

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: P953568

Luminaire Tested: **GALN-SB7A-830-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953568
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-SB7A-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 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: 24440 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

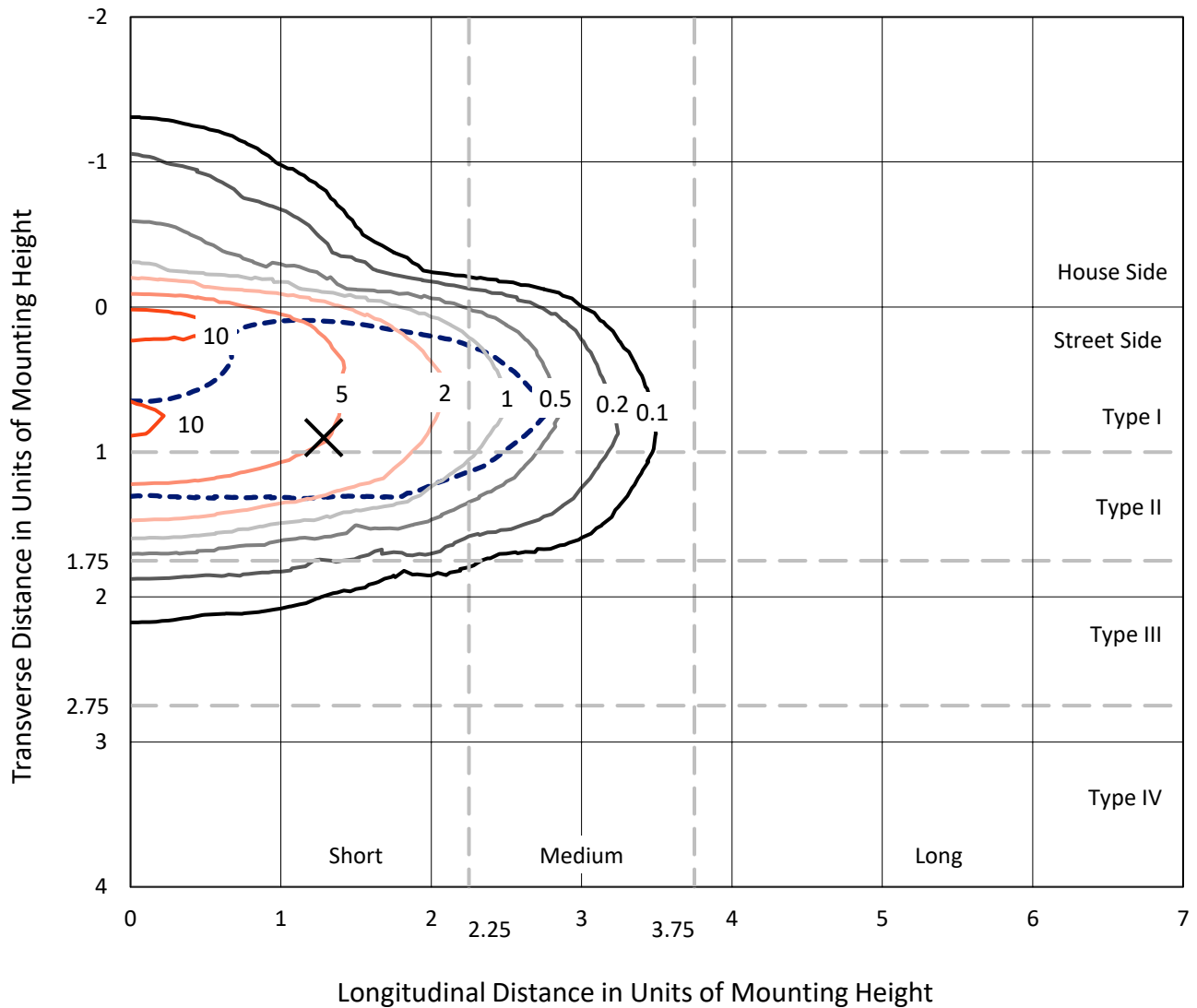
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

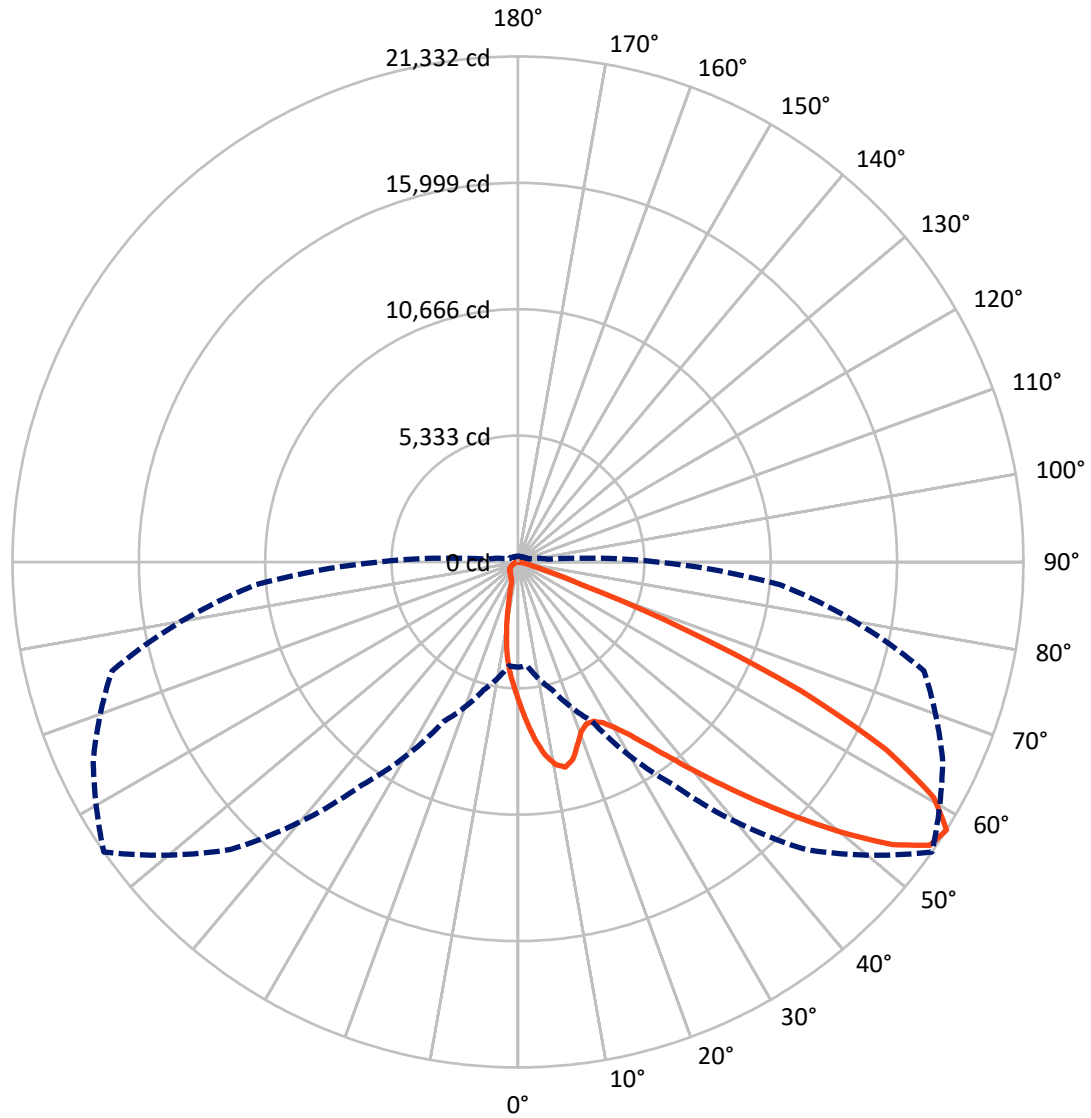
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 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 | 1908.7 | 0.0 | 1908.7 |
| | % Fixture | 7.8 | 0.0 | 7.8 |
| Street Side | Lumens | 22531.3 | 0.0 | 22531.3 |
| | % Fixture | 92.2 | 0.0 | 92.2 |
| Total | Lumens | 24440.0 | 0.0 | 24440.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 548.0 | 2.2 |
| 10°-20° | 1323.6 | 5.4 |
| 20°-30° | 2117.8 | 8.7 |
| 30°-40° | 3584.5 | 14.7 |
| 40°-50° | 5885.0 | 24.1 |
| 50°-60° | 6468.1 | 26.5 |
| 60°-70° | 3710.1 | 15.2 |
| 70°-80° | 758.1 | 3.1 |
| 80°-90° | 44.7 | 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° | 24440.0 | 100.0 |
| 0°-180° | 24440.0 | 100.0 |

Coefficient of Utilization



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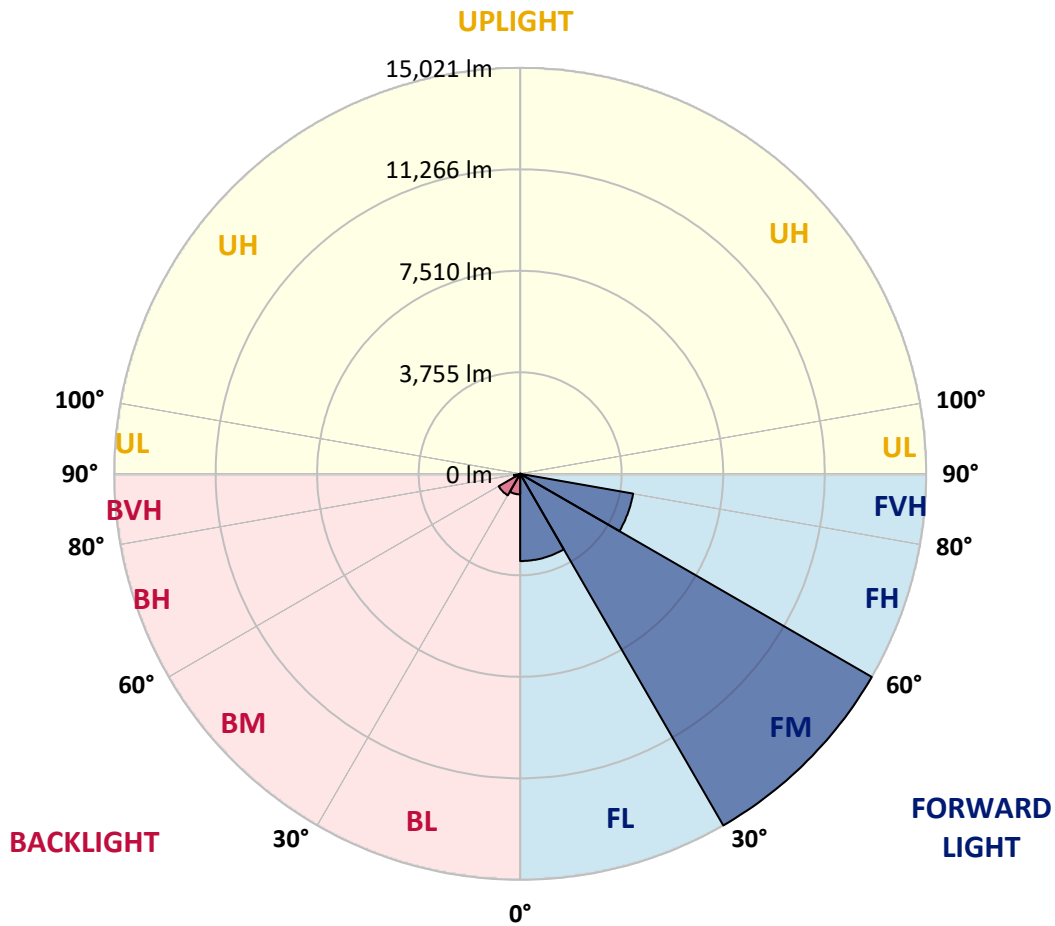
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3227.5 | 13.2 | | | |
| FM (30°-60°) | 15021.0 | 61.5 | | | |
| FH (60°-80°) | 4241.2 | 17.4 | | | G2/5000 |
