

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: P947311

Luminaire Tested: **GALN-SB2C-950-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947311
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-SB2C-950-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10596 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

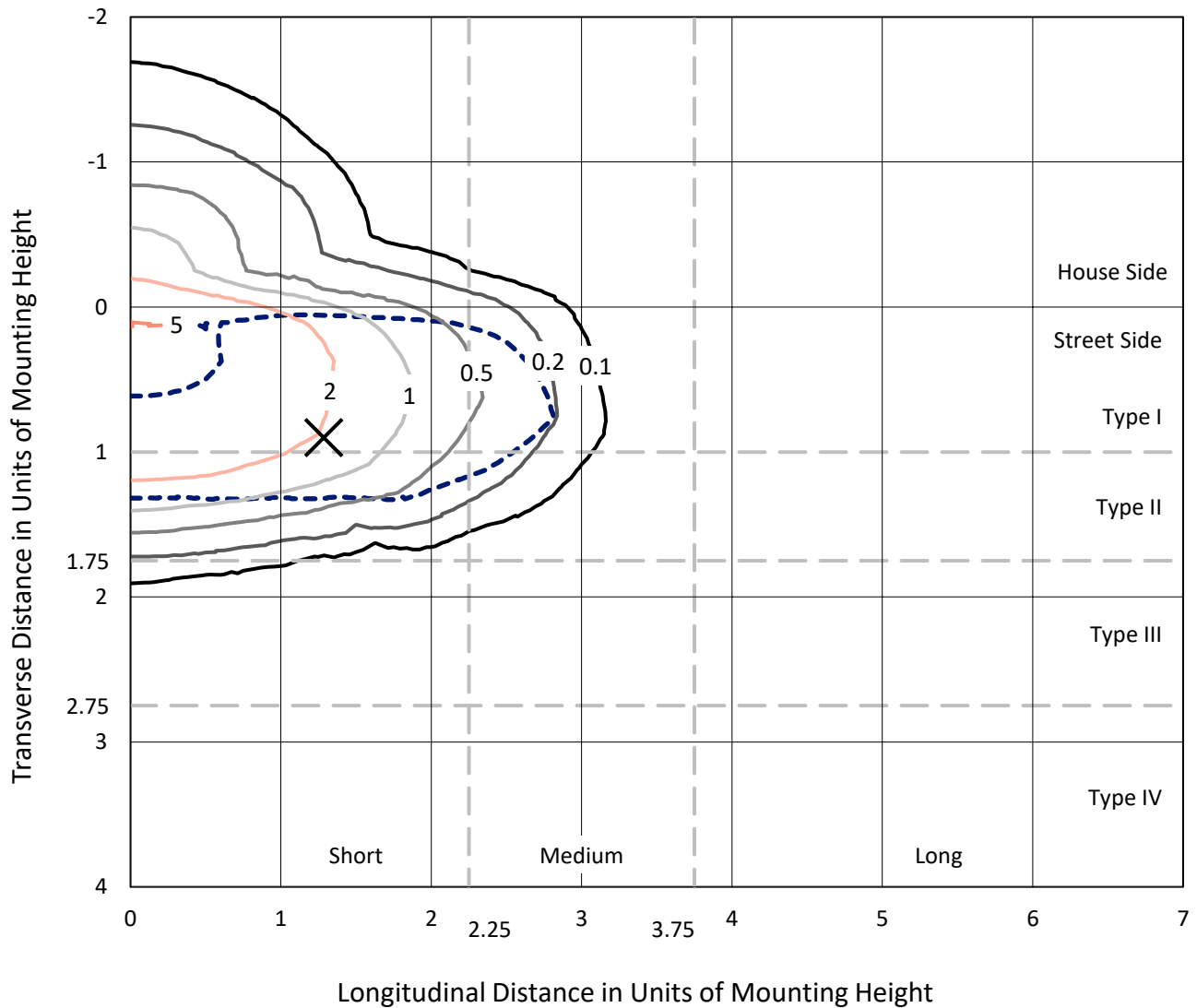
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

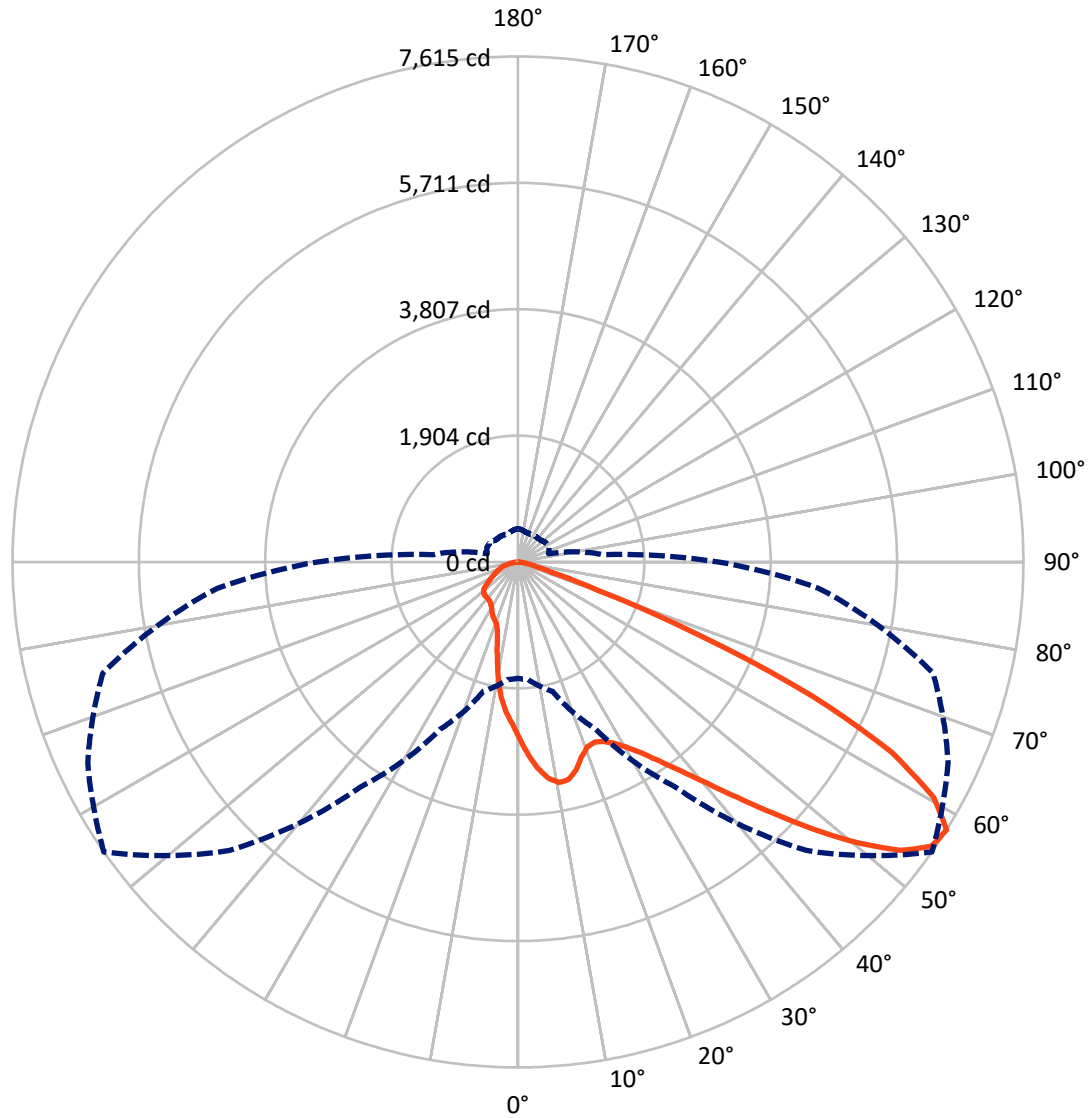
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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 | 1917.3 | 0.0 | 1917.3 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 8678.7 | 0.0 | 8678.7 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 10596.0 | 0.0 | 10596.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 246.4 | 2.3 |
| 10°-20° | 621.8 | 5.9 |
| 20°-30° | 992.3 | 9.4 |
| 30°-40° | 1571.0 | 14.8 |
| 40°-50° | 2404.6 | 22.7 |
| 50°-60° | 2575.6 | 24.3 |
| 60°-70° | 1620.3 | 15.3 |
| 70°-80° | 479.2 | 4.5 |
| 80°-90° | 84.7 | 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° | 10596.0 | 100.0 |
| 0°-180° | 10596.0 | 100.0 |

Coefficient of Utilization



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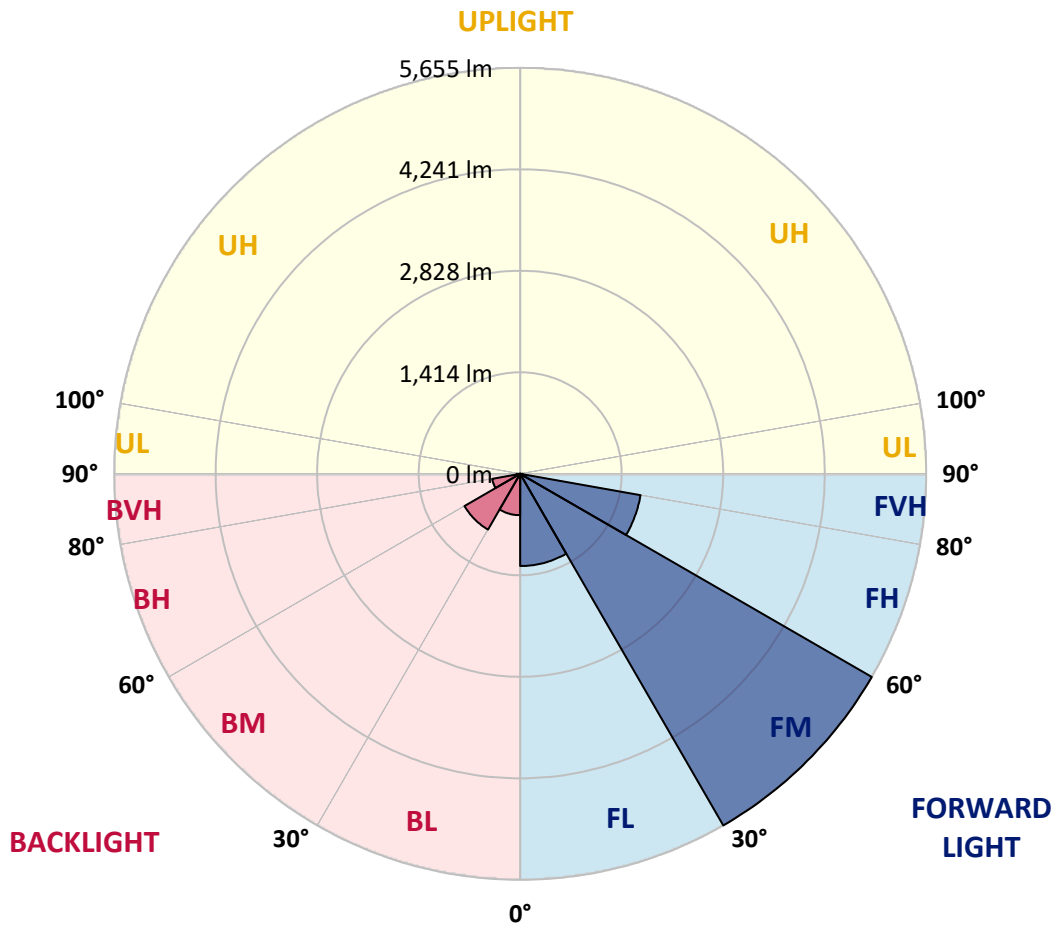
CATALOG NUMBER: GALN-SB2C-950-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1284.2 | 12.1 | | | |
| FM (30°-60°) | 5655.2 | 53.4 | | | |
| FH (60°-80°) | 1703.5 | 16.1 | | | G1/1800 |
| FVH (80°-90°) | 35.8 | 0.3 | | | G1/100 |
