

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: P948697

Luminaire Tested: **GALN-SB3C-935-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948697
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-935-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15897 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

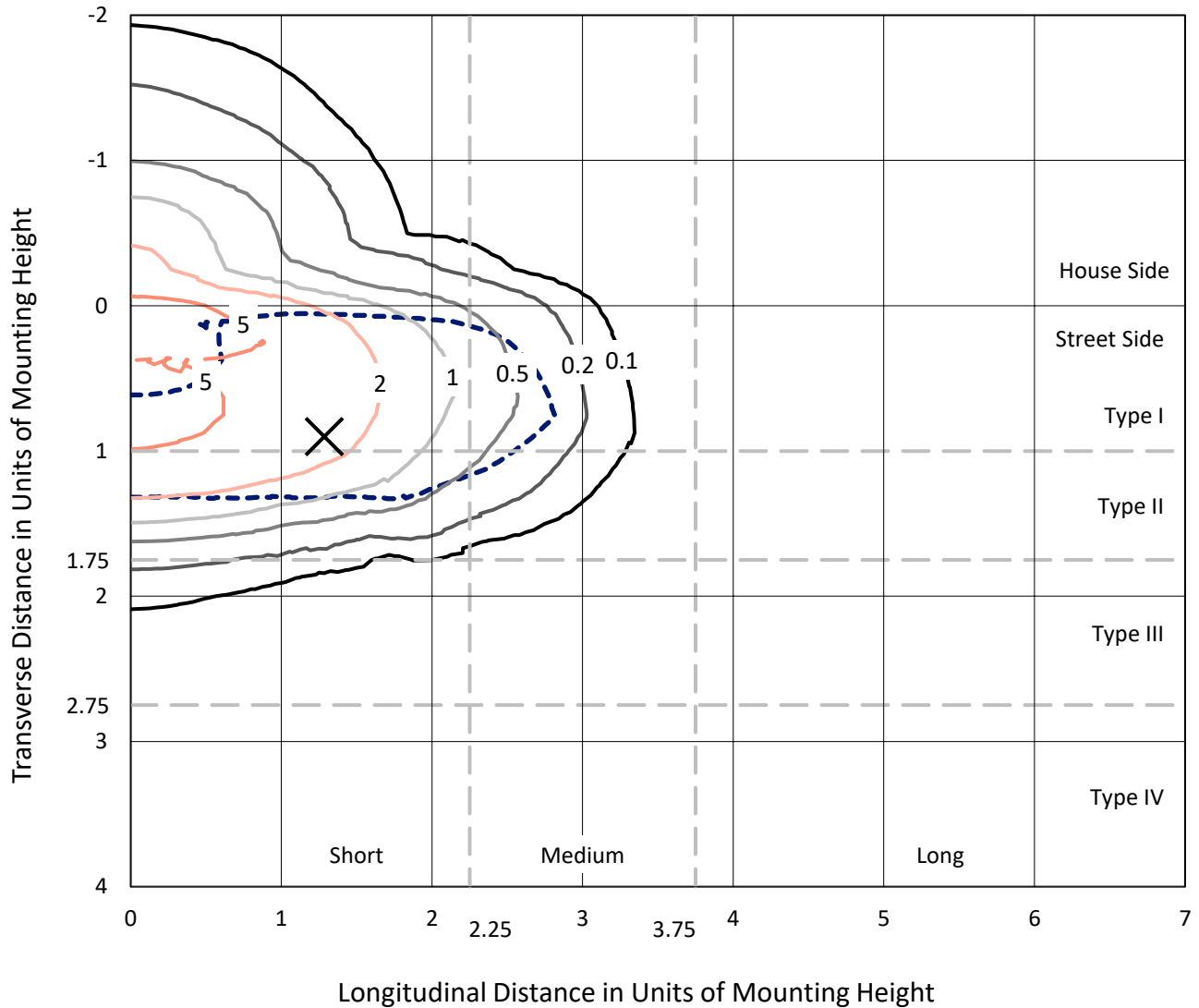
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

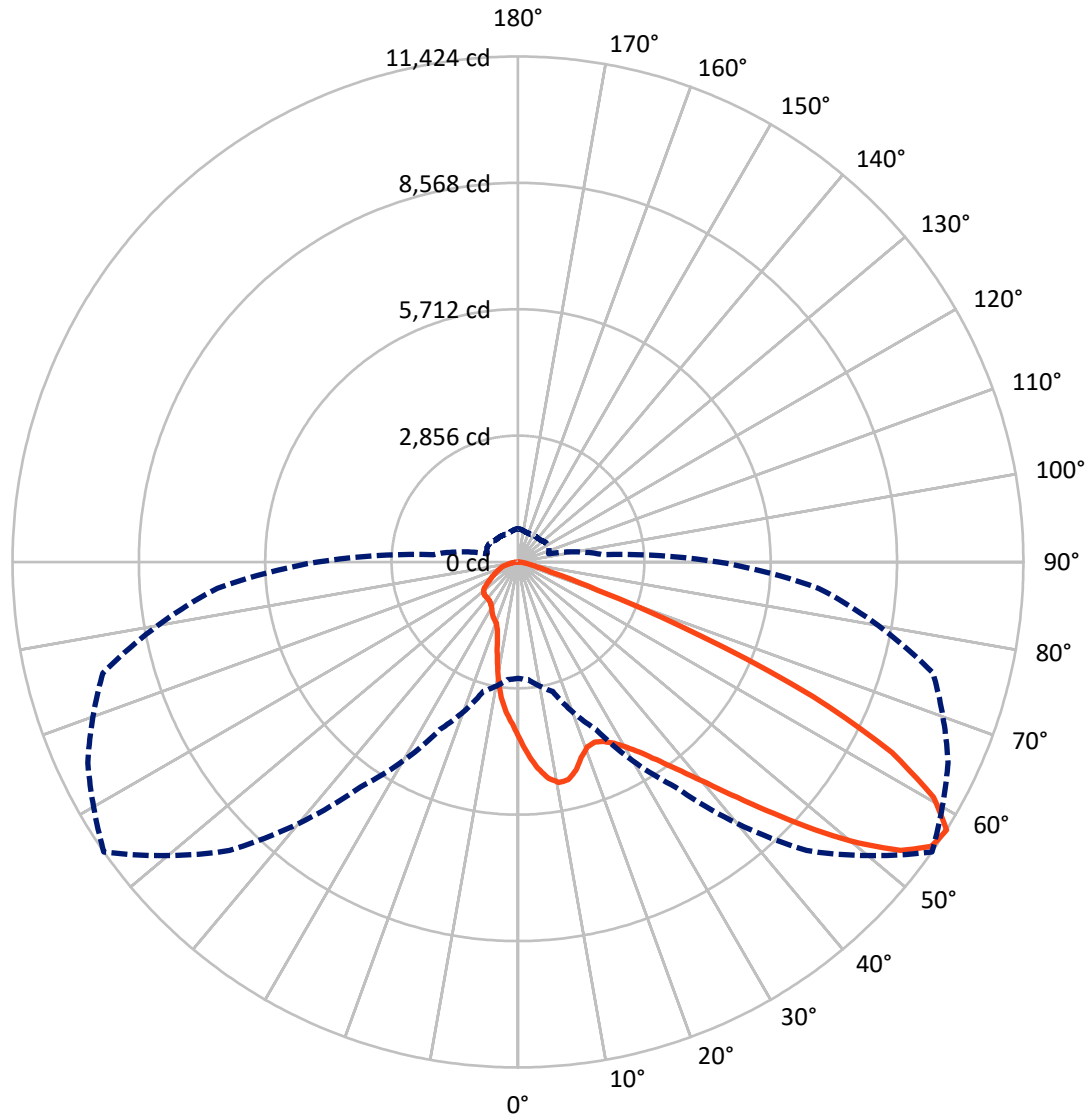
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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 | 2876.5 | 0.0 | 2876.5 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 13020.5 | 0.0 | 13020.5 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 15897.0 | 0.0 | 15897.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 369.6 | 2.3 |
| 10°-20° | 932.9 | 5.9 |
| 20°-30° | 1488.7 | 9.4 |
| 30°-40° | 2357.0 | 14.8 |
| 40°-50° | 3607.6 | 22.7 |
| 50°-60° | 3864.1 | 24.3 |
| 60°-70° | 2430.9 | 15.3 |
| 70°-80° | 718.9 | 4.5 |
| 80°-90° | 127.1 | 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° | 15897.0 | 100.0 |
| 0°-180° | 15897.0 | 100.0 |

Coefficient of Utilization



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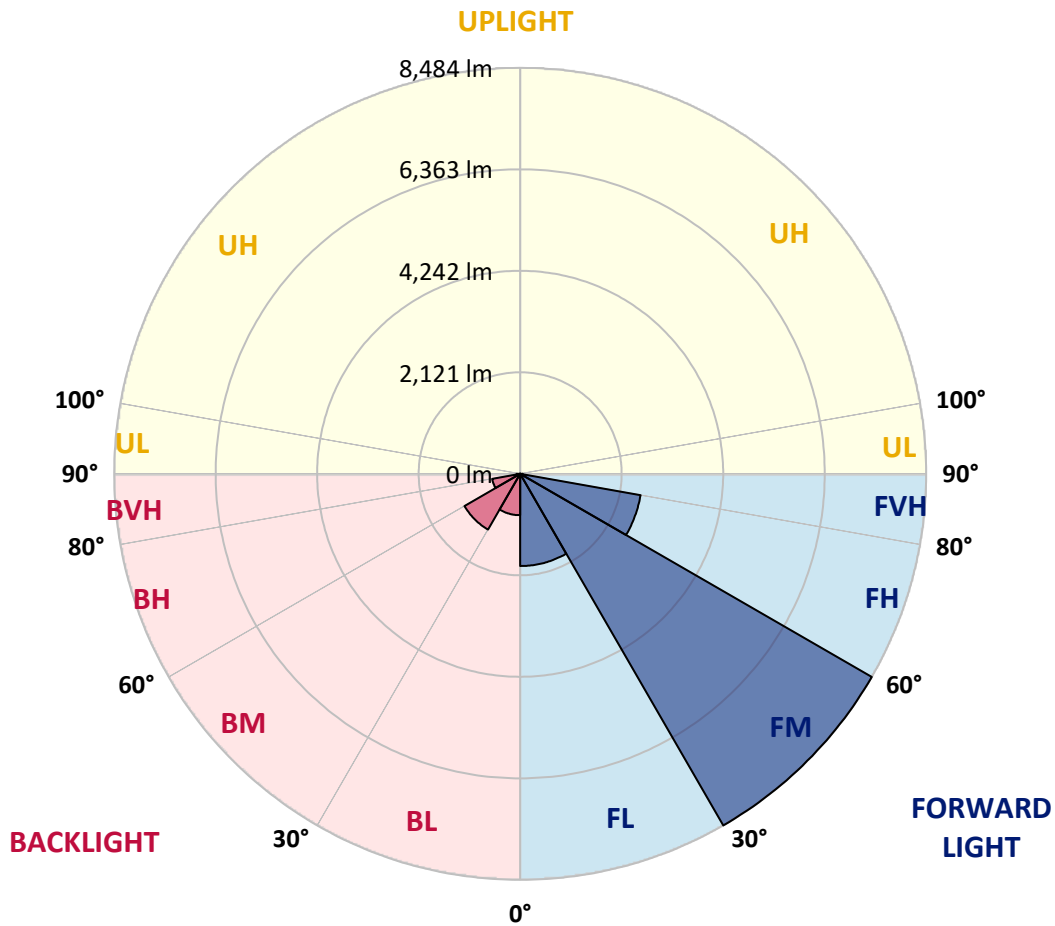
CATALOG NUMBER: GALN-SB3C-935-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1926.7 | 12.1 | | | |
| FM (30°-60°) | 8484.3 | 53.4 | | | |
| FH (60°-80°) | 2555.8 | 16.1 | | | G2/5000 |
| FVH (80°-90°) | 53.7 | 0.3 | | | G1/100 |
