

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: P938864

Luminaire Tested: **GALN-SB1A-940-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938864
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-940-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2374 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

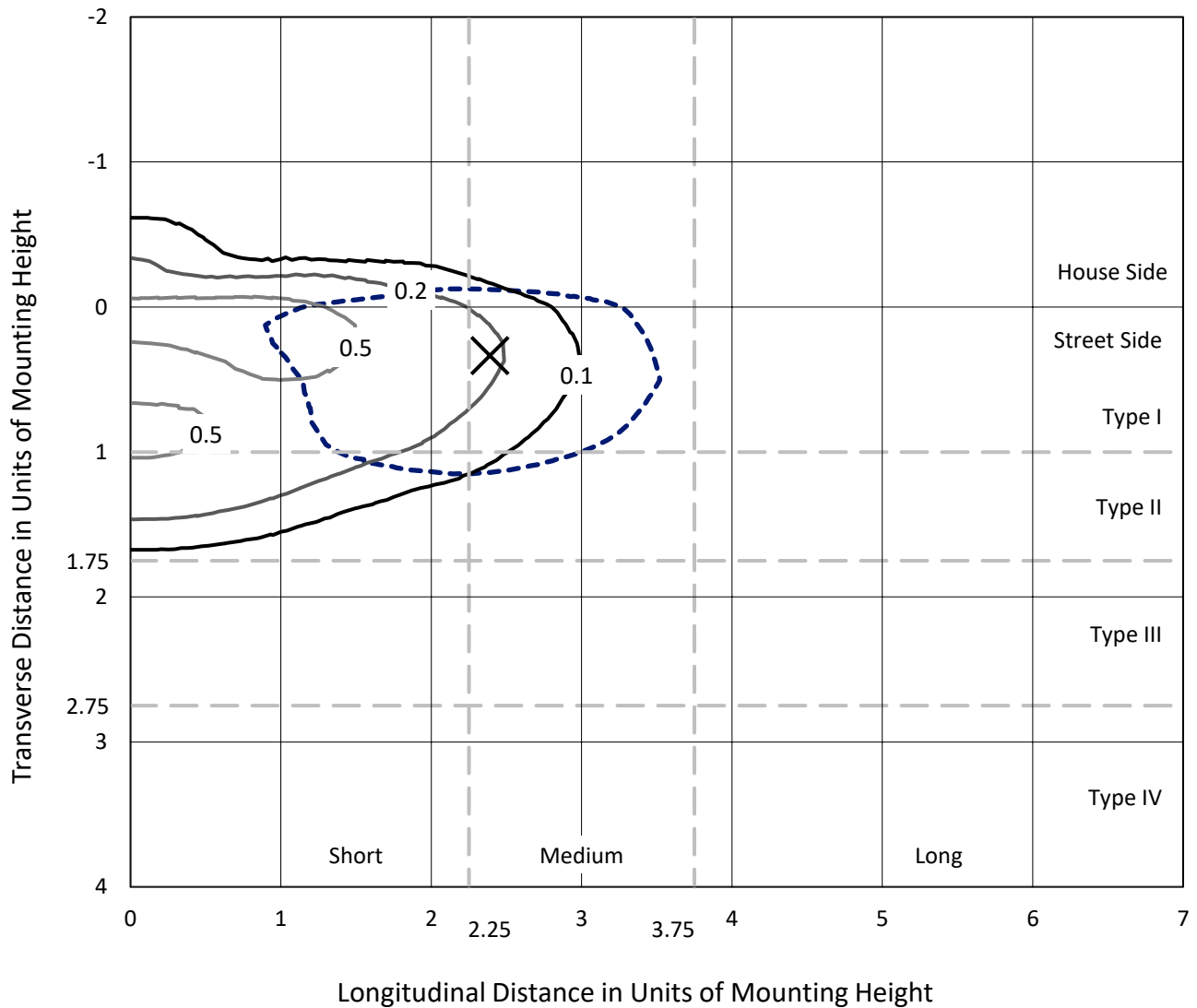
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

