

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: P946954

Luminaire Tested: **GALN-SB2B-950-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946954
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-SB2B-950-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7967 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

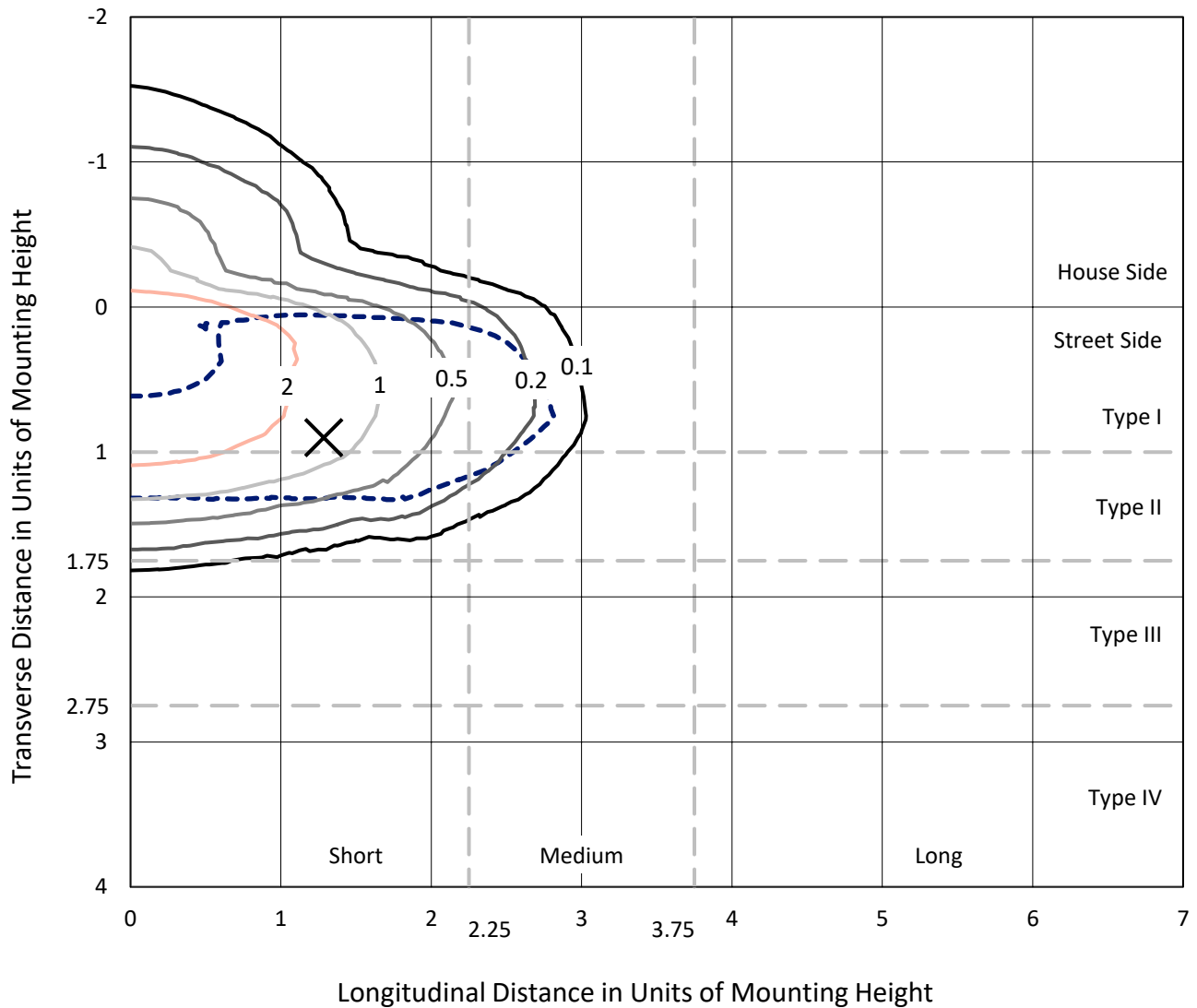
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

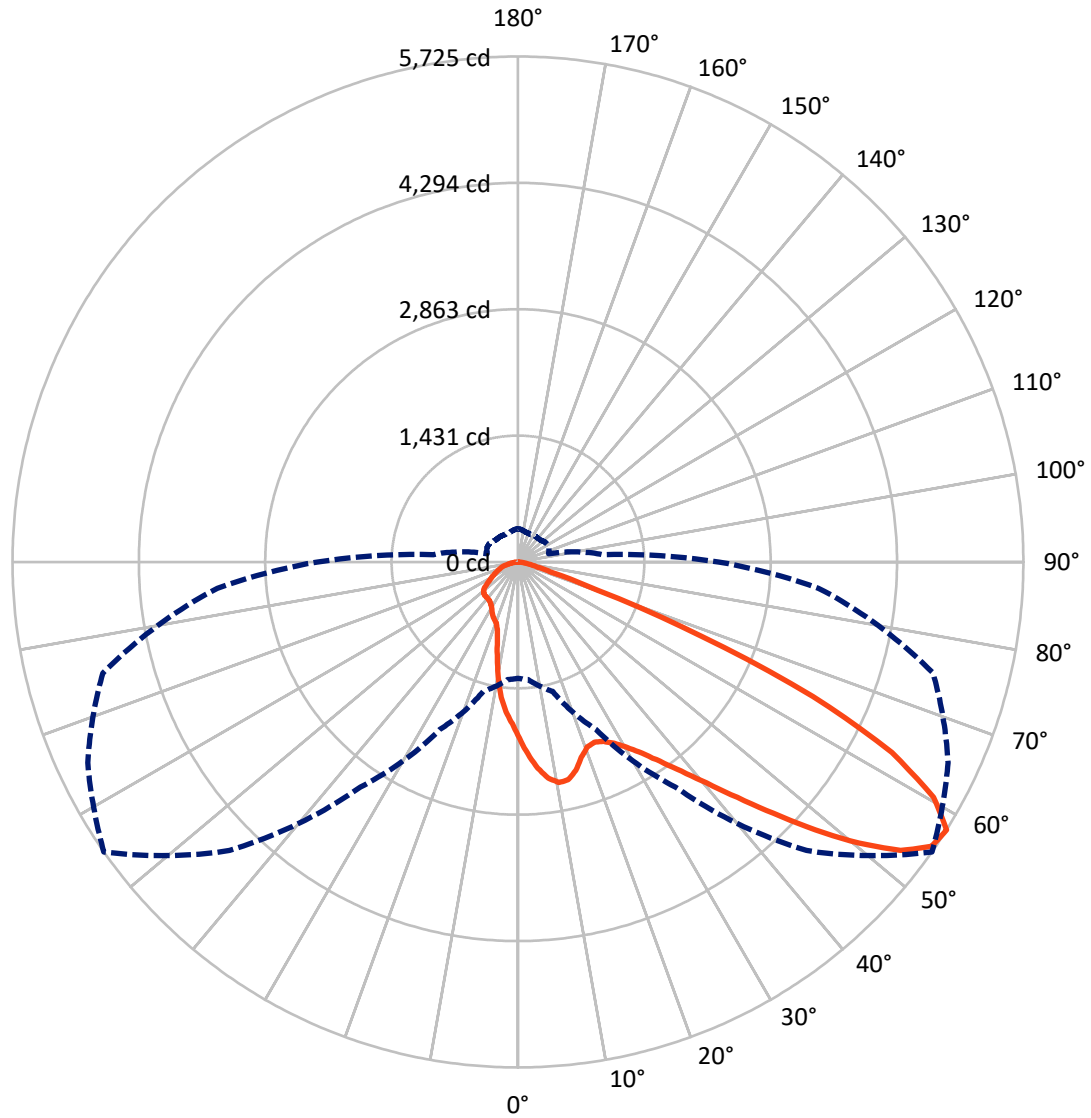
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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 | 1441.6 | 0.0 | 1441.6 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 6525.4 | 0.0 | 6525.4 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 7967.0 | 0.0 | 7967.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 185.2 | 2.3 |
| 10°-20° | 467.6 | 5.9 |
| 20°-30° | 746.1 | 9.4 |
| 30°-40° | 1181.2 | 14.8 |
| 40°-50° | 1808.0 | 22.7 |
| 50°-60° | 1936.6 | 24.3 |
| 60°-70° | 1218.3 | 15.3 |
| 70°-80° | 360.3 | 4.5 |
| 80°-90° | 63.7 | 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° | 7967.0 | 100.0 |
| 0°-180° | 7967.0 | 100.0 |

Coefficient of Utilization



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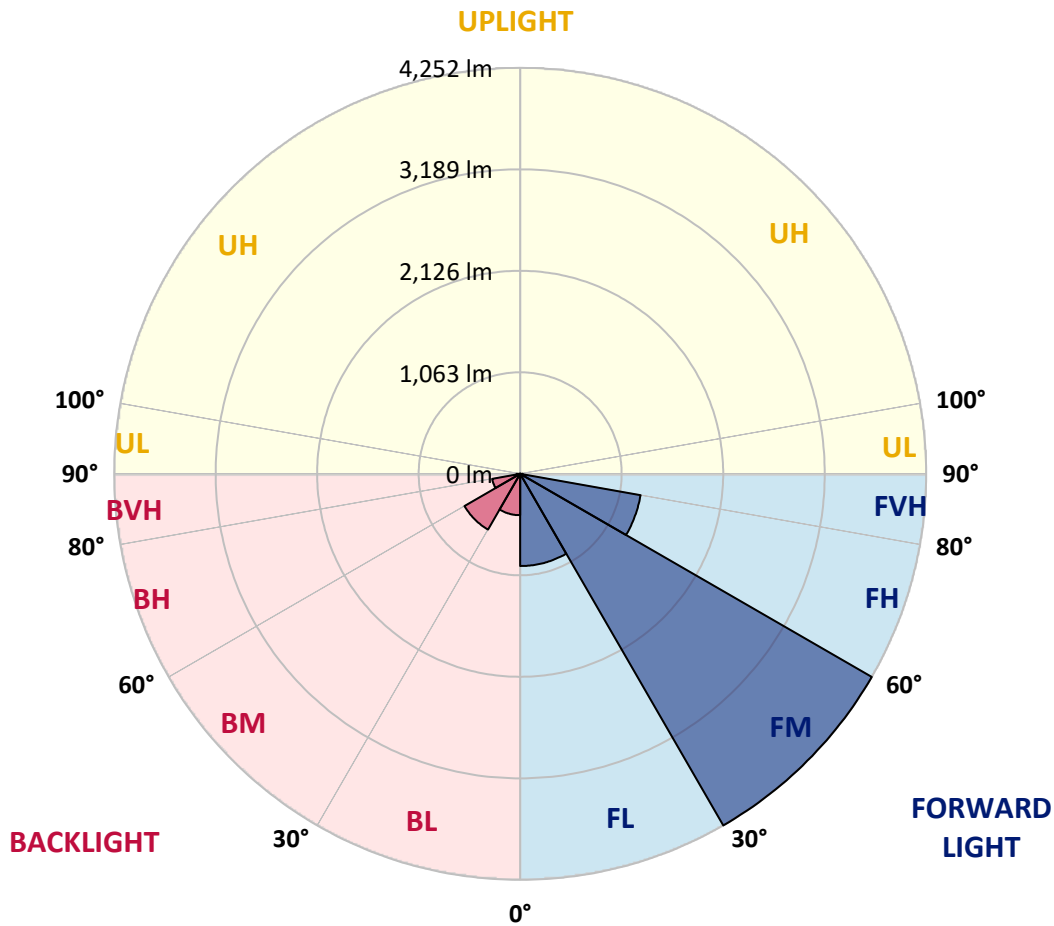
CATALOG NUMBER: GALN-SB2B-950-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 965.6 | 12.1 | | | |
| FM (30°-60°) | 4252.1 | 53.4 | | | |
| FH (60°-80°) | 1280.9 | 16.1 | | | G1/1800 |
| FVH (80°-90°) | 26.9 | 0.3 | | | G1/100 |