| BL (0°-30°) | 864.6 | 5.4 | B2/1000 | | |
| BM (30°-60°) | 1344.4 | 8.5 | B2/2500 | | |
| BH (60°-80°) | 594.1 | 3.7 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 73.4 | 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° | 3983.3 | 3983.3 | 3983.3 | 3983.3 | 3983.3 | 3983.3 | 3983.3 | 3983.3 | 3983.3 | 3983.3 |
| 2.5° | 4570.0 | 4566.8 | 4584.8 | 4523.2 | 4481.3 | 4424.6 | 4349.8 | 4254.5 | 4151.7 | 4043.3 |
| 5° | 4981.8 | 4953.0 | 4971.9 | 4925.9 | 4879.9 | 4794.4 | 4683.4 | 4528.1 | 4338.3 | 4122.2 |
| 7.5° | 4916.8 | 4897.1 | 4945.6 | 4986.7 | 5021.2 | 5010.5 | 4929.2 | 4766.4 | 4521.6 | 4207.6 |
| 10° | 4393.4 | 4371.2 | 4439.4 | 4581.5 | 4790.3 | 4971.9 | 5070.5 | 4969.4 | 4708.9 | 4301.3 |
| 12.5° | 3931.5 | 3920.8 | 3966.0 | 4081.1 | 4312.8 | 4661.3 | 5052.4 | 5146.9 | 4903.7 | 4412.3 |
| 15° | 3734.3 | 3721.1 | 3749.9 | 3808.2 | 3956.2 | 4280.8 | 4888.1 | 5268.6 | 5095.2 | 4540.5 |
| 17.5° | 3690.7 | 3675.9 | 3688.2 | 3718.7 | 3814.0 | 4061.3 | 4639.9 | 5328.6 | 5294.9 | 4683.4 |
| 20° | 3771.2 | 3758.9 | 3760.6 | 3758.9 | 3825.5 | 4021.9 | 4467.3 | 5305.6 | 5469.1 | 4814.9 |
| 22.5° | 3966.0 | 3945.5 | 3946.3 | 3902.7 | 3938.9 | 4090.9 | 4422.1 | 5243.9 | 5624.4 | 4930.0 |
| 25° | 4283.2 | 4246.2 | 4253.6 | 4142.7 | 4132.8 | 4245.4 | 4492.8 | 5196.3 | 5778.9 | 5022.0 |
| 27.5° | 4717.1 | 4675.2 | 4653.0 | 4487.9 | 4409.0 | 4464.8 | 4636.6 | 5212.7 | 5925.2 | 5101.7 |
| 30° | 5259.5 | 5208.6 | 5163.4 | 4929.2 | 4786.2 | 4765.6 | 4860.1 | 5321.2 | 6097.8 | 5185.6 |