| FVH (80°-90°) | 41.7 | 0.2 | | | G1/100 |
| BL (0°-30°) | 762.0 | 3.1 | B2/1000 | | |
| BM (30°-60°) | 916.7 | 3.8 | B1/1000 | | |
| BH (60°-80°) | 227.0 | 0.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.0 | 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° | 5889.4 | 5889.4 | 5889.4 | 5889.4 | 5889.4 | 5889.4 | 5889.4 | 5889.4 | 5889.4 | 5889.4 |
| 2.5° | 7307.5 | 7215.6 | 7202.1 | 7184.0 | 7009.2 | 6878.0 | 6688.2 | 6480.2 | 6246.6 | 6008.5 |
| 5° | 8442.3 | 8370.0 | 8356.4 | 8272.0 | 8073.1 | 7850.1 | 7512.5 | 7086.0 | 6650.5 | 6138.1 |
| 7.5° | 8662.4 | 8648.8 | 8710.6 | 8707.6 | 8680.4 | 8504.1 | 8219.3 | 7711.4 | 7057.4 | 6297.8 |
| 10° | 7681.3 | 7715.9 | 7899.8 | 8061.1 | 8496.6 | 8749.8 | 8688.0 | 8269.0 | 7476.3 | 6480.2 |
| 12.5° | 6787.6 | 6746.9 | 6878.0 | 7060.4 | 7566.8 | 8320.3 | 8882.4 | 8734.7 | 7955.6 | 6686.7 |
| 15° | 6227.0 | 6210.4 | 6284.3 | 6368.7 | 6754.5 | 7514.0 | 8656.3 | 9113.0 | 8416.7 | 6930.8 |
| 17.5° | 6047.7 | 6034.1 | 6056.7 | 6077.8 | 6328.0 | 6915.7 | 8118.3 | 9345.0 | 8858.3 | 7209.6 |
| 20° | 6193.9 | 6175.8 | 6172.8 | 6156.2 | 6260.2 | 6661.0 | 7631.6 | 9361.6 | 9254.6 | 7462.8 |
| 22.5° | 6620.3 | 6599.2 | 6525.4 | 6459.1 | 6468.1 | 6695.7 | 7414.5 | 9195.8 | 9553.0 | 7699.4 |
| 25° | 7393.4 | 7358.8 | 7205.1 | 6982.0 | 6840.4 | 6936.8 | 7447.7 | 8977.3 | 9837.8 | 7884.7 |
| 27.5° | 8361.0 | 8315.7 | 8118.3 | 7786.8 | 7462.8 | 7345.2 | 7687.3 | 8826.6 | 10074.4 | 8026.4 |
| 30° | 9308.9 | 9250.1 | 9055.7 | 8798.0 | 8324.8 | 7954.1 | 8119.8 | 8892.9 | 10356.2 | 8174.1 |