| BL (0°-30°) | 576.3 | 5.4 | B2/1000 | | |
| BM (30°-60°) | 896.1 | 8.5 | B1/1000 | | |
| BH (60°-80°) | 396.0 | 3.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 48.9 | 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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2655.0 | 2655.0 | 2655.0 | 2655.0 | 2655.0 | 2655.0 | 2655.0 | 2655.0 | 2655.0 | 2655.0 |
| 2.5° | 3046.1 | 3043.9 | 3056.0 | 3014.9 | 2987.0 | 2949.2 | 2899.3 | 2835.8 | 2767.3 | 2695.0 |
| 5° | 3320.5 | 3301.4 | 3314.0 | 3283.3 | 3252.6 | 3195.7 | 3121.7 | 3018.2 | 2891.6 | 2747.6 |
| 7.5° | 3277.3 | 3264.1 | 3296.4 | 3323.8 | 3346.8 | 3339.7 | 3285.5 | 3177.0 | 3013.8 | 2804.6 |
| 10° | 2928.3 | 2913.6 | 2959.0 | 3053.8 | 3192.9 | 3314.0 | 3379.7 | 3312.3 | 3138.7 | 2867.0 |
| 12.5° | 2620.5 | 2613.4 | 2643.5 | 2720.2 | 2874.7 | 3106.9 | 3367.7 | 3430.6 | 3268.5 | 2940.9 |
| 15° | 2489.0 | 2480.3 | 2499.4 | 2538.3 | 2636.9 | 2853.3 | 3258.1 | 3511.7 | 3396.1 | 3026.4 |
| 17.5° | 2460.0 | 2450.1 | 2458.4 | 2478.6 | 2542.2 | 2707.1 | 3092.7 | 3551.7 | 3529.2 | 3121.7 |
| 20° | 2513.7 | 2505.5 | 2506.6 | 2505.5 | 2549.8 | 2680.8 | 2977.6 | 3536.4 | 3645.4 | 3209.4 |
| 22.5° | 2643.5 | 2629.8 | 2630.4 | 2601.3 | 2625.4 | 2726.8 | 2947.5 | 3495.3 | 3748.9 | 3286.0 |
| 25° | 2854.9 | 2830.3 | 2835.2 | 2761.3 | 2754.7 | 2829.8 | 2994.6 | 3463.5 | 3851.9 | 3347.4 |
| 27.5° | 3144.2 | 3116.2 | 3101.4 | 2991.3 | 2938.8 | 2976.0 | 3090.5 | 3474.5 | 3949.4 | 3400.5 |
| 30° | 3505.7 | 3471.7 | 3441.6 | 3285.5 | 3190.2 | 3176.5 | 3239.5 | 3546.8 | 4064.4 | 3456.4 |
