

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: P951069

Luminaire Tested: **GALN-SB5B-830-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951069
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-SB5B-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 450mA 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: 21792 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

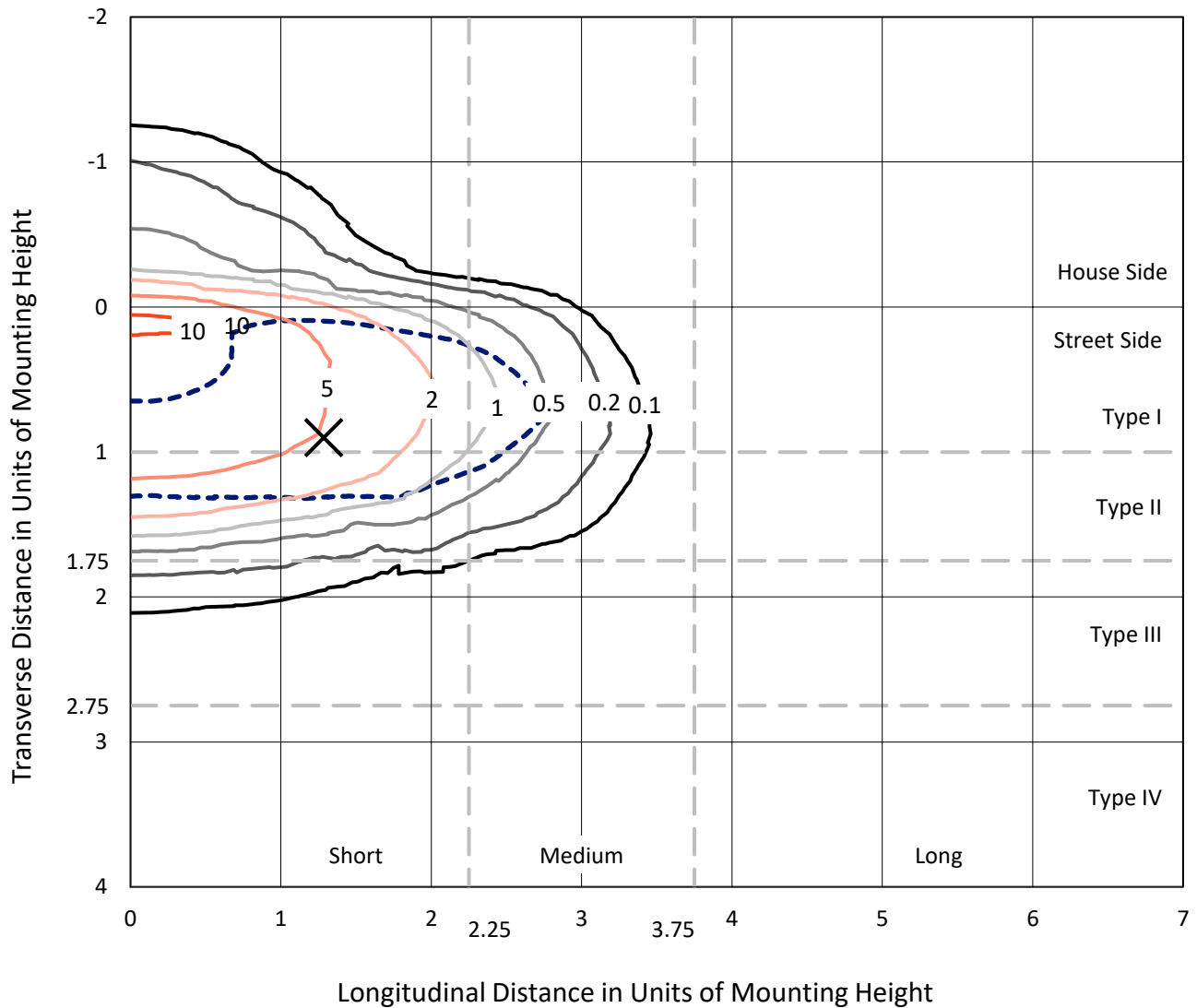
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

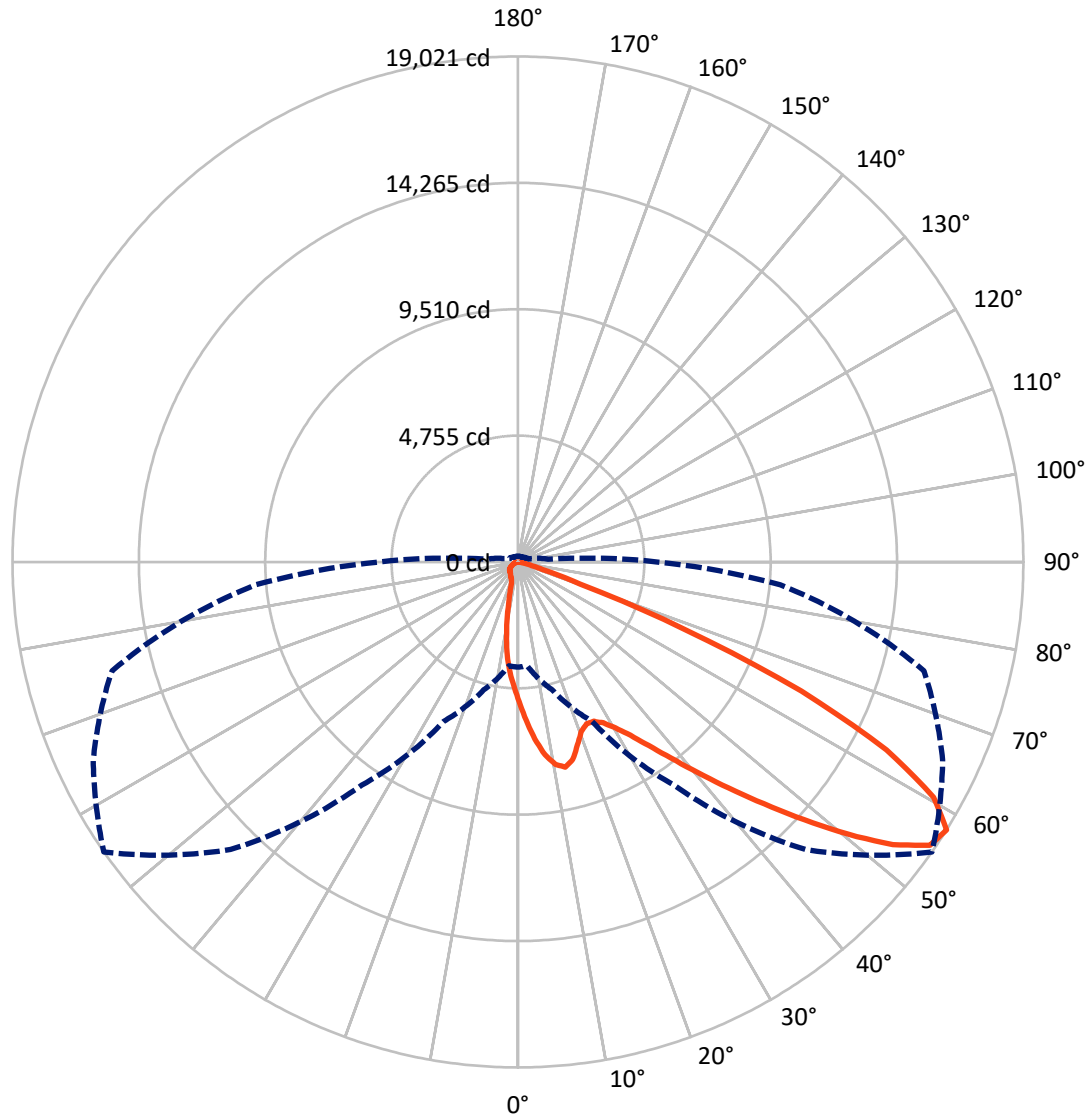
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 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 | 1701.9 | 0.0 | 1701.9 |
| | % Fixture | 7.8 | 0.0 | 7.8 |
| Street Side | Lumens | 20090.1 | 0.0 | 20090.1 |
| | % Fixture | 92.2 | 0.0 | 92.2 |
| Total | Lumens | 21792.0 | 0.0 | 21792.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 488.6 | 2.2 |
| 10°-20° | 1180.2 | 5.4 |
| 20°-30° | 1888.4 | 8.7 |
| 30°-40° | 3196.2 | 14.7 |
| 40°-50° | 5247.4 | 24.1 |
| 50°-60° | 5767.3 | 26.5 |
| 60°-70° | 3308.1 | 15.2 |
| 70°-80° | 675.9 | 3.1 |
| 80°-90° | 39.9 | 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° | 21792.0 | 100.0 |
| 0°-180° | 21792.0 | 100.0 |

Coefficient of Utilization



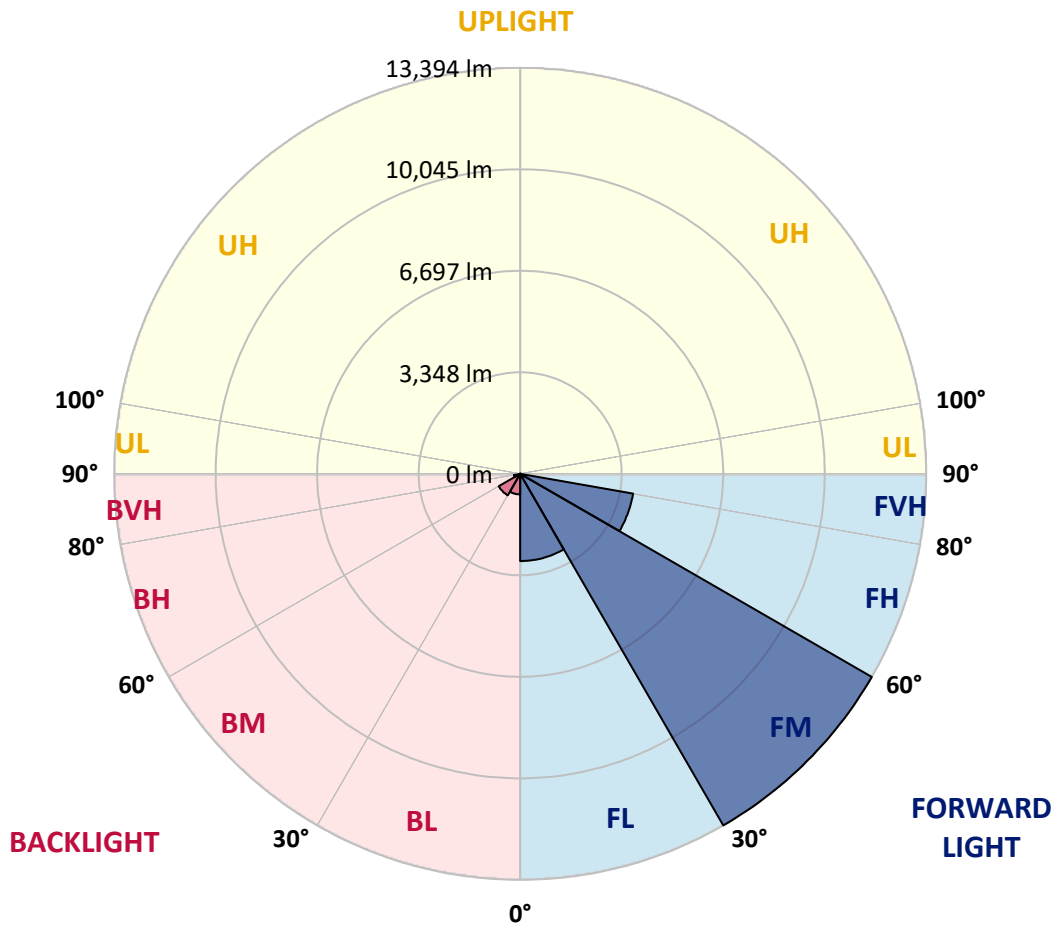
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2877.8 | 13.2 | | | |
| FM (30°-60°) | 13393.5 | 61.5 | | | |
| FH (60°-80°) | 3781.7 | 17.4 | | | G2/5000 |
| FVH (80°-90°) | 37.2 | 0.2 | | | G1/100 |
