

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: P950691

Luminaire Tested: **GALN-SB5A-827-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950691
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5A-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16800 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

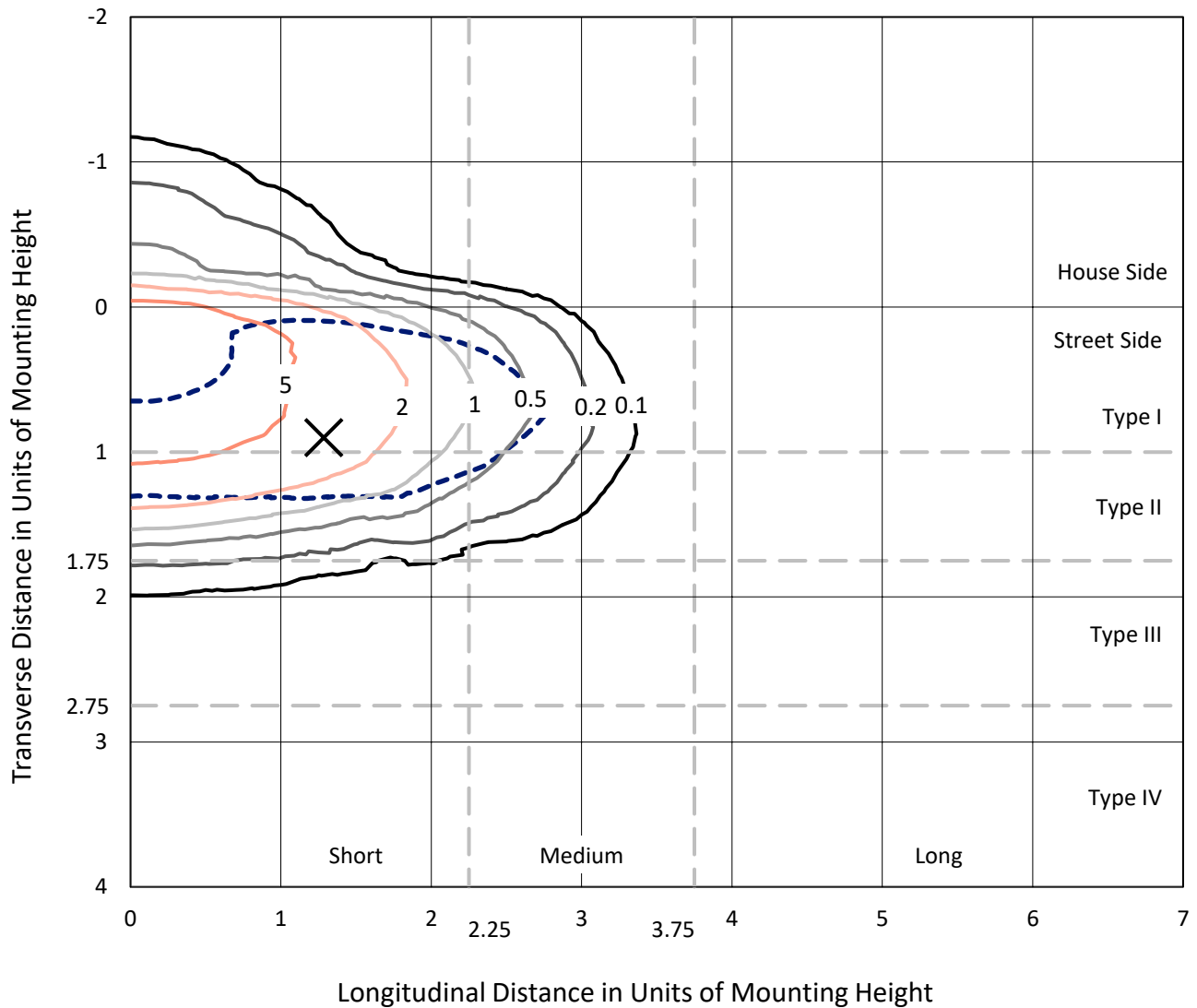
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

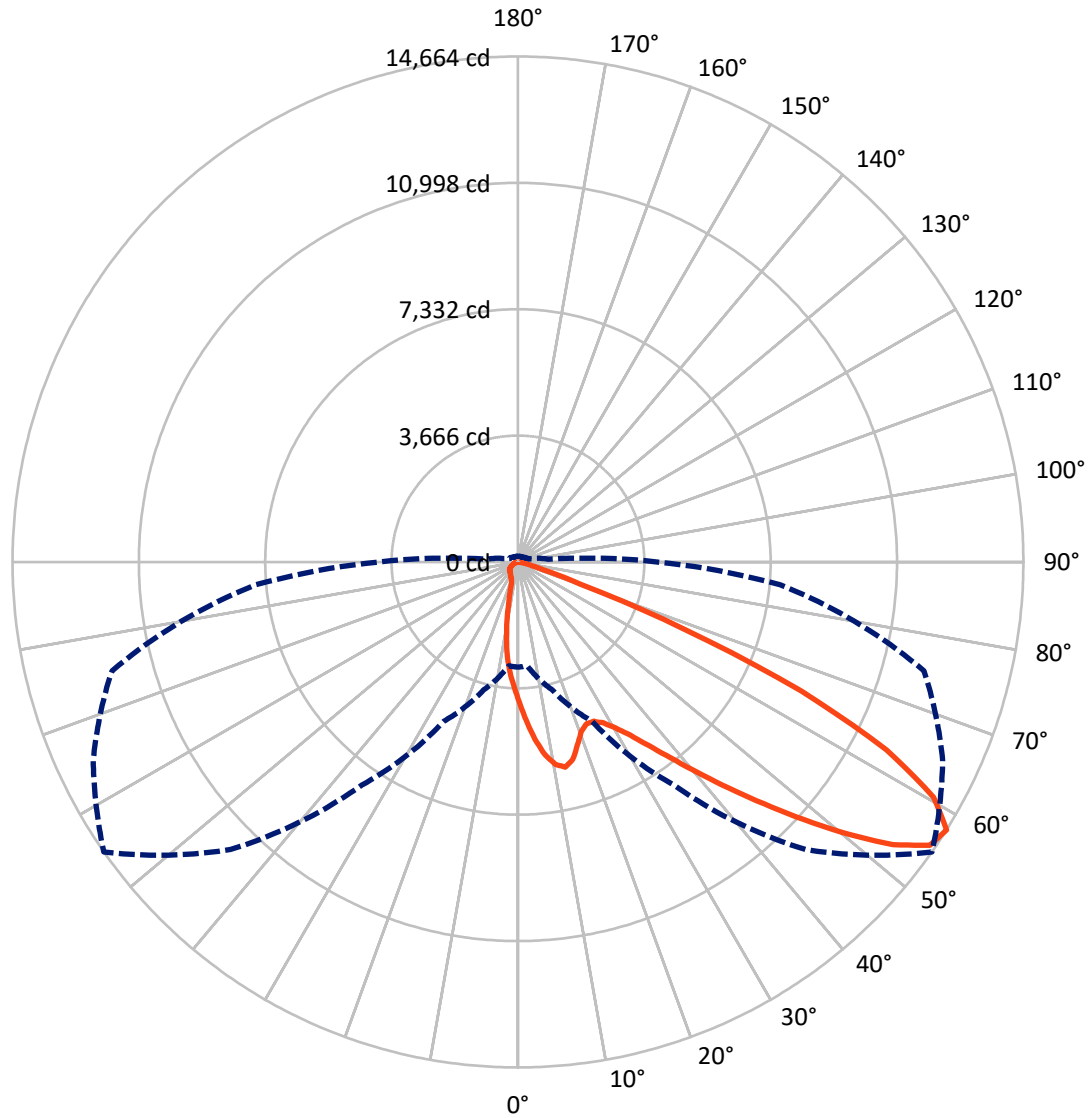
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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 | 1312.0 | 0.0 | 1312.0 |
| | % Fixture | 7.8 | 0.0 | 7.8 |
| Street Side | Lumens | 15488.0 | 0.0 | 15488.0 |
| | % Fixture | 92.2 | 0.0 | 92.2 |
| Total | Lumens | 16800.0 | 0.0 | 16800.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 376.7 | 2.2 |
| 10°-20° | 909.9 | 5.4 |
| 20°-30° | 1455.8 | 8.7 |
| 30°-40° | 2464.0 | 14.7 |
| 40°-50° | 4045.4 | 24.1 |
| 50°-60° | 4446.1 | 26.5 |
| 60°-70° | 2550.3 | 15.2 |
| 70°-80° | 521.1 | 3.1 |
| 80°-90° | 30.7 | 0.2 |
| 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° | 16800.0 | 100.0 |
| 0°-180° | 16800.0 | 100.0 |

Coefficient of Utilization



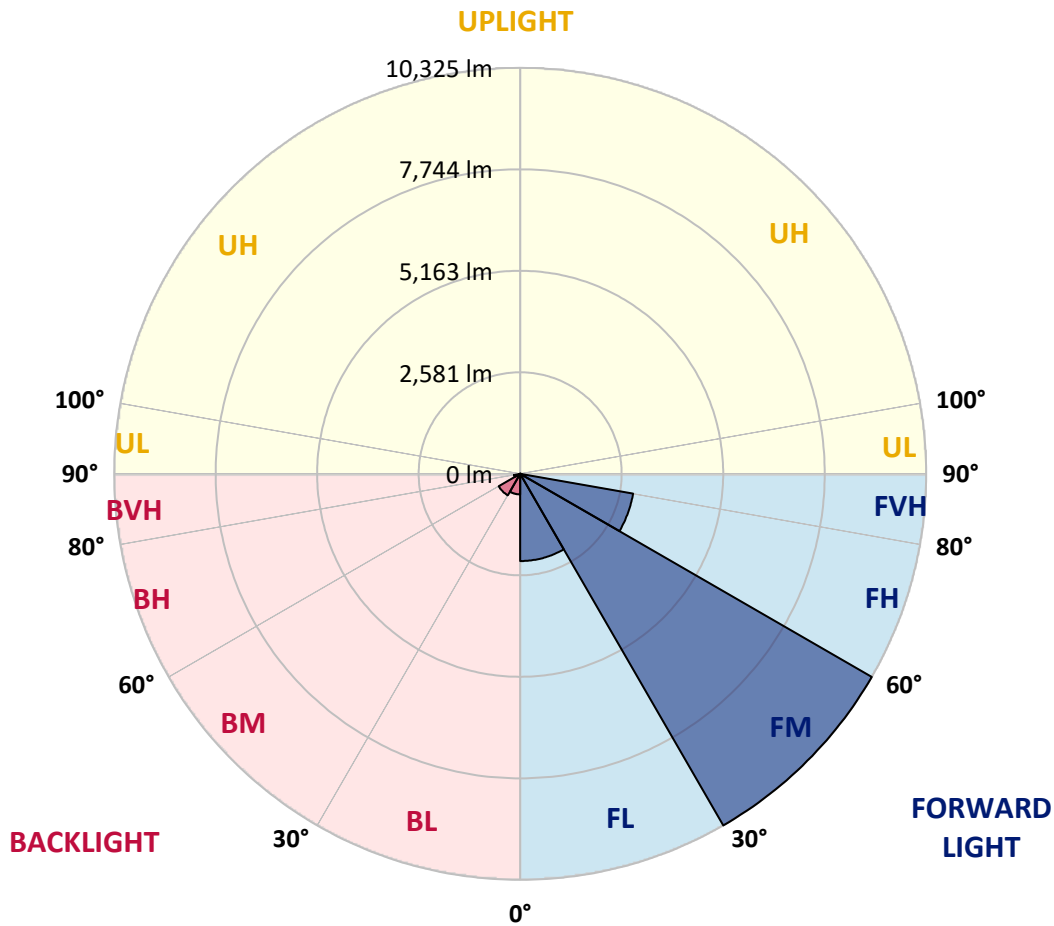
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2218.5 | 13.2 | | | |
| FM (30°-60°) | 10325.4 | 61.5 | | | |
| FH (60°-80°) | 2915.4 | 17.4 | | | G2/5000 |
| FVH (80°-90°) | 28.7 | 0.2 | | | G1/100 |
| BL (0°-30°) | 523.8 | 3.1 | B2/1000 | | |
