 |
| 82.5° | 139.5 | 148.1 | 206.3 | 235.4 | 216.6 | 160.9 | 124.1 | 164.4 | 154.1 | 90.7 |
| 85° | 81.3 | 77.0 | 92.5 | 131.0 | 124.1 | 89.0 | 59.9 | 85.6 | 80.5 | 46.2 |
| 87.5° | 25.7 | 24.0 | 18.8 | 44.5 | 36.0 | 24.8 | 16.3 | 24.8 | 22.3 | 10.3 |
| 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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 CATALOG NUMBER: GALN-SB3C-940-U-AFL

CANDELA DISTRIBUTION (continued):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4149.4 | 0° | 4149.4 | 4149.4 | 4149.4 | 4149.4 | 4149.4 | 4149.4 | 4149.4 | 4149.4 | 4149.4 | 4149.4 |
| 4163.1 | 2.5° | 4102.3 | 4001.3 | 3901.1 | 3809.5 | 3753.9 | 3717.9 | 3682.0 | 3641.7 | 3626.3 | 3603.2 |
| 4174.2 | 5° | 4061.2 | 3866.0 | 3692.3 | 3542.4 | 3406.3 | 3299.3 | 3191.4 | 3104.1 | 3064.8 | 3091.3 |
| 4209.3 | 7.5° | 4037.3 | 3754.7 | 3486.8 | 3212.0 | 2947.5 | 2736.0 | 2552.0 | 2422.7 | 2364.5 | 2379.0 |
| 4243.6 | 10° | 4015.9 | 3628.9 | 3220.6 | 2786.5 | 2406.4 | 2144.5 | 1956.1 | 1857.7 | 1820.9 | 1828.6 |
| 4289.8 | 12.5° | 3996.2 | 3487.7 | 2899.5 | 2328.5 | 1924.5 | 1751.5 | 1697.6 | 1698.5 | 1705.3 | 1710.4 |
| 4363.4 | 15° | 3992.7 | 3317.3 | 2540.8 | 1927.9 | 1664.2 | 1653.1 | 1711.3 | 1748.1 | 1767.8 | 1773.8 |
| 4425.1 | 17.5° | 3987.6 | 3113.5 | 2175.3 | 1654.8 | 1600.9 | 1676.2 | 1730.1 | 1754.1 | 1769.5 | 1770.4 |
| 4485.0 | 20° | 3967.1 | 2855.0 | 1838.0 | 1524.7 | 1587.2 | 1652.2 | 1685.6 | 1704.4 | 1717.3 | 1721.6 |
| 4530.4 | 22.5° | 3903.7 | 2567.4 | 1575.2 | 1466.5 | 1532.4 | 1584.6 | 1624.0 | 1645.4 | 1653.1 | 1658.2 |
| 4538.9 | 25° | 3789.8 | 2245.5 | 1393.7 | 1410.8 | 1456.2 | 1522.1 | 1553.8 | 1558.1 | 1555.5 | 1563.2 |
| 4517.5 | 27.5° | 3640.9 | 1900.5 | 1280.7 | 1335.5 | 1393.7 | 1450.2 | 1467.3 | 1464.7 | 1459.6 | 1468.2 |
| 4480.7 | 30° | 3461.1 | 1590.6 | 1208.8 | 1250.7 | 1330.3 | 1381.7 | 1397.1 | 1391.1 | 1380.8 | 1390.3 |
| 4461.9 | 32.5° | 3271.1 | 1337.2 | 1149.7 | 1191.7 | 1278.1 | 1328.6 | 1344.0 | 1338.0 | 1330.3 | 1338.0 |
| 4483.3 | 35° | 3093.9 | 1160.0 | 1094.9 | 1152.3 | 1237.0 | 1286.7 | 1306.4 | 1307.2 | 1307.2 | 1316.6 |