| 32.5° | 10332.1 | 10276.4 | 10018.7 | 9699.2 | 9307.4 | 8808.5 | 8712.1 | 9216.9 | 10701.4 | 8380.5 |
| 35° | 11626.7 | 11539.3 | 11173.1 | 10737.5 | 10321.6 | 9816.7 | 9513.8 | 9776.0 | 11161.0 | 8695.5 |
| 37.5° | 13100.5 | 12983.0 | 12588.1 | 11986.8 | 11444.3 | 10879.2 | 10490.4 | 10544.6 | 11834.6 | 9117.5 |
| 40° | 14490.0 | 14383.0 | 14018.3 | 13451.7 | 12770.5 | 12084.8 | 11670.4 | 11549.8 | 12764.5 | 9631.4 |
| 42.5° | 15323.4 | 15226.9 | 15073.2 | 14833.6 | 14259.4 | 13560.2 | 13037.2 | 12776.5 | 13864.6 | 10246.2 |
| 45° | 15370.1 | 15285.7 | 15492.2 | 15771.0 | 15657.9 | 15192.3 | 14554.8 | 14077.1 | 14969.2 | 10823.4 |
| 47.5° | 14622.6 | 14565.4 | 15192.3 | 16165.8 | 16651.1 | 16847.0 | 16259.2 | 15269.1 | 15881.0 | 11237.9 |
| 50° | 12585.1 | 12564.0 | 13854.0 | 15641.4 | 17029.3 | 18296.7 | 18057.1 | 16378.3 | 16587.8 | 11451.9 |
| 52.5° | 10912.3 | 10835.5 | 11587.5 | 13962.5 | 16479.3 | 19059.3 | 19814.3 | 17466.4 | 17082.1 | 11492.5 |
| 55° | 8276.6 | 8208.7 | 9152.1 | 11153.5 | 14705.5 | 18788.0 | 21099.8 | 18589.1 | 17436.2 | 11388.6 |
| 57.5° | 4439.7 | 4397.5 | 5589.5 | 7423.6 | 11495.6 | 17160.4 | 21331.9 | 19776.6 | 17734.6 | 11112.8 |
| 60° | 1728.6 | 1721.0 | 2167.1 | 3601.8 | 6986.5 | 13961.0 | 20160.9 | 20489.5 | 17921.5 | 10773.7 |
| 62.5° | 1045.9 | 1068.5 | 1140.8 | 1617.0 | 3086.4 | 8672.9 | 17461.9 | 19678.7 | 18046.6 | 10463.2 |
| 65° | 865.0 | 866.5 | 875.6 | 1110.7 | 1478.4 | 3628.9 | 13145.7 | 17011.3 | 17737.6 | 9910.2 |
