

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: P946611

Luminaire Tested: **GALN-SB2A-950-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946611
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2A-950-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5195 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

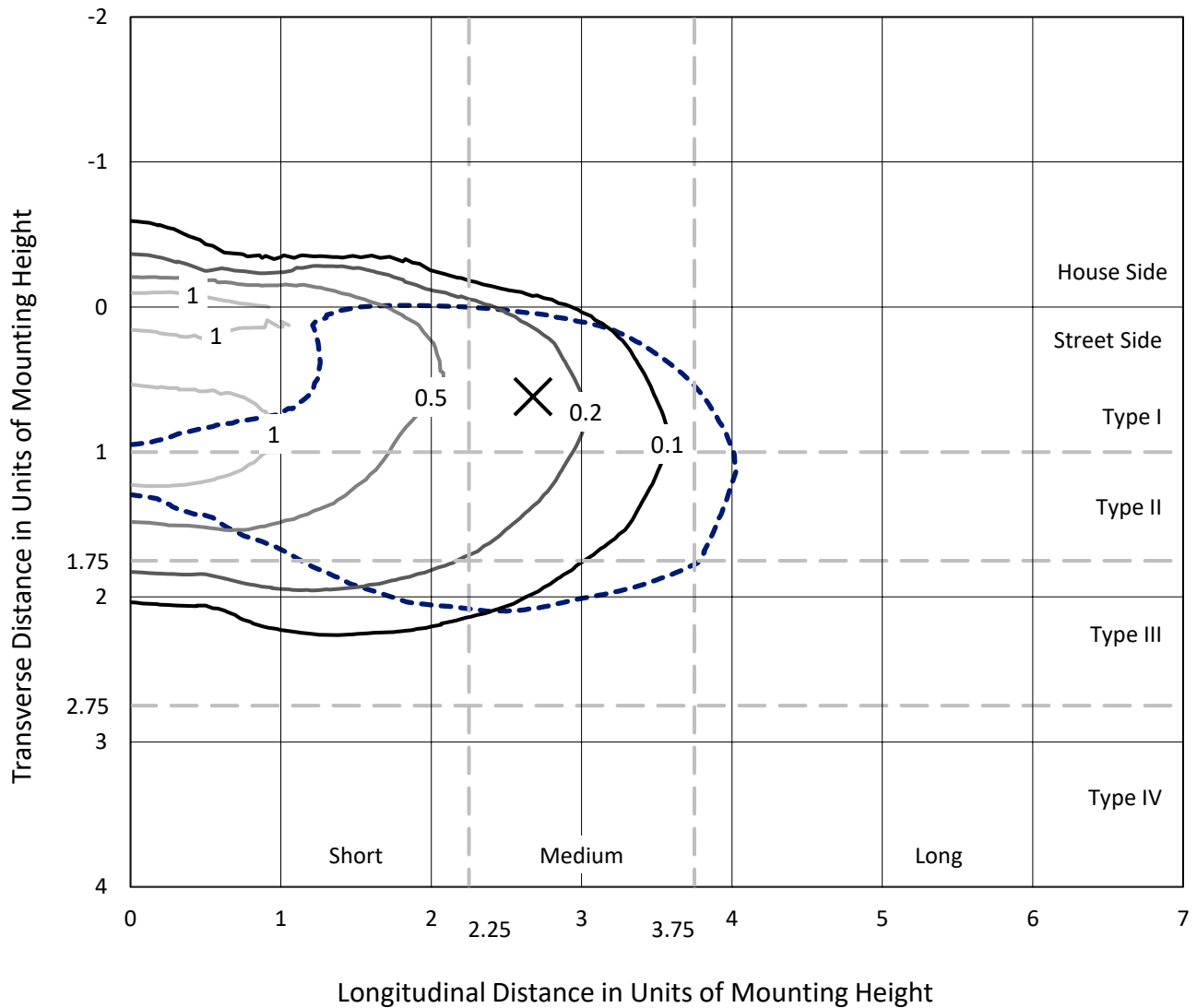
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

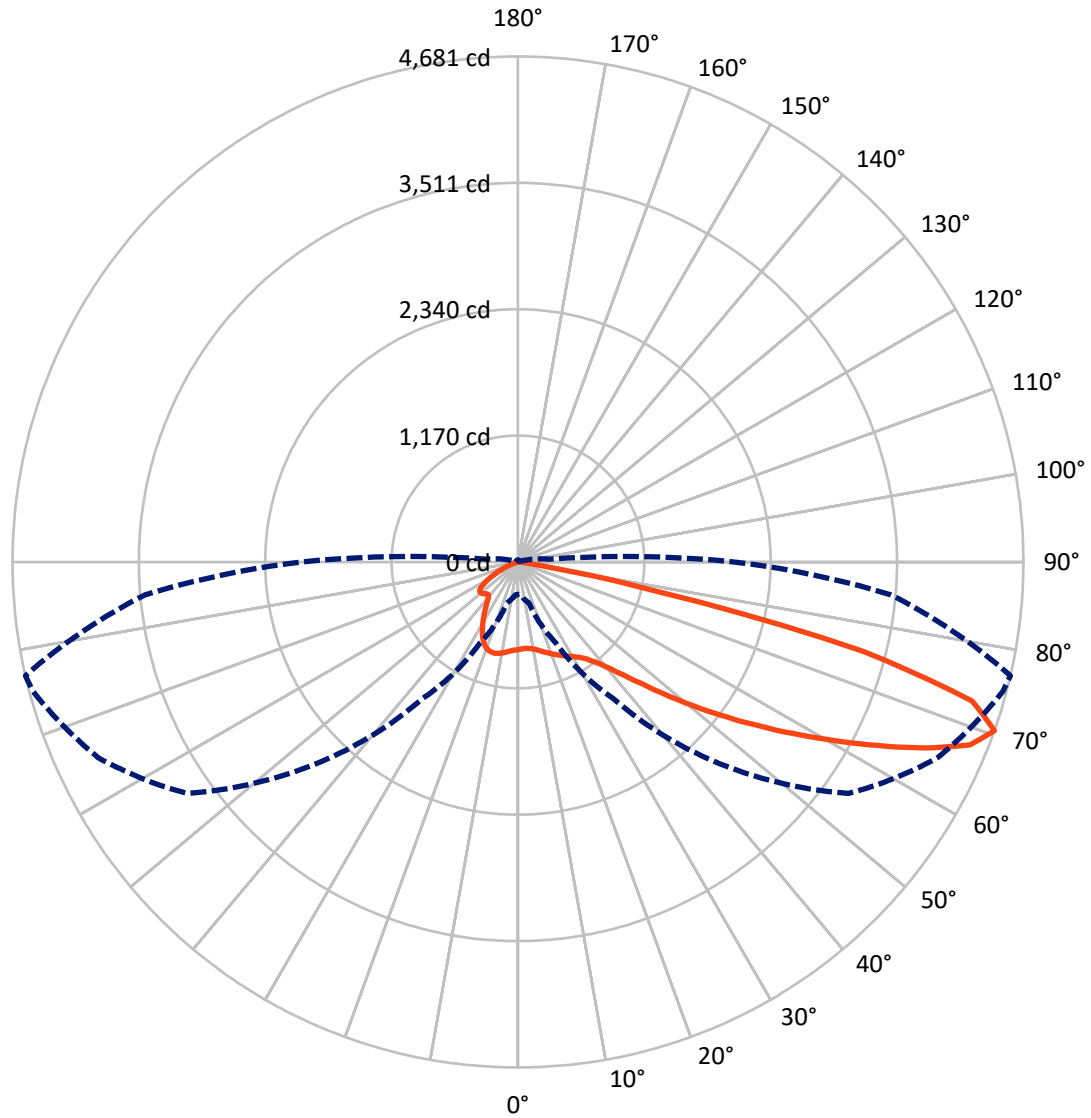
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 547.6 | 0.0 | 547.6 |
| | % Fixture | 10.5 | 0.0 | 10.5 |
| Street Side | Lumens | 4647.4 | 0.0 | 4647.4 |
| | % Fixture | 89.5 | 0.0 | 89.5 |
| Total | Lumens | 5195.0 | 0.0 | 5195.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 69.8 | 1.3 |
| 10°-20° | 165.8 | 3.2 |
| 20°-30° | 256.4 | 4.9 |
| 30°-40° | 465.3 | 9.0 |
| 40°-50° | 878.3 | 16.9 |
| 50°-60° | 1269.1 | 24.4 |
| 60°-70° | 1350.9 | 26.0 |
| 70°-80° | 715.9 | 13.8 |
| 80°-90° | 23.5 | 0.5 |
| 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° | 5195.0 | 100.0 |
| 0°-180° | 5195.0 | 100.0 |

Coefficient of Utilization



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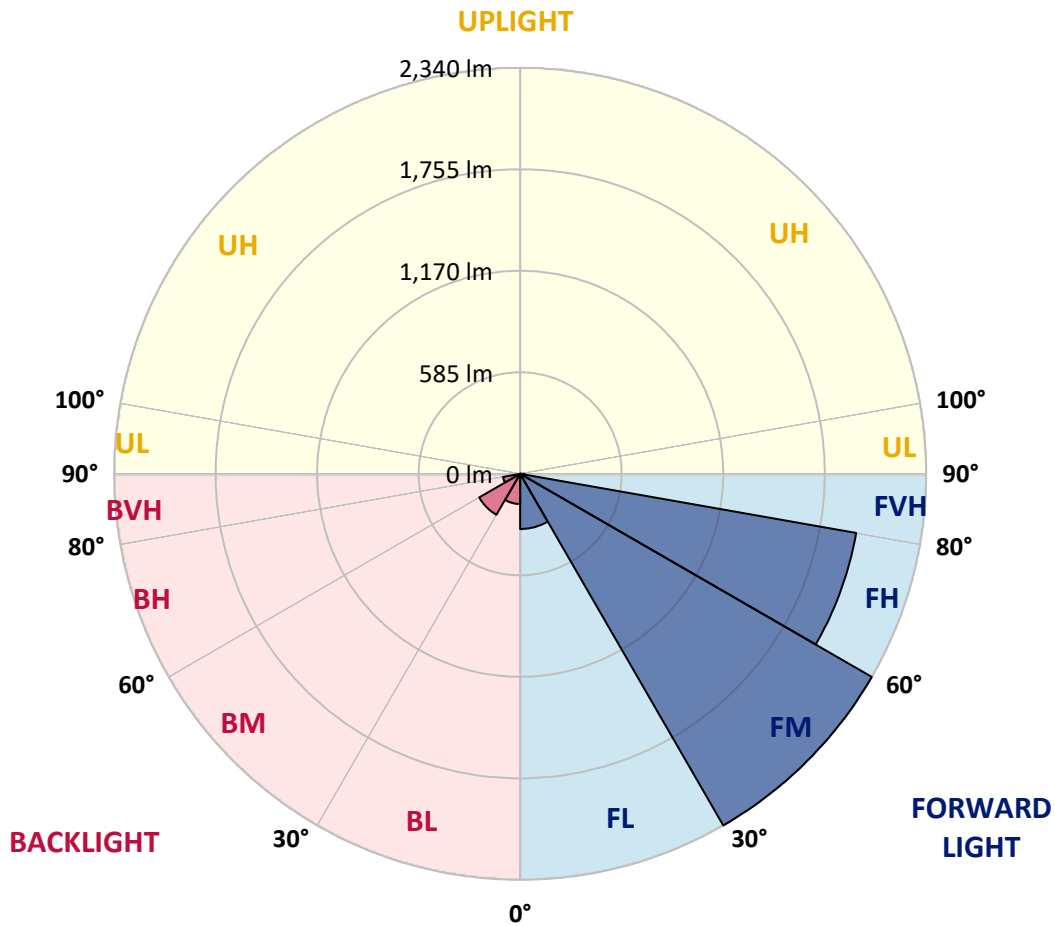
CATALOG NUMBER: GALN-SB2A-950-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 318.1 | 6.1 | | | |
| FM (30°-60°) | 2340.1 | 45.0 | | | |
| FH (60°-80°) | 1966.4 | 37.9 | | | G2/5000 |
| FVH (80°-90°) | 22.9 | 0.4 | | | G1/100 |
| BL (0°-30°) | 174.0 | 3.3 | B1/500 | | |