| BL (0°-30°) | 679.4 | 3.1 | B2/1000 | | |
| BM (30°-60°) | 817.3 | 3.8 | B1/1000 | | |
| BH (60°-80°) | 202.4 | 0.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.7 | 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° | 5251.3 | 5251.3 | 5251.3 | 5251.3 | 5251.3 | 5251.3 | 5251.3 | 5251.3 | 5251.3 | 5251.3 |
| 2.5° | 6515.8 | 6433.8 | 6421.7 | 6405.6 | 6249.7 | 6132.8 | 5963.5 | 5778.1 | 5569.8 | 5357.5 |
| 5° | 7527.6 | 7463.1 | 7451.0 | 7375.8 | 7198.4 | 6999.5 | 6698.5 | 6318.3 | 5929.9 | 5473.1 |
| 7.5° | 7723.8 | 7711.7 | 7766.8 | 7764.1 | 7739.9 | 7582.7 | 7328.8 | 6875.9 | 6292.7 | 5615.5 |
| 10° | 6849.0 | 6879.9 | 7043.9 | 7187.7 | 7576.0 | 7801.8 | 7746.7 | 7373.1 | 6666.3 | 5778.1 |
| 12.5° | 6052.2 | 6015.9 | 6132.8 | 6295.4 | 6746.9 | 7418.8 | 7920.0 | 7788.3 | 7093.6 | 5962.2 |
| 15° | 5552.3 | 5537.6 | 5603.4 | 5678.6 | 6022.6 | 6699.9 | 7718.4 | 8125.6 | 7504.8 | 6179.9 |
| 17.5° | 5392.4 | 5380.3 | 5400.5 | 5419.3 | 5642.4 | 6166.4 | 7238.7 | 8332.5 | 7898.5 | 6428.5 |
| 20° | 5522.8 | 5506.6 | 5504.0 | 5489.2 | 5581.9 | 5939.3 | 6804.7 | 8347.3 | 8251.9 | 6654.2 |
| 22.5° | 5903.0 | 5884.2 | 5818.4 | 5759.3 | 5767.3 | 5970.2 | 6611.2 | 8199.5 | 8518.0 | 6865.2 |
| 25° | 6592.4 | 6561.5 | 6424.4 | 6225.5 | 6099.2 | 6185.2 | 6640.8 | 8004.7 | 8771.9 | 7030.4 |
| 27.5° | 7455.1 | 7414.8 | 7238.7 | 6943.1 | 6654.2 | 6549.4 | 6854.4 | 7870.3 | 8982.9 | 7156.8 |
| 30° | 8300.3 | 8247.9 | 8074.5 | 7844.8 | 7422.8 | 7092.3 | 7240.1 | 7929.4 | 9234.2 | 7288.4 |