| 67.5° | 741.5 | 755.0 | 789.7 | 881.6 | 1042.9 | 1591.4 | 7568.3 | 13177.4 | 15858.4 | 8623.2 |
| 70° | 584.7 | 602.8 | 646.5 | 724.9 | 804.7 | 996.1 | 2797.0 | 8767.8 | 12114.9 | 6499.8 |
| 72.5° | 492.8 | 491.3 | 513.9 | 589.2 | 639.0 | 700.8 | 1076.0 | 4912.9 | 7040.8 | 3103.0 |
| 75° | 381.3 | 396.3 | 425.0 | 492.8 | 522.9 | 507.9 | 583.2 | 1794.9 | 2522.8 | 940.4 |
| 77.5° | 298.4 | 310.4 | 336.1 | 402.4 | 432.5 | 360.2 | 336.1 | 642.0 | 810.8 | 337.6 |
| 80° | 134.1 | 144.7 | 229.1 | 296.9 | 352.6 | 248.7 | 182.3 | 328.5 | 360.2 | 153.7 |
| 82.5° | 24.1 | 40.7 | 134.1 | 156.7 | 180.8 | 161.3 | 94.9 | 170.3 | 176.3 | 61.8 |
| 85° | 1.5 | 3.0 | 46.7 | 57.3 | 72.3 | 52.7 | 28.6 | 67.8 | 58.8 | 21.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 1.5 | 1.5 | 7.5 | 9.0 | 12.1 | 9.0 | 7.5 |
| 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° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5889.4 | 0° | 5889.4 | 5889.4 | 5889.4 | 5889.4 | 5889.4 | 5889.4 | 5889.4 | 5889.4 | 5889.4 | 5889.4 |
| 5903.0 | 2.5° | 5794.5 | 5580.5 | 5372.5 | 5202.2 | 5102.8 | 4934.0 | 4822.5 | 4804.4 | 4757.7 | 4798.4 |
| 5918.1 | 5° | 5683.0 | 5300.2 | 4912.9 | 4566.3 | 4281.4 | 3913.7 | 3639.5 | 3523.4 | 3422.4 | 3457.1 |
| 5957.3 | 7.5° | 5630.2 | 5025.9 | 4423.1 | 3830.8 | 3222.0 | 2634.3 | 2197.2 | 2014.9 | 1876.2 | 1895.8 |
| 6001.0 | 10° | 5559.4 | 4741.1 | 3796.2 | 2892.0 | 2076.7 | 1496.5 | 1195.1 | 1083.5 | 1021.8 | 1023.3 |