| BL (0°-30°) | 433.3 | 5.4 | B1/500 | | |
| BM (30°-60°) | 673.8 | 8.5 | B1/1000 | | |
| BH (60°-80°) | 297.7 | 3.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 36.8 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1996.3 | 1996.3 | 1996.3 | 1996.3 | 1996.3 | 1996.3 | 1996.3 | 1996.3 | 1996.3 | 1996.3 |
| 2.5° | 2290.3 | 2288.7 | 2297.8 | 2266.9 | 2245.9 | 2217.4 | 2180.0 | 2132.2 | 2080.7 | 2026.3 |
| 5° | 2496.7 | 2482.3 | 2491.7 | 2468.7 | 2445.6 | 2402.8 | 2347.2 | 2269.3 | 2174.2 | 2065.9 |
| 7.5° | 2464.1 | 2454.3 | 2478.6 | 2499.1 | 2516.4 | 2511.1 | 2470.3 | 2388.8 | 2266.0 | 2108.7 |
| 10° | 2201.8 | 2190.7 | 2224.9 | 2296.1 | 2400.7 | 2491.7 | 2541.2 | 2490.5 | 2359.9 | 2155.7 |
| 12.5° | 1970.3 | 1965.0 | 1987.6 | 2045.3 | 2161.4 | 2336.1 | 2532.1 | 2579.5 | 2457.6 | 2211.3 |
| 15° | 1871.5 | 1864.9 | 1879.3 | 1908.5 | 1982.7 | 2145.4 | 2449.7 | 2640.4 | 2553.5 | 2275.5 |
| 17.5° | 1849.7 | 1842.2 | 1848.4 | 1863.7 | 1911.4 | 2035.4 | 2325.3 | 2670.5 | 2653.6 | 2347.2 |
| 20° | 1890.0 | 1883.8 | 1884.7 | 1883.8 | 1917.2 | 2015.6 | 2238.9 | 2658.9 | 2740.9 | 2413.1 |
| 22.5° | 1987.6 | 1977.3 | 1977.7 | 1955.9 | 1974.0 | 2050.2 | 2216.2 | 2628.1 | 2818.8 | 2470.7 |
| 25° | 2146.6 | 2128.1 | 2131.8 | 2076.2 | 2071.2 | 2127.7 | 2251.6 | 2604.2 | 2896.2 | 2516.9 |
| 27.5° | 2364.1 | 2343.1 | 2331.9 | 2249.2 | 2209.6 | 2237.6 | 2323.7 | 2612.4 | 2969.5 | 2556.8 |
| 30° | 2635.9 | 2610.4 | 2587.7 | 2470.3 | 2398.7 | 2388.4 | 2435.7 | 2666.8 | 3056.0 | 2598.8 |