| BM (30°-60°) | 630.1 | 3.8 | B1/1000 | | |
| BH (60°-80°) | 156.0 | 0.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.1 | 0.0 | | | G0/10 |
| 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° | 4048.4 | 4048.4 | 4048.4 | 4048.4 | 4048.4 | 4048.4 | 4048.4 | 4048.4 | 4048.4 | 4048.4 |
| 2.5° | 5023.2 | 4960.0 | 4950.7 | 4938.2 | 4818.1 | 4728.0 | 4597.4 | 4454.5 | 4293.9 | 4130.2 |
| 5° | 5803.2 | 5753.5 | 5744.2 | 5686.2 | 5549.4 | 5396.1 | 5164.1 | 4870.9 | 4571.5 | 4219.3 |
| 7.5° | 5954.5 | 5945.2 | 5987.6 | 5985.6 | 5966.9 | 5845.7 | 5649.9 | 5300.8 | 4851.2 | 4329.1 |
| 10° | 5280.1 | 5303.9 | 5430.3 | 5541.2 | 5840.5 | 6014.6 | 5972.1 | 5684.1 | 5139.2 | 4454.5 |
| 12.5° | 4665.8 | 4637.8 | 4728.0 | 4853.3 | 5201.4 | 5719.3 | 6105.7 | 6004.2 | 5468.6 | 4596.4 |
| 15° | 4280.4 | 4269.0 | 4319.8 | 4377.8 | 4643.0 | 5165.1 | 5950.3 | 6264.2 | 5785.6 | 4764.2 |
| 17.5° | 4157.2 | 4147.8 | 4163.4 | 4177.9 | 4349.8 | 4753.8 | 5580.5 | 6423.8 | 6089.2 | 4955.9 |
| 20° | 4257.6 | 4245.2 | 4243.1 | 4231.7 | 4303.2 | 4578.8 | 5245.9 | 6435.2 | 6361.6 | 5129.9 |
| 22.5° | 4550.8 | 4536.3 | 4485.5 | 4440.0 | 4446.2 | 4602.6 | 5096.7 | 6321.2 | 6566.7 | 5292.5 |
| 25° | 5082.2 | 5058.4 | 4952.7 | 4799.4 | 4702.1 | 4768.4 | 5119.5 | 6171.0 | 6762.5 | 5419.9 |
| 27.5° | 5747.3 | 5716.2 | 5580.5 | 5352.6 | 5129.9 | 5049.1 | 5284.2 | 6067.4 | 6925.1 | 5517.3 |
| 30° | 6398.9 | 6358.5 | 6224.9 | 6047.7 | 5722.4 | 5467.6 | 5581.6 | 6113.0 | 7118.9 | 5618.8 |