| 32.5° | 5924.4 | 5865.2 | 5783.0 | 5472.4 | 5271.0 | 5163.4 | 5149.4 | 5514.3 | 6299.9 | 5292.4 |
| 35° | 6715.8 | 6638.5 | 6521.8 | 6120.0 | 5865.2 | 5645.0 | 5530.7 | 5792.9 | 6576.9 | 5453.5 |
| 37.5° | 7531.0 | 7443.9 | 7337.0 | 6858.8 | 6545.6 | 6221.0 | 5995.9 | 6170.9 | 6945.9 | 5672.1 |
| 40° | 8282.9 | 8185.1 | 8085.7 | 7660.0 | 7323.9 | 6932.7 | 6565.4 | 6649.2 | 7397.0 | 5933.4 |
| 42.5° | 8726.7 | 8654.4 | 8616.6 | 8386.5 | 8126.8 | 7729.9 | 7273.8 | 7216.2 | 7904.1 | 6234.2 |
| 45° | 8707.0 | 8677.4 | 8794.1 | 8889.4 | 8827.8 | 8607.5 | 8103.8 | 7843.3 | 8412.8 | 6494.7 |
| 47.5° | 8241.8 | 8261.6 | 8522.1 | 9057.9 | 9293.8 | 9408.8 | 9048.9 | 8458.8 | 8854.9 | 6689.5 |
| 50° | 6976.3 | 6992.7 | 7595.9 | 8751.4 | 9413.7 | 10062.1 | 9986.5 | 9059.5 | 9197.6 | 6808.6 |
| 52.5° | 5974.5 | 5985.2 | 6244.0 | 7842.5 | 9017.6 | 10390.9 | 10831.3 | 9625.8 | 9448.3 | 6841.5 |
| 55° | 4500.2 | 4537.2 | 4827.3 | 6152.8 | 7987.1 | 10130.3 | 11345.8 | 10209.2 | 9606.9 | 6844.8 |
| 57.5° | 2628.9 | 2669.2 | 3027.5 | 4176.4 | 6207.9 | 9222.3 | 11423.9 | 10727.0 | 9714.5 | 6818.5 |
| 60° | 1287.8 | 1305.0 | 1461.2 | 2195.0 | 3828.0 | 7472.6 | 10796.0 | 10977.6 | 9774.5 | 6804.5 |
| 62.5° | 867.8 | 865.4 | 871.9 | 1083.1 | 1886.0 | 4801.0 | 9487.7 | 10538.8 | 9742.5 | 6751.1 |
| 65° | 746.2 | 737.2 | 712.5 | 760.2 | 977.1 | 2195.9 | 7330.5 | 9228.8 | 9498.4 | 6617.1 |
| 67.5° | 645.1 | 645.9 | 646.8 | 632.0 | 697.7 | 1013.3 | 4479.6 | 7269.7 | 8622.3 | 5982.7 |
| 70° | 534.2 | 541.6 | 544.9 | 544.9 | 568.7 | 664.8 | 1912.3 | 4982.6 | 6801.2 | 4690.8 |