| 32.5° | 2969.1 | 2939.4 | 2898.2 | 2742.6 | 2641.7 | 2587.7 | 2580.7 | 2763.6 | 3157.3 | 2652.4 |
| 35° | 3365.7 | 3327.0 | 3268.5 | 3067.1 | 2939.4 | 2829.0 | 2771.8 | 2903.2 | 3296.1 | 2733.1 |
| 37.5° | 3774.3 | 3730.6 | 3677.1 | 3437.4 | 3280.4 | 3117.8 | 3004.9 | 3092.6 | 3481.0 | 2842.6 |
| 40° | 4151.1 | 4102.1 | 4052.3 | 3838.9 | 3670.5 | 3474.4 | 3290.3 | 3332.3 | 3707.1 | 2973.6 |
| 42.5° | 4373.5 | 4337.3 | 4318.3 | 4203.0 | 4072.9 | 3873.9 | 3645.3 | 3616.5 | 3961.2 | 3124.3 |
| 45° | 4363.6 | 4348.8 | 4407.3 | 4455.1 | 4424.2 | 4313.8 | 4061.3 | 3930.8 | 4216.2 | 3254.9 |
| 47.5° | 4130.5 | 4140.4 | 4271.0 | 4539.5 | 4657.7 | 4715.4 | 4535.0 | 4239.2 | 4437.8 | 3352.5 |
| 50° | 3496.3 | 3504.5 | 3806.8 | 4385.9 | 4717.8 | 5042.8 | 5004.9 | 4540.3 | 4609.5 | 3412.2 |
| 52.5° | 2994.2 | 2999.6 | 3129.3 | 3930.4 | 4519.3 | 5207.5 | 5428.3 | 4824.1 | 4735.1 | 3428.7 |
| 55° | 2255.3 | 2273.9 | 2419.2 | 3083.6 | 4002.8 | 5077.0 | 5686.1 | 5116.5 | 4814.6 | 3430.4 |
| 57.5° | 1317.5 | 1337.7 | 1517.3 | 2093.1 | 3111.2 | 4621.9 | 5725.2 | 5376.0 | 4868.6 | 3417.2 |
| 60° | 645.4 | 654.0 | 732.3 | 1100.1 | 1918.4 | 3745.0 | 5410.6 | 5501.6 | 4898.6 | 3410.2 |
| 62.5° | 434.9 | 433.7 | 437.0 | 542.8 | 945.2 | 2406.1 | 4754.9 | 5281.7 | 4882.6 | 3383.4 |
| 65° | 374.0 | 369.4 | 357.1 | 381.0 | 489.7 | 1100.5 | 3673.8 | 4625.2 | 4760.2 | 3316.3 |
| 67.5° | 323.3 | 323.7 | 324.1 | 316.7 | 349.7 | 507.8 | 2245.0 | 3643.3 | 4321.2 | 2998.3 |
| 70° | 267.7 | 271.4 | 273.1 | 273.1 | 285.0 | 333.2 | 958.4 | 2497.1 | 3408.5 | 2350.9 |