| 32.5° | 7102.3 | 7064.0 | 6886.8 | 6667.2 | 6397.9 | 6055.0 | 5988.7 | 6335.7 | 7356.1 | 5760.8 |
| 35° | 7992.1 | 7932.1 | 7680.3 | 7380.9 | 7095.0 | 6748.0 | 6539.8 | 6720.0 | 7672.0 | 5977.3 |
| 37.5° | 9005.3 | 8924.5 | 8653.1 | 8239.7 | 7866.8 | 7478.3 | 7211.1 | 7248.4 | 8135.1 | 6267.3 |
| 40° | 9960.4 | 9886.8 | 9636.2 | 9246.6 | 8778.4 | 8307.1 | 8022.2 | 7939.3 | 8774.3 | 6620.6 |
| 42.5° | 10533.3 | 10467.0 | 10361.3 | 10196.6 | 9801.9 | 9321.2 | 8961.8 | 8782.6 | 9530.5 | 7043.2 |
| 45° | 10565.4 | 10507.4 | 10649.3 | 10840.9 | 10763.2 | 10443.1 | 10004.9 | 9676.6 | 10289.8 | 7440.0 |
| 47.5° | 10051.6 | 10012.2 | 10443.1 | 11112.3 | 11445.9 | 11580.6 | 11176.6 | 10496.0 | 10916.6 | 7724.9 |
| 50° | 8651.0 | 8636.5 | 9523.2 | 10751.8 | 11705.9 | 12577.1 | 12412.4 | 11258.4 | 11402.4 | 7872.0 |
| 52.5° | 7501.1 | 7448.3 | 7965.2 | 9597.8 | 11327.8 | 13101.3 | 13620.3 | 12006.3 | 11742.2 | 7899.9 |
| 55° | 5689.3 | 5642.7 | 6291.2 | 7666.9 | 10108.5 | 12914.8 | 14504.0 | 12778.1 | 11985.6 | 7828.5 |
| 57.5° | 3051.8 | 3022.8 | 3842.2 | 5103.0 | 7902.0 | 11796.1 | 14663.5 | 13594.4 | 12190.7 | 7638.9 |
| 60° | 1188.2 | 1183.0 | 1489.7 | 2475.9 | 4802.5 | 9596.8 | 13858.6 | 14084.4 | 12319.2 | 7405.8 |
| 62.5° | 718.9 | 734.5 | 784.2 | 1111.5 | 2121.6 | 5961.7 | 12003.2 | 13527.1 | 12405.2 | 7192.4 |
| 65° | 594.6 | 595.7 | 601.9 | 763.5 | 1016.2 | 2494.5 | 9036.4 | 11693.5 | 12192.8 | 6812.2 |
| 67.5° | 509.7 | 519.0 | 542.8 | 606.0 | 716.9 | 1093.9 | 5202.4 | 9058.1 | 10901.0 | 5927.5 |