| 72.5° | 486.5 | 470.9 | 472.5 | 464.3 | 464.3 | 506.2 | 770.0 | 2824.5 | 4284.9 | 2638.8 |
| 75° | 396.9 | 406.8 | 408.4 | 402.7 | 383.8 | 386.2 | 456.9 | 1185.0 | 1833.4 | 1094.6 |
| 77.5° | 342.7 | 342.7 | 346.0 | 341.9 | 327.1 | 289.3 | 304.9 | 459.4 | 623.7 | 448.7 |
| 80° | 275.3 | 274.5 | 288.5 | 296.7 | 273.7 | 213.7 | 194.8 | 253.9 | 276.9 | 197.2 |
| 82.5° | 134.0 | 142.2 | 198.1 | 226.0 | 207.9 | 154.5 | 119.2 | 157.8 | 147.9 | 87.1 |
| 85° | 78.1 | 74.0 | 88.8 | 125.7 | 119.2 | 85.5 | 57.5 | 82.2 | 77.2 | 44.4 |
| 87.5° | 24.7 | 23.0 | 18.1 | 42.7 | 34.5 | 23.8 | 15.6 | 23.8 | 21.4 | 9.9 |
| 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° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3983.3 | 0° | 3983.3 | 3983.3 | 3983.3 | 3983.3 | 3983.3 | 3983.3 | 3983.3 | 3983.3 | 3983.3 | 3983.3 |
| 3996.4 | 2.5° | 3938.1 | 3841.1 | 3744.9 | 3657.0 | 3603.6 | 3569.1 | 3534.6 | 3495.9 | 3481.2 | 3459.0 |
| 4007.1 | 5° | 3898.6 | 3711.3 | 3544.4 | 3400.6 | 3269.9 | 3167.2 | 3063.7 | 2979.9 | 2942.0 | 2967.5 |
| 4040.8 | 7.5° | 3875.6 | 3604.4 | 3347.2 | 3083.4 | 2829.5 | 2626.5 | 2449.8 | 2325.7 | 2269.8 | 2283.8 |
| 4073.7 | 10° | 3855.1 | 3483.6 | 3091.6 | 2675.0 | 2310.1 | 2058.6 | 1877.8 | 1783.3 | 1748.0 | 1755.4 |
| 4118.0 | 12.5° | 3836.2 | 3348.0 | 2783.4 | 2235.3 | 1847.4 | 1681.4 | 1629.6 | 1630.5 | 1637.0 | 1642.0 |
| 4188.7 | 15° | 3832.9 | 3184.5 | 2439.1 | 1850.7 | 1597.6 | 1586.9 | 1642.8 | 1678.1 | 1697.0 | 1702.8 |