| BM (30°-60°) | 272.6 | 5.2 | B1/1000 | | |
| BH (60°-80°) | 100.4 | 1.9 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.6 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 810.3 | 810.3 | 810.3 | 810.3 | 810.3 | 810.3 | 810.3 | 810.3 | 810.3 | 810.3 |
| 2.5° | 760.8 | 767.7 | 766.7 | 771.3 | 772.9 | 779.5 | 786.0 | 794.9 | 804.7 | 804.4 |
| 5° | 717.8 | 724.7 | 726.3 | 732.6 | 740.4 | 750.6 | 764.1 | 781.8 | 800.2 | 803.1 |
| 7.5° | 667.0 | 674.2 | 678.4 | 690.9 | 705.3 | 726.3 | 748.3 | 774.2 | 804.7 | 809.0 |
| 10° | 616.1 | 622.7 | 628.2 | 646.0 | 668.9 | 700.1 | 735.9 | 773.3 | 814.3 | 820.5 |
| 12.5° | 584.6 | 590.8 | 597.1 | 612.5 | 641.0 | 679.1 | 727.7 | 777.8 | 830.0 | 838.9 |
| 15° | 573.5 | 579.0 | 584.0 | 597.7 | 624.3 | 667.6 | 726.0 | 787.4 | 850.0 | 861.8 |
| 17.5° | 575.1 | 578.1 | 581.3 | 591.8 | 617.8 | 662.4 | 729.0 | 803.8 | 873.6 | 884.1 |
| 20° | 584.6 | 586.3 | 586.6 | 593.8 | 616.8 | 661.7 | 734.9 | 819.5 | 896.0 | 910.1 |
| 22.5° | 596.8 | 597.4 | 596.8 | 601.7 | 623.0 | 666.6 | 742.7 | 838.5 | 920.9 | 934.0 |
| 25° | 653.5 | 641.0 | 625.3 | 615.8 | 633.5 | 676.1 | 754.6 | 864.1 | 948.1 | 960.9 |
| 27.5° | 829.7 | 793.9 | 737.5 | 674.2 | 655.2 | 689.9 | 771.0 | 890.0 | 975.7 | 987.2 |
| 30° | 1115.8 | 1068.8 | 973.0 | 830.3 | 724.7 | 718.8 | 792.3 | 916.0 | 1004.9 | 1017.3 |
| 32.5° | 1402.5 | 1391.0 | 1280.4 | 1083.0 | 881.2 | 783.1 | 827.7 | 951.1 | 1043.6 | 1053.4 |
| 35° | 1692.5 | 1669.2 | 1578.7 | 1383.5 | 1122.3 | 914.0 | 886.8 | 997.0 | 1094.4 | 1105.6 |