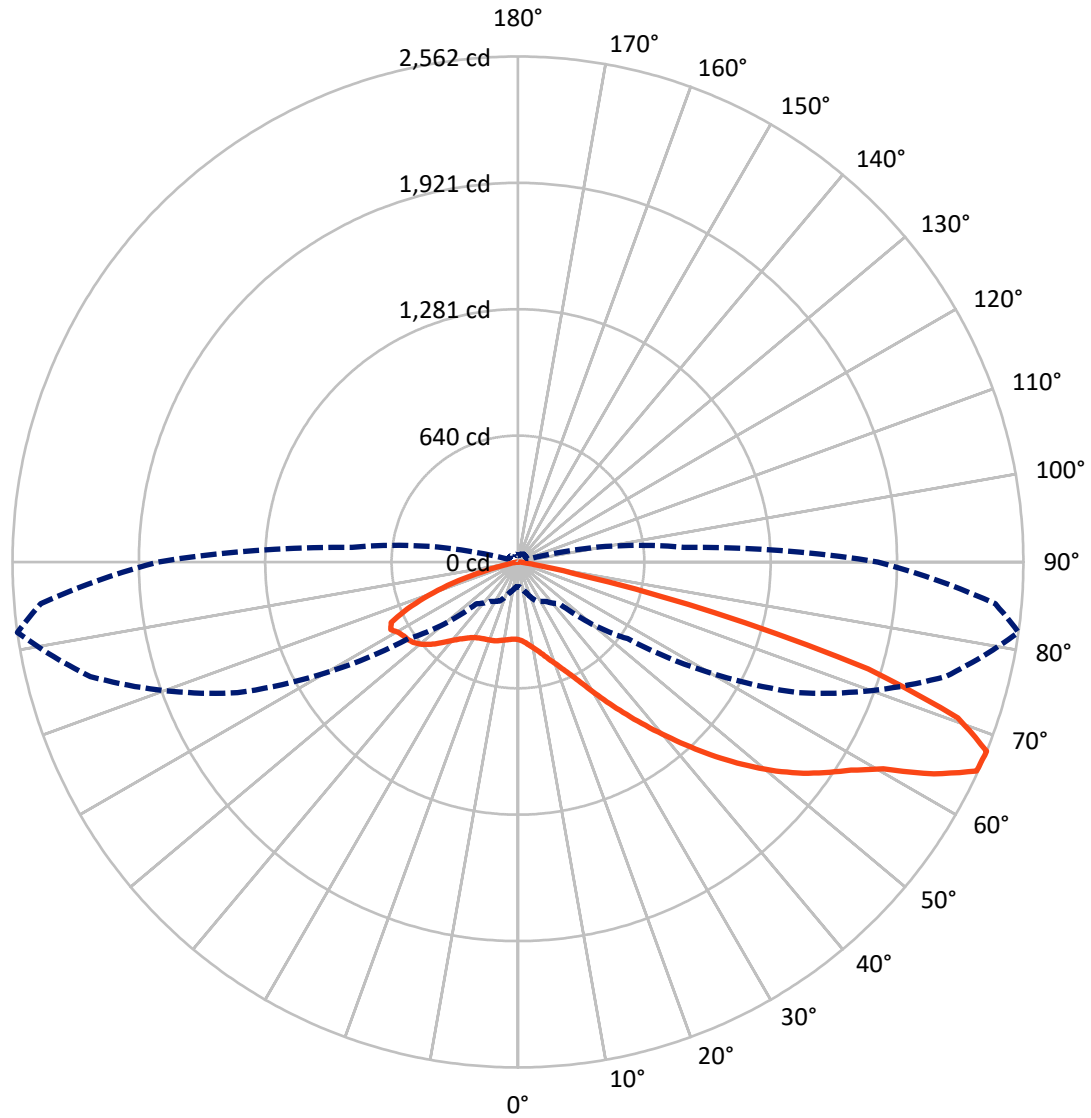
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 430.0 | 0.0 | 430.0 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 1944.0 | 0.0 | 1944.0 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 2374.0 | 0.0 | 2374.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 35.0 | 1.5 |
| 10°-20° | 91.1 | 3.8 |
| 20°-30° | 145.8 | 6.1 |
| 30°-40° | 257.9 | 10.9 |
| 40°-50° | 451.8 | 19.0 |
| 50°-60° | 602.6 | 25.4 |
| 60°-70° | 561.0 | 23.6 |
| 70°-80° | 215.3 | 9.1 |
| 80°-90° | 13.4 | 0.6 |
| 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° | 2374.0 | 100.0 |
| 0°-180° | 2374.0 | 100.0 |