| 4247.9 | 17.5° | 3828.0 | 2988.9 | 2088.2 | 1588.5 | 1536.8 | 1609.1 | 1660.9 | 1683.9 | 1698.7 | 1699.5 |
| 4305.4 | 20° | 3808.2 | 2740.7 | 1764.4 | 1463.6 | 1523.6 | 1586.1 | 1618.1 | 1636.2 | 1648.5 | 1652.6 |
| 4349.0 | 22.5° | 3747.4 | 2464.6 | 1512.1 | 1407.7 | 1471.0 | 1521.2 | 1559.0 | 1579.5 | 1586.9 | 1591.8 |
| 4357.2 | 25° | 3638.1 | 2155.6 | 1337.9 | 1354.3 | 1397.9 | 1461.2 | 1491.6 | 1495.7 | 1493.2 | 1500.6 |
| 4336.6 | 27.5° | 3495.1 | 1824.4 | 1229.4 | 1282.0 | 1337.9 | 1392.1 | 1408.6 | 1406.1 | 1401.2 | 1409.4 |
| 4301.3 | 30° | 3322.5 | 1526.9 | 1160.4 | 1200.7 | 1277.1 | 1326.4 | 1341.2 | 1335.4 | 1325.6 | 1334.6 |
| 4283.2 | 32.5° | 3140.1 | 1283.7 | 1103.7 | 1143.9 | 1226.9 | 1275.4 | 1290.2 | 1284.5 | 1277.1 | 1284.5 |
| 4303.8 | 35° | 2970.0 | 1113.5 | 1051.1 | 1106.1 | 1187.5 | 1235.2 | 1254.1 | 1254.9 | 1254.9 | 1263.9 |
| 4358.0 | 37.5° | 2813.8 | 1014.1 | 1007.5 | 1082.3 | 1160.4 | 1203.1 | 1230.2 | 1231.9 | 1196.5 | 1199.0 |
| 4450.1 | 40° | 2669.2 | 972.2 | 987.8 | 1066.7 | 1134.1 | 1175.2 | 1176.8 | 1084.8 | 1019.9 | 1018.2 |
| 4555.2 | 42.5° | 2550.9 | 964.0 | 993.6 | 1065.1 | 1115.2 | 1116.8 | 1001.0 | 929.5 | 911.4 | 912.2 |
| 4652.2 | 45° | 2439.9 | 961.5 | 1006.7 | 1065.1 | 1087.2 | 964.8 | 886.7 | 867.8 | 869.5 | 876.0 |
| 4695.8 | 47.5° | 2315.8 | 951.6 | 1009.2 | 1050.3 | 1006.7 | 858.0 | 835.0 | 826.7 | 823.4 | 825.1 |
| 4685.9 | 50° | 2180.2 | 916.3 | 977.9 | 1020.7 | 868.6 | 811.9 | 783.2 | 780.7 | 784.8 | 787.3 |