| 32.5° | 3948.8 | 3909.4 | 3854.6 | 3647.6 | 3513.4 | 3441.6 | 3432.3 | 3675.5 | 4199.2 | 3527.6 |
| 35° | 4476.3 | 4424.8 | 4347.1 | 4079.2 | 3909.4 | 3762.6 | 3686.5 | 3861.2 | 4383.8 | 3635.0 |
| 37.5° | 5019.7 | 4961.6 | 4890.4 | 4571.6 | 4362.9 | 4146.6 | 3996.5 | 4113.2 | 4629.7 | 3780.7 |
| 40° | 5520.9 | 5455.7 | 5389.5 | 5105.7 | 4881.7 | 4620.9 | 4376.1 | 4432.0 | 4930.4 | 3954.9 |
| 42.5° | 5816.7 | 5768.5 | 5743.3 | 5589.9 | 5416.8 | 5152.3 | 4848.3 | 4809.9 | 5268.4 | 4155.3 |
| 45° | 5803.6 | 5783.8 | 5861.6 | 5925.2 | 5884.1 | 5737.3 | 5401.5 | 5227.9 | 5607.5 | 4329.0 |
| 47.5° | 5493.5 | 5506.7 | 5680.3 | 6037.5 | 6194.7 | 6271.4 | 6031.4 | 5638.1 | 5902.2 | 4458.8 |
| 50° | 4650.0 | 4660.9 | 5063.0 | 5833.1 | 6274.6 | 6706.8 | 6656.4 | 6038.6 | 6130.6 | 4538.2 |
| 52.5° | 3982.2 | 3989.4 | 4161.9 | 5227.3 | 6010.6 | 6925.9 | 7219.5 | 6416.0 | 6297.6 | 4560.1 |
| 55° | 2999.6 | 3024.2 | 3217.6 | 4101.1 | 5323.7 | 6752.3 | 7562.4 | 6804.9 | 6403.4 | 4562.3 |
| 57.5° | 1752.3 | 1779.1 | 2018.0 | 2783.7 | 4137.8 | 6147.0 | 7614.5 | 7150.0 | 6475.1 | 4544.8 |
| 60° | 858.3 | 869.8 | 973.9 | 1463.1 | 2551.5 | 4980.8 | 7196.0 | 7317.0 | 6515.1 | 4535.5 |
| 62.5° | 578.4 | 576.8 | 581.2 | 722.0 | 1257.1 | 3200.0 | 6323.9 | 7024.5 | 6493.7 | 4499.9 |
| 65° | 497.4 | 491.3 | 474.9 | 506.7 | 651.3 | 1463.6 | 4886.1 | 6151.4 | 6331.1 | 4410.6 |
| 67.5° | 430.0 | 430.5 | 431.1 | 421.2 | 465.1 | 675.4 | 2985.9 | 4845.5 | 5747.1 | 3987.7 |