| 32.5° | 9212.7 | 9163.0 | 8933.2 | 8648.3 | 8298.9 | 7854.2 | 7768.2 | 8218.3 | 9541.9 | 7472.5 |
| 35° | 10367.0 | 10289.0 | 9962.5 | 9574.1 | 9203.3 | 8753.1 | 8483.0 | 8716.8 | 9951.7 | 7753.4 |
| 37.5° | 11681.1 | 11576.3 | 11224.3 | 10688.1 | 10204.4 | 9700.5 | 9353.8 | 9402.1 | 10552.4 | 8129.6 |
| 40° | 12920.1 | 12824.7 | 12499.5 | 11994.2 | 11386.9 | 10775.4 | 10405.9 | 10298.4 | 11381.5 | 8587.8 |
| 42.5° | 13663.1 | 13577.1 | 13440.1 | 13226.4 | 12714.5 | 12091.0 | 11624.7 | 11392.2 | 12362.4 | 9136.1 |
| 45° | 13704.8 | 13629.6 | 13813.6 | 14062.2 | 13961.5 | 13546.2 | 12977.8 | 12551.9 | 13347.4 | 9650.7 |
| 47.5° | 13038.3 | 12987.2 | 13546.2 | 14414.3 | 14847.0 | 15021.7 | 14497.6 | 13614.8 | 14160.3 | 10020.3 |
| 50° | 11221.6 | 11202.8 | 12353.0 | 13946.7 | 15184.3 | 16314.3 | 16100.7 | 14603.8 | 14790.5 | 10211.1 |
| 52.5° | 9730.0 | 9661.5 | 10332.0 | 12449.7 | 14693.8 | 16994.3 | 17667.5 | 15573.9 | 15231.3 | 10247.4 |
| 55° | 7379.8 | 7319.4 | 8160.5 | 9945.0 | 13112.2 | 16752.4 | 18813.7 | 16575.0 | 15547.1 | 10154.6 |
| 57.5° | 3958.7 | 3921.0 | 4983.9 | 6619.3 | 10250.0 | 15301.2 | 19020.6 | 17633.9 | 15813.1 | 9908.7 |
| 60° | 1541.3 | 1534.6 | 1932.3 | 3211.5 | 6229.6 | 12448.4 | 17976.6 | 18269.5 | 15979.8 | 9606.4 |
| 62.5° | 932.6 | 952.7 | 1017.2 | 1441.8 | 2752.0 | 7733.2 | 15569.9 | 17546.6 | 16091.3 | 9329.6 |
| 65° | 771.3 | 772.7 | 780.7 | 990.3 | 1318.2 | 3235.7 | 11721.4 | 15168.1 | 15815.8 | 8836.4 |