| 37.5° | 1914.6 | 1900.5 | 1844.4 | 1683.6 | 1408.4 | 1116.1 | 987.8 | 1068.2 | 1168.2 | 1180.7 |
| 40° | 2110.8 | 2104.2 | 2085.2 | 1979.2 | 1728.3 | 1380.5 | 1145.0 | 1178.4 | 1270.6 | 1285.4 |
| 42.5° | 2265.0 | 2280.4 | 2291.2 | 2261.7 | 2058.0 | 1682.3 | 1356.2 | 1333.3 | 1413.3 | 1428.4 |
| 45° | 2422.8 | 2428.0 | 2471.7 | 2514.3 | 2385.4 | 1997.9 | 1594.4 | 1514.7 | 1590.8 | 1609.5 |
| 47.5° | 2524.1 | 2545.1 | 2621.9 | 2697.0 | 2660.6 | 2310.9 | 1850.3 | 1728.9 | 1796.5 | 1831.6 |
| 50° | 2531.7 | 2571.4 | 2677.0 | 2807.9 | 2861.1 | 2608.8 | 2128.5 | 1973.0 | 2044.8 | 2083.6 |
| 52.5° | 2406.0 | 2467.7 | 2631.4 | 2823.0 | 2969.3 | 2861.1 | 2416.2 | 2217.1 | 2309.3 | 2359.8 |
| 55° | 1844.7 | 1925.4 | 2459.8 | 2741.0 | 2973.6 | 3052.3 | 2696.4 | 2471.3 | 2603.9 | 2661.0 |
| 57.5° | 1607.2 | 1647.9 | 1934.0 | 2598.6 | 2894.5 | 3129.4 | 2949.7 | 2713.4 | 2924.4 | 2995.3 |
| 60° | 1337.2 | 1390.7 | 1622.0 | 2365.7 | 2787.3 | 3137.0 | 3173.4 | 3025.8 | 3271.8 | 3351.5 |
| 62.5° | 908.7 | 966.8 | 1196.8 | 1965.5 | 2640.6 | 3133.4 | 3356.8 | 3347.3 | 3658.0 | 3743.6 |
| 65° | 563.0 | 599.4 | 750.9 | 1604.9 | 2435.6 | 3137.3 | 3548.7 | 3737.7 | 4065.4 | 4152.3 |
| 67.5° | 444.9 | 461.6 | 540.7 | 1232.2 | 2082.2 | 3048.7 | 3740.3 | 4104.8 | 4448.9 | 4517.8 |
| 70° | 298.9 | 309.0 | 393.4 | 826.1 | 1549.1 | 2640.0 | 3736.7 | 4289.2 | 4646.4 | 4680.9 |
| 72.5° | 157.5 | 165.3 | 230.0 | 382.5 | 935.6 | 1876.5 | 3149.8 | 4068.7 | 4449.9 | 4398.1 |