| 4630.9 | 52.5° | 2037.2 | 858.8 | 924.5 | 967.3 | 805.4 | 771.7 | 739.6 | 745.4 | 763.5 | 769.2 |
| 4573.3 | 55° | 1943.6 | 791.4 | 853.9 | 860.4 | 761.0 | 733.9 | 706.7 | 719.9 | 753.6 | 764.3 |
| 4538.8 | 57.5° | 1918.9 | 719.9 | 773.3 | 765.9 | 704.3 | 701.0 | 684.6 | 696.1 | 738.8 | 754.4 |
| 4537.2 | 60° | 1911.5 | 655.8 | 694.4 | 688.7 | 649.2 | 664.8 | 660.7 | 666.5 | 681.3 | 686.2 |
| 4520.7 | 62.5° | 1854.0 | 604.8 | 623.7 | 615.5 | 599.9 | 627.0 | 636.9 | 624.6 | 636.1 | 641.8 |
| 4408.1 | 65° | 1707.7 | 563.8 | 554.7 | 549.0 | 555.5 | 580.2 | 599.9 | 575.3 | 585.9 | 602.4 |
| 3974.2 | 67.5° | 1466.1 | 507.9 | 483.2 | 489.8 | 510.3 | 523.5 | 549.0 | 521.0 | 530.1 | 558.0 |
| 3200.9 | 70° | 1185.9 | 437.2 | 415.0 | 433.9 | 453.6 | 480.8 | 484.9 | 466.0 | 487.3 | 518.6 |
| 1953.4 | 72.5° | 839.1 | 365.7 | 350.1 | 388.7 | 395.3 | 430.6 | 421.6 | 412.5 | 442.1 | 452.8 |
| 965.6 | 75° | 581.8 | 295.0 | 286.0 | 315.6 | 339.4 | 369.8 | 363.2 | 373.9 | 436.4 | 441.3 |
| 482.4 | 77.5° | 368.2 | 229.3 | 223.5 | 242.4 | 275.3 | 309.0 | 319.7 | 441.3 | 745.4 | 775.0 |
| 250.6 | 80° | 213.7 | 170.9 | 164.4 | 179.2 | 207.9 | 239.1 | 308.2 | 541.6 | 491.4 | 485.7 |
| 112.6 | 82.5° | 119.2 | 117.5 | 109.3 | 113.4 | 138.9 | 172.6 | 435.6 | 381.3 | 309.8 | 319.7 |
| 45.2 | 85° | 55.9 | 69.0 | 59.2 | 56.7 | 78.1 | 202.2 | 290.9 | 217.8 | 144.6 | 141.3 |
| 9.9 | 87.5° | 14.8 | 13.1 | 13.1 | 14.8 | 32.9 | 174.2 | 115.9 | 92.9 | 55.1 | 53.4 |
| 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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