| 70° | 356.0 | 361.0 | 363.2 | 363.2 | 379.1 | 443.1 | 1274.6 | 3321.1 | 4533.3 | 3126.6 |
| 72.5° | 324.3 | 313.9 | 315.0 | 309.5 | 309.5 | 337.4 | 513.3 | 1882.7 | 2856.0 | 1758.9 |
| 75° | 264.6 | 271.1 | 272.2 | 268.4 | 255.8 | 257.4 | 304.6 | 789.9 | 1222.1 | 729.6 |
| 77.5° | 228.4 | 228.4 | 230.6 | 227.9 | 218.0 | 192.8 | 203.2 | 306.2 | 415.8 | 299.1 |
| 80° | 183.5 | 183.0 | 192.3 | 197.7 | 182.4 | 142.4 | 129.8 | 169.3 | 184.6 | 131.5 |
| 82.5° | 89.3 | 94.8 | 132.0 | 150.6 | 138.6 | 103.0 | 79.4 | 105.2 | 98.6 | 58.1 |
| 85° | 52.0 | 49.3 | 59.2 | 83.8 | 79.4 | 57.0 | 38.3 | 54.8 | 51.5 | 29.6 |
| 87.5° | 16.4 | 15.3 | 12.1 | 28.5 | 23.0 | 15.9 | 10.4 | 15.9 | 14.2 | 6.6 |
| 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-SB2C-950-U-AFL

CANDELA DISTRIBUTION (continued):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2655.0 | 0° | 2655.0 | 2655.0 | 2655.0 | 2655.0 | 2655.0 | 2655.0 | 2655.0 | 2655.0 | 2655.0 | 2655.0 |
| 2663.8 | 2.5° | 2624.9 | 2560.3 | 2496.2 | 2437.6 | 2401.9 | 2378.9 | 2355.9 | 2330.2 | 2320.3 | 2305.5 |
| 2670.9 | 5° | 2598.6 | 2473.7 | 2362.5 | 2266.6 | 2179.6 | 2111.1 | 2042.1 | 1986.2 | 1961.0 | 1978.0 |
| 2693.4 | 7.5° | 2583.3 | 2402.5 | 2231.0 | 2055.2 | 1886.0 | 1750.7 | 1632.9 | 1550.2 | 1512.9 | 1522.2 |
| 2715.3 | 10° | 2569.6 | 2322.0 | 2060.7 | 1783.0 | 1539.8 | 1372.1 | 1251.6 | 1188.6 | 1165.1 | 1170.0 |
| 2744.8 | 12.5° | 2557.0 | 2231.6 | 1855.3 | 1489.9 | 1231.4 | 1120.7 | 1086.2 | 1086.8 | 1091.1 | 1094.4 |