| 72.5° | 243.8 | 236.0 | 236.8 | 232.7 | 232.7 | 253.7 | 385.9 | 1415.6 | 2147.4 | 1322.5 |
| 75° | 198.9 | 203.9 | 204.7 | 201.8 | 192.3 | 193.6 | 229.0 | 593.9 | 918.9 | 548.6 |
| 77.5° | 171.7 | 171.7 | 173.4 | 171.3 | 163.9 | 145.0 | 152.8 | 230.2 | 312.6 | 224.9 |
| 80° | 138.0 | 137.6 | 144.6 | 148.7 | 137.1 | 107.1 | 97.6 | 127.3 | 138.8 | 98.8 |
| 82.5° | 67.1 | 71.3 | 99.3 | 113.3 | 104.2 | 77.4 | 59.7 | 79.1 | 74.1 | 43.7 |
| 85° | 39.1 | 37.1 | 44.5 | 63.0 | 59.7 | 42.8 | 28.8 | 41.2 | 38.7 | 22.2 |
| 87.5° | 12.4 | 11.5 | 9.1 | 21.4 | 17.3 | 11.9 | 7.8 | 11.9 | 10.7 | 4.9 |
| 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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 CATALOG NUMBER: GALN-SB2B-950-U-AFL

CANDELA DISTRIBUTION (continued):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1996.3 | 0° | 1996.3 | 1996.3 | 1996.3 | 1996.3 | 1996.3 | 1996.3 | 1996.3 | 1996.3 | 1996.3 | 1996.3 |
| 2002.9 | 2.5° | 1973.6 | 1925.0 | 1876.8 | 1832.8 | 1806.0 | 1788.7 | 1771.4 | 1752.0 | 1744.6 | 1733.5 |
| 2008.2 | 5° | 1953.9 | 1859.9 | 1776.3 | 1704.3 | 1638.8 | 1587.3 | 1535.4 | 1493.4 | 1474.4 | 1487.2 |
| 2025.1 | 7.5° | 1942.3 | 1806.4 | 1677.5 | 1545.3 | 1418.0 | 1316.3 | 1227.7 | 1165.6 | 1137.5 | 1144.6 |
| 2041.6 | 10° | 1932.0 | 1745.9 | 1549.4 | 1340.6 | 1157.7 | 1031.7 | 941.1 | 893.7 | 876.0 | 879.7 |
| 2063.8 | 12.5° | 1922.5 | 1677.9 | 1395.0 | 1120.3 | 925.9 | 842.7 | 816.7 | 817.1 | 820.4 | 822.9 |