| 67.5° | 661.1 | 673.2 | 704.1 | 786.1 | 929.9 | 1419.0 | 6748.3 | 11749.7 | 14140.2 | 7688.9 |
| 70° | 521.4 | 537.5 | 576.5 | 646.3 | 717.6 | 888.2 | 2494.0 | 7817.9 | 10802.3 | 5795.5 |
| 72.5° | 439.4 | 438.1 | 458.2 | 525.4 | 569.7 | 624.8 | 959.4 | 4380.6 | 6278.0 | 2766.8 |
| 75° | 340.0 | 353.4 | 378.9 | 439.4 | 466.3 | 452.8 | 520.0 | 1600.4 | 2249.4 | 838.5 |
| 77.5° | 266.1 | 276.8 | 299.7 | 358.8 | 385.7 | 321.2 | 299.7 | 572.4 | 722.9 | 301.0 |
| 80° | 119.6 | 129.0 | 204.2 | 264.7 | 314.4 | 221.7 | 162.6 | 292.9 | 321.2 | 137.1 |
| 82.5° | 21.5 | 36.3 | 119.6 | 139.7 | 161.2 | 143.8 | 84.7 | 151.8 | 157.2 | 55.1 |
| 85° | 1.3 | 2.7 | 41.7 | 51.1 | 64.5 | 47.0 | 25.5 | 60.5 | 52.4 | 18.8 |
| 87.5° | 0.0 | 0.0 | 0.0 | 1.3 | 1.3 | 6.7 | 8.1 | 10.7 | 8.1 | 6.7 |
| 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° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5251.3 | 0° | 5251.3 | 5251.3 | 5251.3 | 5251.3 | 5251.3 | 5251.3 | 5251.3 | 5251.3 | 5251.3 | 5251.3 |
| 5263.4 | 2.5° | 5166.7 | 4975.9 | 4790.4 | 4638.6 | 4549.9 | 4399.4 | 4300.0 | 4283.8 | 4242.2 | 4278.5 |
| 5276.9 | 5° | 5067.2 | 4725.9 | 4380.6 | 4071.5 | 3817.6 | 3489.7 | 3245.1 | 3141.7 | 3051.6 | 3082.5 |
| 5311.8 | 7.5° | 5020.2 | 4481.4 | 3943.9 | 3415.8 | 2872.9 | 2348.9 | 1959.2 | 1796.6 | 1673.0 | 1690.4 |
| 5350.8 | 10° | 4957.1 | 4227.4 | 3384.9 | 2578.6 | 1851.7 | 1334.3 | 1065.6 | 966.1 | 911.1 | 912.4 |
| 5408.6 | 12.5° | 4908.7 | 3923.7 | 2735.9 | 1748.2 | 1127.4 | 851.9 | 768.6 | 744.4 | 728.3 | 729.7 |