| 75° | 78.7 | 91.9 | 154.8 | 194.2 | 399.6 | 1046.5 | 1955.9 | 3207.8 | 3502.4 | 3301.7 |
| 77.5° | 59.7 | 72.2 | 127.9 | 127.9 | 139.1 | 352.3 | 828.4 | 1749.6 | 1613.8 | 1343.8 |
| 80° | 38.1 | 49.2 | 111.9 | 96.8 | 58.1 | 89.6 | 215.9 | 490.1 | 342.8 | 260.8 |
| 82.5° | 22.3 | 32.2 | 93.2 | 64.0 | 32.5 | 33.1 | 61.0 | 104.3 | 88.9 | 69.2 |
| 85° | 8.9 | 21.0 | 64.0 | 25.3 | 12.8 | 8.2 | 18.4 | 22.3 | 18.4 | 13.8 |
| 87.5° | 0.0 | 4.9 | 11.2 | 0.0 | 1.0 | 0.7 | 1.3 | 1.6 | 1.6 | 1.3 |
| 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):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 810.3 | 0° | 810.3 | 810.3 | 810.3 | 810.3 | 810.3 | 810.3 | 810.3 | 810.3 | 810.3 | 810.3 |
| 811.0 | 2.5° | 813.9 | 814.6 | 816.6 | 816.9 | 812.3 | 806.4 | 804.1 | 803.1 | 799.2 | 798.8 |
| 816.2 | 5° | 823.8 | 826.7 | 823.8 | 815.2 | 794.9 | 766.4 | 744.7 | 727.0 | 710.9 | 706.0 |
| 834.3 | 7.5° | 843.5 | 846.4 | 837.6 | 804.1 | 752.9 | 696.2 | 645.0 | 608.9 | 576.4 | 564.3 |
| 856.3 | 10° | 871.7 | 875.6 | 847.7 | 780.1 | 689.6 | 598.4 | 511.8 | 450.8 | 403.2 | 383.8 |
| 886.1 | 12.5° | 907.1 | 908.7 | 853.3 | 743.7 | 607.3 | 477.0 | 354.3 | 289.0 | 246.7 | 231.0 |
| 922.2 | 15° | 946.1 | 943.8 | 854.0 | 694.2 | 495.1 | 337.3 | 231.3 | 190.0 | 172.9 | 167.6 |
| 958.3 | 17.5° | 987.2 | 977.6 | 840.8 | 622.7 | 372.0 | 230.6 | 171.6 | 161.7 | 158.8 | 157.5 |
| 994.0 | 20° | 1027.5 | 1006.2 | 816.9 | 529.2 | 267.0 | 172.2 | 155.8 | 152.9 | 151.2 | 150.6 |