| 2099.2 | 15° | 1920.9 | 1595.9 | 1222.4 | 927.5 | 800.7 | 795.3 | 823.3 | 841.0 | 850.5 | 853.4 |
| 2128.9 | 17.5° | 1918.4 | 1497.9 | 1046.5 | 796.1 | 770.2 | 806.4 | 832.4 | 843.9 | 851.3 | 851.7 |
| 2157.7 | 20° | 1908.5 | 1373.5 | 884.3 | 733.5 | 763.6 | 794.9 | 810.9 | 820.0 | 826.2 | 828.2 |
| 2179.5 | 22.5° | 1878.1 | 1235.2 | 757.8 | 705.5 | 737.2 | 762.3 | 781.3 | 791.6 | 795.3 | 797.8 |
| 2183.7 | 25° | 1823.3 | 1080.3 | 670.5 | 678.7 | 700.6 | 732.3 | 747.5 | 749.6 | 748.3 | 752.1 |
| 2173.4 | 27.5° | 1751.6 | 914.3 | 616.1 | 642.5 | 670.5 | 697.7 | 705.9 | 704.7 | 702.2 | 706.3 |
| 2155.7 | 30° | 1665.1 | 765.2 | 581.5 | 601.7 | 640.0 | 664.7 | 672.2 | 669.3 | 664.3 | 668.9 |
| 2146.6 | 32.5° | 1573.7 | 643.3 | 553.1 | 573.3 | 614.9 | 639.2 | 646.6 | 643.7 | 640.0 | 643.7 |
| 2156.9 | 35° | 1488.5 | 558.1 | 526.8 | 554.4 | 595.1 | 619.0 | 628.5 | 628.9 | 628.9 | 633.4 |
| 2184.1 | 37.5° | 1410.2 | 508.2 | 504.9 | 542.4 | 581.5 | 603.0 | 616.6 | 617.4 | 599.7 | 600.9 |
| 2230.2 | 40° | 1337.7 | 487.2 | 495.1 | 534.6 | 568.4 | 589.0 | 589.8 | 543.7 | 511.1 | 510.3 |
| 2282.9 | 42.5° | 1278.4 | 483.1 | 497.9 | 533.8 | 558.9 | 559.7 | 501.6 | 465.8 | 456.7 | 457.2 |
| 2331.5 | 45° | 1222.8 | 481.9 | 504.5 | 533.8 | 544.9 | 483.5 | 444.4 | 434.9 | 435.7 | 439.0 |
| 2353.4 | 47.5° | 1160.6 | 476.9 | 505.8 | 526.4 | 504.5 | 430.0 | 418.4 | 414.3 | 412.7 | 413.5 |
| 2348.4 | 50° | 1092.7 | 459.2 | 490.1 | 511.5 | 435.3 | 406.9 | 392.5 | 391.3 | 393.3 | 394.6 |