| 5495.9 | 15° | 4884.5 | 3566.3 | 2094.9 | 1165.0 | 806.2 | 721.6 | 701.4 | 690.7 | 679.9 | 678.6 |
| 5592.6 | 17.5° | 4844.2 | 3168.5 | 1533.2 | 850.6 | 705.5 | 675.9 | 658.4 | 646.3 | 632.9 | 630.2 |
| 5676.0 | 20° | 4783.7 | 2717.0 | 1120.7 | 718.9 | 661.1 | 638.3 | 614.1 | 598.0 | 581.8 | 579.2 |
| 5728.4 | 22.5° | 4672.2 | 2240.0 | 861.3 | 665.2 | 628.9 | 603.3 | 573.8 | 555.0 | 538.8 | 536.2 |
| 5702.8 | 25° | 4465.2 | 1792.5 | 725.6 | 631.6 | 600.7 | 569.7 | 537.5 | 512.0 | 497.2 | 494.5 |
| 5647.7 | 27.5° | 4203.2 | 1408.2 | 658.4 | 600.7 | 564.4 | 536.2 | 499.9 | 475.7 | 462.2 | 459.6 |
| 5575.2 | 30° | 3894.2 | 1084.4 | 619.5 | 565.7 | 521.4 | 497.2 | 464.9 | 444.8 | 436.7 | 436.7 |
| 5524.1 | 32.5° | 3560.9 | 866.7 | 603.3 | 530.8 | 483.7 | 456.9 | 431.3 | 423.3 | 420.6 | 419.2 |
| 5552.3 | 35° | 3247.8 | 752.5 | 595.3 | 502.6 | 450.2 | 424.6 | 413.9 | 415.2 | 420.6 | 420.6 |
| 5639.7 | 37.5° | 2969.7 | 716.2 | 591.2 | 482.4 | 420.6 | 397.7 | 404.5 | 416.6 | 411.2 | 411.2 |
| 5792.9 | 40° | 2718.4 | 720.2 | 588.6 | 467.6 | 396.4 | 383.0 | 396.4 | 387.0 | 373.6 | 372.2 |
| 5979.6 | 42.5° | 2526.2 | 753.8 | 583.2 | 455.5 | 381.6 | 372.2 | 366.8 | 352.1 | 350.7 | 353.4 |
| 6173.1 | 45° | 2386.5 | 783.4 | 581.8 | 450.2 | 365.5 | 348.0 | 341.3 | 326.5 | 353.4 | 360.1 |
| 6252.4 | 47.5° | 2221.2 | 783.4 | 581.8 | 431.3 | 338.6 | 331.9 | 321.2 | 305.0 | 331.9 | 338.6 |
| 6177.2 | 50° | 2007.5 | 733.7 | 559.0 | 409.8 | 317.1 | 313.1 | 294.3 | 274.1 | 268.7 | 272.8 |