| 1030.1 | 22.5° | 1064.3 | 1027.8 | 775.9 | 420.6 | 193.9 | 152.2 | 147.3 | 144.7 | 141.7 | 140.4 |
| 1065.2 | 25° | 1100.0 | 1040.3 | 718.1 | 319.2 | 155.2 | 142.4 | 138.4 | 133.5 | 129.6 | 127.9 |
| 1103.0 | 27.5° | 1134.8 | 1048.2 | 646.0 | 236.2 | 138.4 | 133.2 | 126.0 | 119.1 | 116.1 | 115.5 |
| 1143.3 | 30° | 1171.9 | 1050.8 | 563.9 | 176.2 | 128.3 | 121.7 | 111.2 | 103.3 | 101.7 | 102.0 |
| 1197.8 | 32.5° | 1217.1 | 1054.7 | 481.3 | 144.3 | 119.7 | 107.9 | 95.5 | 87.3 | 86.0 | 87.3 |
| 1277.2 | 35° | 1271.3 | 1062.6 | 401.6 | 132.9 | 112.2 | 93.8 | 80.4 | 73.5 | 72.2 | 73.2 |
| 1378.9 | 37.5° | 1344.7 | 1075.4 | 327.1 | 130.6 | 106.0 | 82.0 | 67.6 | 62.0 | 62.0 | 62.3 |
| 1503.5 | 40° | 1442.5 | 1109.5 | 260.5 | 128.9 | 102.7 | 73.2 | 57.1 | 54.8 | 55.8 | 56.4 |
| 1662.3 | 42.5° | 1561.6 | 1182.0 | 215.5 | 127.0 | 99.1 | 69.2 | 51.8 | 50.9 | 52.5 | 53.1 |
| 1852.6 | 45° | 1695.1 | 1273.9 | 199.8 | 123.7 | 95.8 | 71.8 | 49.5 | 48.2 | 50.2 | 50.5 |
| 2065.8 | 47.5° | 1833.2 | 1363.8 | 197.8 | 120.1 | 92.5 | 75.8 | 48.9 | 45.9 | 48.2 | 48.6 |
| 2293.5 | 50° | 1973.0 | 1422.5 | 199.8 | 114.5 | 87.3 | 75.8 | 49.2 | 43.6 | 45.6 | 46.6 |
| 2529.7 | 52.5° | 2113.7 | 1449.4 | 198.5 | 102.4 | 78.1 | 71.2 | 49.2 | 41.7 | 43.6 | 44.3 |
| 2785.0 | 55° | 2250.2 | 1444.2 | 178.5 | 84.3 | 66.3 | 63.0 | 47.9 | 40.0 | 41.3 | 41.7 |
| 3026.1 | 57.5° | 2358.1 | 1371.0 | 141.4 | 65.6 | 53.8 | 52.5 | 43.6 | 38.1 | 39.0 | 38.7 |