| 70° | 401.9 | 414.4 | 444.4 | 498.3 | 553.2 | 684.7 | 1922.7 | 6027.0 | 8327.8 | 4467.9 |
| 72.5° | 338.7 | 337.7 | 353.2 | 405.0 | 439.2 | 481.7 | 739.6 | 3377.1 | 4839.8 | 2133.0 |
| 75° | 262.1 | 272.4 | 292.1 | 338.7 | 359.5 | 349.1 | 400.9 | 1233.8 | 1734.1 | 646.4 |
| 77.5° | 205.1 | 213.4 | 231.0 | 276.6 | 297.3 | 247.6 | 231.0 | 441.3 | 557.3 | 232.0 |
| 80° | 92.2 | 99.4 | 157.5 | 204.1 | 242.4 | 170.9 | 125.3 | 225.8 | 247.6 | 105.7 |
| 82.5° | 16.6 | 28.0 | 92.2 | 107.7 | 124.3 | 110.8 | 65.3 | 117.1 | 121.2 | 42.5 |
| 85° | 1.0 | 2.1 | 32.1 | 39.4 | 49.7 | 36.3 | 19.7 | 46.6 | 40.4 | 14.5 |
| 87.5° | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 | 5.2 | 6.2 | 8.3 | 6.2 | 5.2 |
| 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° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4048.4 | 0° | 4048.4 | 4048.4 | 4048.4 | 4048.4 | 4048.4 | 4048.4 | 4048.4 | 4048.4 | 4048.4 | 4048.4 |
| 4057.7 | 2.5° | 3983.1 | 3836.0 | 3693.1 | 3576.0 | 3507.6 | 3391.6 | 3315.0 | 3302.5 | 3270.4 | 3298.4 |
| 4068.1 | 5° | 3906.5 | 3643.3 | 3377.1 | 3138.8 | 2943.1 | 2690.3 | 2501.8 | 2422.0 | 2352.6 | 2376.4 |
| 4095.0 | 7.5° | 3870.2 | 3454.8 | 3040.4 | 2633.3 | 2214.8 | 1810.8 | 1510.4 | 1385.0 | 1289.7 | 1303.2 |
| 4125.0 | 10° | 3821.5 | 3259.0 | 2609.5 | 1987.9 | 1427.5 | 1028.7 | 821.5 | 744.8 | 702.4 | 703.4 |
| 4169.6 | 12.5° | 3784.2 | 3024.9 | 2109.1 | 1347.7 | 869.1 | 656.8 | 592.5 | 573.9 | 561.5 | 562.5 |