| 2792.0 | 15° | 2554.8 | 2122.6 | 1625.8 | 1233.6 | 1064.9 | 1057.7 | 1095.0 | 1118.5 | 1131.1 | 1135.0 |
| 2831.4 | 17.5° | 2551.5 | 1992.2 | 1391.9 | 1058.8 | 1024.3 | 1072.5 | 1107.0 | 1122.4 | 1132.2 | 1132.8 |
| 2869.7 | 20° | 2538.3 | 1826.8 | 1176.0 | 975.6 | 1015.6 | 1057.2 | 1078.5 | 1090.6 | 1098.8 | 1101.6 |
| 2898.8 | 22.5° | 2497.8 | 1642.7 | 1007.9 | 938.3 | 980.5 | 1013.9 | 1039.1 | 1052.8 | 1057.7 | 1061.0 |
| 2904.2 | 25° | 2425.0 | 1436.8 | 891.8 | 902.7 | 931.7 | 973.9 | 994.2 | 996.9 | 995.3 | 1000.2 |
| 2890.6 | 27.5° | 2329.6 | 1216.0 | 819.5 | 854.5 | 891.8 | 927.9 | 938.9 | 937.2 | 933.9 | 939.4 |
| 2867.0 | 30° | 2214.6 | 1017.7 | 773.4 | 800.3 | 851.2 | 884.1 | 894.0 | 890.1 | 883.5 | 889.6 |
| 2854.9 | 32.5° | 2093.0 | 855.6 | 735.6 | 762.5 | 817.8 | 850.1 | 860.0 | 856.2 | 851.2 | 856.2 |
| 2868.6 | 35° | 1979.6 | 742.2 | 700.6 | 737.3 | 791.5 | 823.3 | 835.9 | 836.4 | 836.4 | 842.5 |
| 2904.8 | 37.5° | 1875.5 | 675.9 | 671.6 | 721.4 | 773.4 | 801.9 | 820.0 | 821.1 | 797.5 | 799.2 |
| 2966.1 | 40° | 1779.1 | 648.0 | 658.4 | 711.0 | 755.9 | 783.3 | 784.4 | 723.0 | 679.8 | 678.7 |
| 3036.3 | 42.5° | 1700.3 | 642.5 | 662.2 | 709.9 | 743.3 | 744.4 | 667.2 | 619.5 | 607.5 | 608.0 |
| 3100.9 | 45° | 1626.3 | 640.9 | 671.0 | 709.9 | 724.7 | 643.1 | 591.0 | 578.4 | 579.5 | 583.9 |
| 3129.9 | 47.5° | 1543.6 | 634.3 | 672.7 | 700.0 | 671.0 | 571.9 | 556.5 | 551.1 | 548.9 | 550.0 |
| 3123.4 | 50° | 1453.2 | 610.8 | 651.8 | 680.3 | 579.0 | 541.2 | 522.0 | 520.4 | 523.1 | 524.8 |