| 3247.2 | 60° | 2414.6 | 1210.2 | 101.0 | 50.5 | 42.3 | 41.3 | 38.4 | 35.4 | 36.1 | 34.4 |
| 3434.5 | 62.5° | 2415.2 | 997.7 | 67.6 | 40.0 | 33.8 | 32.8 | 32.8 | 31.8 | 31.2 | 27.9 |
| 3579.5 | 65° | 2363.7 | 761.8 | 44.9 | 31.8 | 27.2 | 25.6 | 27.6 | 27.2 | 24.9 | 20.3 |
| 3623.8 | 67.5° | 2246.9 | 499.3 | 34.1 | 24.9 | 21.0 | 20.0 | 22.0 | 23.0 | 21.3 | 17.1 |
| 3462.4 | 70° | 2006.8 | 290.7 | 28.2 | 19.4 | 15.7 | 14.8 | 17.7 | 19.7 | 17.7 | 13.8 |
| 2959.5 | 72.5° | 1666.9 | 156.8 | 23.0 | 14.4 | 10.8 | 9.8 | 14.1 | 16.1 | 14.1 | 10.2 |
| 1898.9 | 75° | 1081.6 | 84.0 | 17.7 | 9.5 | 5.6 | 6.2 | 10.5 | 11.8 | 9.8 | 6.6 |
| 557.4 | 77.5° | 363.2 | 37.1 | 11.2 | 4.6 | 2.6 | 2.6 | 6.2 | 7.2 | 4.6 | 2.3 |
| 101.4 | 80° | 81.0 | 15.4 | 4.6 | 2.0 | 1.0 | 1.0 | 1.3 | 1.3 | 0.7 | 0.0 |
| 31.2 | 82.5° | 26.6 | 6.2 | 2.0 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 7.9 | 85° | 10.2 | 2.3 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2.6 | 87.5° | 3.9 | 0.3 | 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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| |
|-------------|
| <u>180°</u> |
| 810.3 |
| 799.5 |
| 703.0 |
| 559.4 |
| 375.6 |
| 226.0 |
| 167.6 |
| 157.1 |
| 149.9 |
| 140.1 |
| 127.3 |
| 114.8 |
| 102.0 |
| 86.9 |
| 72.8 |
| 62.0 |
| 56.4 |
| 53.1 |
| 50.9 |
| 48.9 |
| 46.9 |
| 44.3 |
| 41.7 |
| 38.7 |
| 34.1 |
| 26.9 |
| 19.7 |
| 16.7 |
| 13.1 |
| 9.8 |
| 5.9 |
| 2.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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