| 4236.9 | 15° | 3765.6 | 2749.3 | 1615.0 | 898.1 | 621.6 | 556.3 | 540.8 | 532.5 | 524.2 | 523.1 |
| 4311.5 | 17.5° | 3734.5 | 2442.7 | 1182.0 | 655.7 | 543.9 | 521.1 | 507.6 | 498.3 | 487.9 | 485.8 |
| 4375.7 | 20° | 3687.9 | 2094.6 | 864.0 | 554.2 | 509.7 | 492.1 | 473.4 | 461.0 | 448.6 | 446.5 |
| 4416.1 | 22.5° | 3601.9 | 1726.9 | 664.0 | 512.8 | 484.8 | 465.1 | 442.3 | 427.8 | 415.4 | 413.3 |
| 4396.5 | 25° | 3442.4 | 1381.9 | 559.4 | 486.9 | 463.1 | 439.2 | 414.4 | 394.7 | 383.3 | 381.2 |
| 4354.0 | 27.5° | 3240.4 | 1085.6 | 507.6 | 463.1 | 435.1 | 413.3 | 385.4 | 366.7 | 356.4 | 354.3 |
| 4298.0 | 30° | 3002.1 | 836.0 | 477.6 | 436.1 | 401.9 | 383.3 | 358.4 | 342.9 | 336.7 | 336.7 |
| 4258.7 | 32.5° | 2745.2 | 668.2 | 465.1 | 409.2 | 372.9 | 352.2 | 332.5 | 326.3 | 324.2 | 323.2 |
| 4280.4 | 35° | 2503.8 | 580.1 | 458.9 | 387.4 | 347.0 | 327.4 | 319.1 | 320.1 | 324.2 | 324.2 |
| 4347.8 | 37.5° | 2289.4 | 552.1 | 455.8 | 371.9 | 324.2 | 306.6 | 311.8 | 321.1 | 317.0 | 317.0 |
| 4465.9 | 40° | 2095.7 | 555.3 | 453.7 | 360.5 | 305.6 | 295.2 | 305.6 | 298.3 | 288.0 | 287.0 |
| 4609.9 | 42.5° | 1947.5 | 581.2 | 449.6 | 351.2 | 294.2 | 287.0 | 282.8 | 271.4 | 270.4 | 272.4 |
| 4759.0 | 45° | 1839.8 | 603.9 | 448.6 | 347.0 | 281.8 | 268.3 | 263.1 | 251.7 | 272.4 | 277.6 |
| 4820.1 | 47.5° | 1712.4 | 603.9 | 448.6 | 332.5 | 261.1 | 255.9 | 247.6 | 235.2 | 255.9 | 261.1 |
| 4762.1 | 50° | 1547.7 | 565.6 | 430.9 | 316.0 | 244.5 | 241.4 | 226.9 | 211.3 | 207.2 | 210.3 |