| 2320.8 | 52.5° | 1021.0 | 430.4 | 463.3 | 484.8 | 403.6 | 386.7 | 370.7 | 373.6 | 382.6 | 385.5 |
| 2292.0 | 55° | 974.0 | 396.6 | 427.9 | 431.2 | 381.4 | 367.8 | 354.2 | 360.8 | 377.7 | 383.0 |
| 2274.7 | 57.5° | 961.7 | 360.8 | 387.6 | 383.9 | 353.0 | 351.3 | 343.1 | 348.8 | 370.3 | 378.1 |
| 2273.9 | 60° | 958.0 | 328.7 | 348.0 | 345.1 | 325.4 | 333.2 | 331.1 | 334.0 | 341.4 | 343.9 |
| 2265.6 | 62.5° | 929.1 | 303.1 | 312.6 | 308.5 | 300.7 | 314.2 | 319.2 | 313.0 | 318.8 | 321.7 |
| 2209.2 | 65° | 855.8 | 282.5 | 278.0 | 275.1 | 278.4 | 290.8 | 300.7 | 288.3 | 293.7 | 301.9 |
| 1991.7 | 67.5° | 734.8 | 254.5 | 242.2 | 245.5 | 255.8 | 262.4 | 275.1 | 261.1 | 265.6 | 279.7 |
| 1604.2 | 70° | 594.3 | 219.1 | 208.0 | 217.5 | 227.3 | 240.9 | 243.0 | 233.5 | 244.2 | 259.9 |
| 979.0 | 72.5° | 420.5 | 183.3 | 175.5 | 194.8 | 198.1 | 215.8 | 211.3 | 206.8 | 221.6 | 226.9 |
| 483.9 | 75° | 291.6 | 147.9 | 143.3 | 158.2 | 170.1 | 185.3 | 182.0 | 187.4 | 218.7 | 221.2 |
| 241.8 | 77.5° | 184.5 | 114.9 | 112.0 | 121.5 | 138.0 | 154.9 | 160.2 | 221.2 | 373.6 | 388.4 |
| 125.6 | 80° | 107.1 | 85.7 | 82.4 | 89.8 | 104.2 | 119.9 | 154.4 | 271.4 | 246.3 | 243.4 |
| 56.4 | 82.5° | 59.7 | 58.9 | 54.8 | 56.8 | 69.6 | 86.5 | 218.3 | 191.1 | 155.3 | 160.2 |
| 22.7 | 85° | 28.0 | 34.6 | 29.7 | 28.4 | 39.1 | 101.3 | 145.8 | 109.1 | 72.5 | 70.8 |
| 4.9 | 87.5° | 7.4 | 6.6 | 6.6 | 7.4 | 16.5 | 87.3 | 58.1 | 46.5 | 27.6 | 26.8 |
| 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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