| 4539.8 | 37.5° | 2931.2 | 1056.4 | 1049.5 | 1127.5 | 1208.8 | 1253.3 | 1281.5 | 1283.3 | 1246.4 | 1249.0 |
| 4635.6 | 40° | 2780.5 | 1012.7 | 1029.0 | 1111.2 | 1181.4 | 1224.2 | 1225.9 | 1130.0 | 1062.4 | 1060.7 |
| 4745.2 | 42.5° | 2657.3 | 1004.2 | 1035.0 | 1109.5 | 1161.7 | 1163.4 | 1042.7 | 968.2 | 949.4 | 950.2 |
| 4846.2 | 45° | 2541.7 | 1001.6 | 1048.7 | 1109.5 | 1132.6 | 1005.0 | 923.7 | 904.0 | 905.7 | 912.6 |
| 4891.6 | 47.5° | 2412.4 | 991.3 | 1051.3 | 1094.1 | 1048.7 | 893.7 | 869.8 | 861.2 | 857.8 | 859.5 |
| 4881.3 | 50° | 2271.2 | 954.5 | 1018.7 | 1063.2 | 904.9 | 845.8 | 815.8 | 813.3 | 817.6 | 820.1 |
| 4824.0 | 52.5° | 2122.2 | 894.6 | 963.1 | 1007.6 | 839.0 | 803.9 | 770.5 | 776.5 | 795.3 | 801.3 |
| 4764.1 | 55° | 2024.6 | 824.4 | 889.5 | 896.3 | 792.7 | 764.5 | 736.2 | 749.9 | 785.0 | 796.2 |
| 4728.1 | 57.5° | 1998.9 | 749.9 | 805.6 | 797.9 | 733.7 | 730.2 | 713.1 | 725.1 | 769.6 | 785.9 |
| 4726.4 | 60° | 1991.2 | 683.1 | 723.4 | 717.4 | 676.3 | 692.6 | 688.3 | 694.3 | 709.7 | 714.8 |
| 4709.3 | 62.5° | 1931.3 | 630.1 | 649.8 | 641.2 | 624.9 | 653.2 | 663.5 | 650.6 | 662.6 | 668.6 |
| 4592.0 | 65° | 1778.9 | 587.3 | 577.9 | 571.9 | 578.7 | 604.4 | 624.9 | 599.3 | 610.4 | 627.5 |
| 4140.0 | 67.5° | 1527.2 | 529.1 | 503.4 | 510.2 | 531.6 | 545.3 | 571.9 | 542.8 | 552.2 | 581.3 |
| 3334.4 | 70° | 1235.3 | 455.4 | 432.3 | 452.0 | 472.6 | 500.8 | 505.1 | 485.4 | 507.7 | 540.2 |
| 2034.9 | 72.5° | 874.1 | 381.0 | 364.7 | 404.9 | 411.8 | 448.6 | 439.2 | 429.7 | 460.6 | 471.7 |
| 1005.9 | 75° | 606.1 | 307.3 | 297.9 | 328.7 | 353.6 | 385.2 | 378.4 | 389.5 | 454.6 | 459.7 |
| 502.5 | 77.5° | 383.5 | 238.8 | 232.9 | 252.5 | 286.8 | 321.9 | 333.0 | 459.7 | 776.5 | 807.3 |
| 261.1 | 80° | 222.6 | 178.1 | 171.2 | 186.6 | 216.6 | 249.1 | 321.0 | 564.2 | 511.9 | 505.9 |
| 117.3 | 82.5° | 124.1 | 122.4 | 113.9 | 118.1 | 144.7 | 179.8 | 453.7 | 397.2 | 322.7 | 333.0 |
| 47.1 | 85° | 58.2 | 71.9 | 61.6 | 59.1 | 81.3 | 210.6 | 303.1 | 226.9 | 150.7 | 147.2 |
| 10.3 | 87.5° | 15.4 | 13.7 | 13.7 | 15.4 | 34.2 | 181.5 | 120.7 | 96.7 | 57.4 | 55.6 |
| 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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