| 4626.4 | 52.5° | 1339.4 | 496.2 | 386.4 | 293.2 | 227.9 | 221.7 | 204.1 | 192.7 | 189.6 | 189.6 |
| 4383.0 | 55° | 1102.2 | 415.4 | 326.3 | 260.0 | 210.3 | 198.9 | 186.5 | 181.3 | 178.2 | 176.1 |
| 4042.2 | 57.5° | 896.1 | 340.8 | 262.1 | 231.0 | 193.7 | 179.2 | 175.1 | 168.9 | 163.7 | 160.6 |
| 3757.3 | 60° | 735.5 | 268.3 | 216.5 | 205.1 | 177.1 | 163.7 | 162.6 | 154.4 | 140.9 | 138.8 |
| 3522.1 | 62.5° | 567.7 | 196.8 | 182.3 | 178.2 | 160.6 | 149.2 | 147.1 | 130.5 | 109.8 | 105.7 |
| 3188.6 | 65° | 400.9 | 153.3 | 147.1 | 156.4 | 143.0 | 132.6 | 127.4 | 102.6 | 80.8 | 77.7 |
| 2668.5 | 67.5° | 281.8 | 128.5 | 116.0 | 136.7 | 124.3 | 110.8 | 107.7 | 87.0 | 67.3 | 65.3 |
| 2018.0 | 70° | 201.0 | 104.6 | 95.3 | 117.1 | 99.4 | 97.4 | 91.2 | 72.5 | 54.9 | 52.8 |
| 998.6 | 72.5° | 141.9 | 79.8 | 73.6 | 101.5 | 68.4 | 83.9 | 74.6 | 55.9 | 41.4 | 39.4 |
| 339.8 | 75° | 104.6 | 57.0 | 51.8 | 59.0 | 49.7 | 63.2 | 52.8 | 37.3 | 25.9 | 24.9 |
| 153.3 | 77.5° | 76.7 | 36.3 | 31.1 | 29.0 | 29.0 | 39.4 | 29.0 | 15.5 | 11.4 | 10.4 |
| 77.7 | 80° | 53.9 | 16.6 | 14.5 | 12.4 | 11.4 | 9.3 | 4.1 | 2.1 | 1.0 | 1.0 |
| 26.9 | 82.5° | 32.1 | 7.3 | 7.3 | 5.2 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 10.4 | 85° | 7.3 | 3.1 | 3.1 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4.1 | 87.5° | 1.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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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