| 3086.7 | 52.5° | 1357.9 | 572.4 | 616.2 | 644.7 | 536.8 | 514.4 | 493.0 | 496.8 | 508.9 | 512.7 |
| 3048.3 | 55° | 1295.5 | 527.5 | 569.1 | 573.5 | 507.2 | 489.2 | 471.1 | 479.8 | 502.3 | 509.4 |
| 3025.3 | 57.5° | 1279.0 | 479.8 | 515.4 | 510.5 | 469.4 | 467.2 | 456.3 | 464.0 | 492.4 | 502.8 |
| 3024.2 | 60° | 1274.1 | 437.1 | 462.9 | 459.0 | 432.7 | 443.1 | 440.4 | 444.2 | 454.1 | 457.4 |
| 3013.3 | 62.5° | 1235.8 | 403.2 | 415.8 | 410.3 | 399.9 | 417.9 | 424.5 | 416.3 | 424.0 | 427.8 |
| 2938.2 | 65° | 1138.3 | 375.8 | 369.7 | 365.9 | 370.3 | 386.7 | 399.9 | 383.4 | 390.6 | 401.5 |
| 2649.0 | 67.5° | 977.2 | 338.5 | 322.1 | 326.5 | 340.2 | 348.9 | 365.9 | 347.3 | 353.3 | 371.9 |
| 2133.5 | 70° | 790.4 | 291.4 | 276.6 | 289.2 | 302.4 | 320.4 | 323.2 | 310.6 | 324.8 | 345.6 |
| 1302.0 | 72.5° | 559.3 | 243.8 | 233.3 | 259.1 | 263.5 | 287.0 | 281.0 | 275.0 | 294.7 | 301.8 |
| 643.6 | 75° | 387.8 | 196.6 | 190.6 | 210.3 | 226.2 | 246.5 | 242.1 | 249.2 | 290.9 | 294.1 |
| 321.5 | 77.5° | 245.4 | 152.8 | 149.0 | 161.6 | 183.5 | 206.0 | 213.1 | 294.1 | 496.8 | 516.5 |
| 167.1 | 80° | 142.4 | 113.9 | 109.6 | 119.4 | 138.6 | 159.4 | 205.4 | 361.0 | 327.6 | 323.7 |
| 75.0 | 82.5° | 79.4 | 78.3 | 72.9 | 75.6 | 92.6 | 115.0 | 290.3 | 254.2 | 206.5 | 213.1 |
| 30.1 | 85° | 37.2 | 46.0 | 39.4 | 37.8 | 52.0 | 134.8 | 193.9 | 145.2 | 96.4 | 94.2 |
| 6.6 | 87.5° | 9.9 | 8.8 | 8.8 | 9.9 | 21.9 | 116.1 | 77.2 | 61.9 | 36.7 | 35.6 |
| 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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