| 6065.8 | 12.5° | 5505.1 | 4400.5 | 3068.3 | 1960.6 | 1264.4 | 955.5 | 862.0 | 834.9 | 816.8 | 818.3 |
| 6163.7 | 15° | 5478.0 | 3999.6 | 2349.4 | 1306.6 | 904.2 | 809.3 | 786.7 | 774.6 | 762.6 | 761.0 |
| 6272.2 | 17.5° | 5432.8 | 3553.6 | 1719.5 | 953.9 | 791.2 | 758.0 | 738.4 | 724.9 | 709.8 | 706.8 |
| 6365.7 | 20° | 5365.0 | 3047.2 | 1256.9 | 806.3 | 741.5 | 715.8 | 688.7 | 670.6 | 652.5 | 649.5 |
| 6424.4 | 22.5° | 5239.9 | 2512.2 | 966.0 | 746.0 | 705.3 | 676.7 | 643.5 | 622.4 | 604.3 | 601.3 |
| 6395.8 | 25° | 5007.8 | 2010.4 | 813.8 | 708.3 | 673.6 | 639.0 | 602.8 | 574.2 | 557.6 | 554.6 |
| 6334.0 | 27.5° | 4714.0 | 1579.4 | 738.4 | 673.6 | 632.9 | 601.3 | 560.6 | 533.5 | 518.4 | 515.4 |
| 6252.6 | 30° | 4367.3 | 1216.2 | 694.7 | 634.5 | 584.7 | 557.6 | 521.4 | 498.8 | 489.8 | 489.8 |
| 6195.4 | 32.5° | 3993.6 | 972.0 | 676.7 | 595.3 | 542.5 | 512.4 | 483.8 | 474.7 | 471.7 | 470.2 |
| 6227.0 | 35° | 3642.5 | 843.9 | 667.6 | 563.6 | 504.9 | 476.2 | 464.2 | 465.7 | 471.7 | 471.7 |
| 6325.0 | 37.5° | 3330.5 | 803.2 | 663.1 | 541.0 | 471.7 | 446.1 | 453.6 | 467.2 | 461.1 | 461.1 |
| 6496.8 | 40° | 3048.7 | 807.8 | 660.1 | 524.4 | 444.6 | 429.5 | 444.6 | 434.0 | 419.0 | 417.4 |
| 6706.2 | 42.5° | 2833.2 | 845.4 | 654.0 | 510.9 | 428.0 | 417.4 | 411.4 | 394.8 | 393.3 | 396.3 |
| 6923.3 | 45° | 2676.5 | 878.6 | 652.5 | 504.9 | 409.9 | 390.3 | 382.8 | 366.2 | 396.3 | 403.9 |
| 7012.2 | 47.5° | 2491.1 | 878.6 | 652.5 | 483.8 | 379.8 | 372.2 | 360.2 | 342.1 | 372.2 | 379.8 |