| 6001.1 | 52.5° | 1737.5 | 643.7 | 501.2 | 380.3 | 295.6 | 287.6 | 264.7 | 249.9 | 245.9 | 245.9 |
| 5685.4 | 55° | 1429.7 | 538.8 | 423.3 | 337.3 | 272.8 | 258.0 | 241.9 | 235.2 | 231.1 | 228.4 |
| 5243.3 | 57.5° | 1162.3 | 442.1 | 340.0 | 299.7 | 251.3 | 232.5 | 227.1 | 219.0 | 212.3 | 208.3 |
| 4873.7 | 60° | 954.1 | 348.0 | 280.8 | 266.1 | 229.8 | 212.3 | 211.0 | 200.2 | 182.7 | 180.1 |
| 4568.7 | 62.5° | 736.4 | 255.3 | 236.5 | 231.1 | 208.3 | 193.5 | 190.8 | 169.3 | 142.4 | 137.1 |
| 4136.0 | 65° | 520.0 | 198.9 | 190.8 | 202.9 | 185.4 | 172.0 | 165.3 | 133.0 | 104.8 | 100.8 |
| 3461.5 | 67.5° | 365.5 | 166.6 | 150.5 | 177.4 | 161.2 | 143.8 | 139.7 | 112.9 | 87.3 | 84.7 |
| 2617.6 | 70° | 260.7 | 135.7 | 123.6 | 151.8 | 129.0 | 126.3 | 118.2 | 94.1 | 71.2 | 68.5 |
| 1295.4 | 72.5° | 184.1 | 103.5 | 95.4 | 131.7 | 88.7 | 108.8 | 96.7 | 72.6 | 53.7 | 51.1 |
| 440.7 | 75° | 135.7 | 73.9 | 67.2 | 76.6 | 64.5 | 82.0 | 68.5 | 48.4 | 33.6 | 32.2 |
| 198.9 | 77.5° | 99.4 | 47.0 | 40.3 | 37.6 | 37.6 | 51.1 | 37.6 | 20.2 | 14.8 | 13.4 |
| 100.8 | 80° | 69.9 | 21.5 | 18.8 | 16.1 | 14.8 | 12.1 | 5.4 | 2.7 | 1.3 | 1.3 |
| 34.9 | 82.5° | 41.7 | 9.4 | 9.4 | 6.7 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 13.4 | 85° | 9.4 | 4.0 | 4.0 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5.4 | 87.5° | 1.3 | 1.3 | 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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