| 6927.8 | 50° | 2251.5 | 822.8 | 626.9 | 459.6 | 355.7 | 351.1 | 330.0 | 307.4 | 301.4 | 305.9 |
| 6730.4 | 52.5° | 1948.6 | 721.9 | 562.1 | 426.5 | 331.5 | 322.5 | 296.9 | 280.3 | 275.8 | 275.8 |
| 6376.2 | 55° | 1603.5 | 604.3 | 474.7 | 378.3 | 305.9 | 289.3 | 271.3 | 263.7 | 259.2 | 256.2 |
| 5880.4 | 57.5° | 1303.6 | 495.8 | 381.3 | 336.1 | 281.8 | 260.7 | 254.7 | 245.6 | 238.1 | 233.6 |
| 5466.0 | 60° | 1070.0 | 390.3 | 315.0 | 298.4 | 257.7 | 238.1 | 236.6 | 224.5 | 205.0 | 201.9 |
| 5123.9 | 62.5° | 825.8 | 286.3 | 265.2 | 259.2 | 233.6 | 217.0 | 214.0 | 189.9 | 159.7 | 153.7 |
| 4638.6 | 65° | 583.2 | 223.0 | 214.0 | 227.6 | 208.0 | 192.9 | 185.4 | 149.2 | 117.5 | 113.0 |
| 3882.1 | 67.5° | 409.9 | 186.9 | 168.8 | 198.9 | 180.8 | 161.3 | 156.7 | 126.6 | 98.0 | 94.9 |
| 2935.7 | 70° | 292.4 | 152.2 | 138.6 | 170.3 | 144.7 | 141.7 | 132.6 | 105.5 | 79.9 | 76.9 |
| 1452.8 | 72.5° | 206.5 | 116.0 | 107.0 | 147.7 | 99.5 | 122.1 | 108.5 | 81.4 | 60.3 | 57.3 |
| 494.3 | 75° | 152.2 | 82.9 | 75.4 | 85.9 | 72.3 | 91.9 | 76.9 | 54.3 | 37.7 | 36.2 |
| 223.0 | 77.5° | 111.5 | 52.7 | 45.2 | 42.2 | 42.2 | 57.3 | 42.2 | 22.6 | 16.6 | 15.1 |
| 113.0 | 80° | 78.4 | 24.1 | 21.1 | 18.1 | 16.6 | 13.6 | 6.0 | 3.0 | 1.5 | 1.5 |
| 39.2 | 82.5° | 46.7 | 10.5 | 10.5 | 7.5 | 4.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 15.1 | 85° | 10.5 | 4.5 | 4.5 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 6.0 | 87.5° | 1.5 | 1.5 | 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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