Coefficient of Utilization



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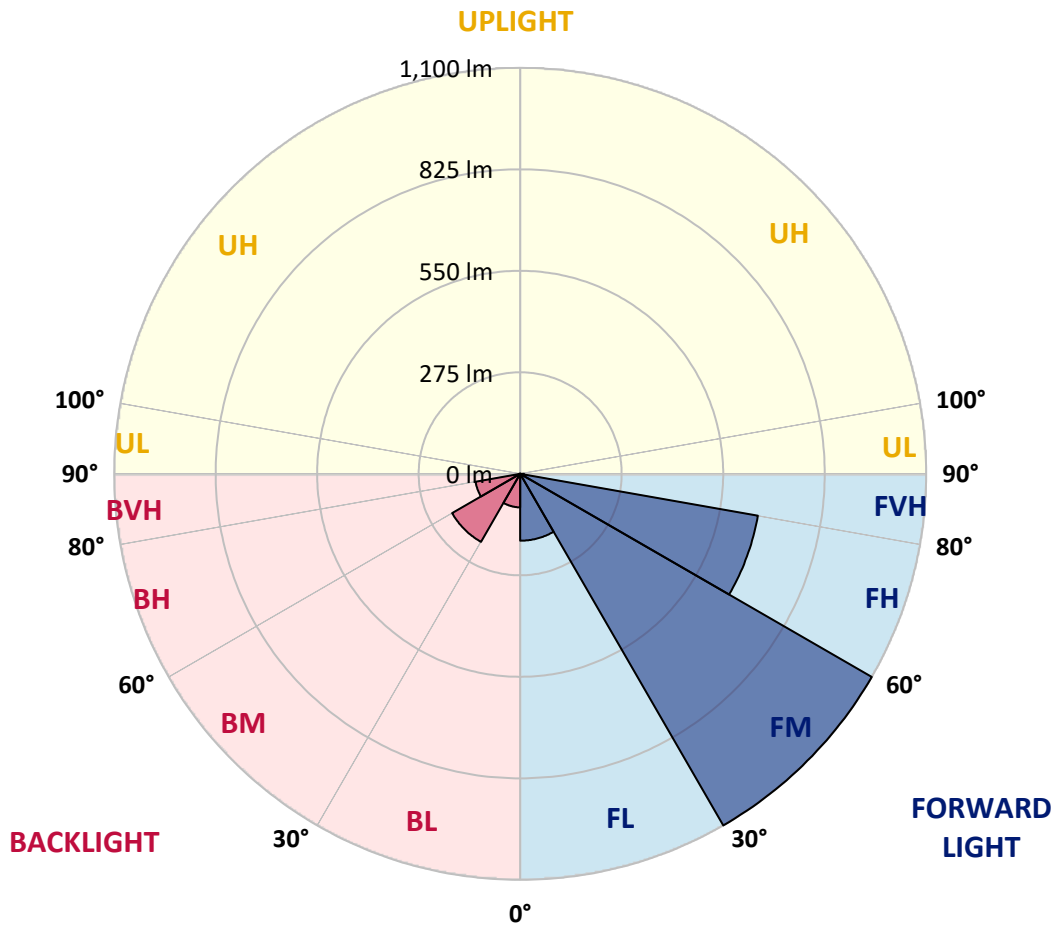
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 181.1 | 7.6 | | | |
| FM (30°-60°) | 1099.5 | 46.3 | | | |
| FH (60°-80°) | 653.6 | 27.5 | | | G0/660 |
| FVH (80°-90°) | 9.7 | 0.4 | | | G0/10 |
| BL (0°-30°) | 90.8 | 3.8 | B0/110 | | |
| BM (30°-60°) | 212.8 | 9.0 | B0/220 | | |
| BH (60°-80°) | 122.7 | 5.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.6 | 0.2 | | | G0/10 |
| 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 Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 82° |
|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| 0° | 393.3 | 393.3 | 393.3 | 393.3 | 393.3 | 393.3 | 393.3 | 393.3 | 393.3 | 393.3 |
| 2.5° | 415.7 | 418.1 | 416.7 | 416.0 | 414.8 | 413.1 | 411.8 | 407.5 | 403.0 | 400.1 |
| 5° | 424.1 | 426.5 | 426.3 | 427.0 | 427.8 | 428.3 | 428.0 | 423.2 | 416.9 | 411.9 |
| 7.5° | 416.9 | 419.6 | 421.8 | 425.3 | 431.2 | 437.6 | 440.6 | 439.6 | 433.1 | 426.3 |
| 10° | 396.5 | 399.4 | 404.7 | 412.8 | 425.4 | 439.1 | 450.6 | 455.8 | 451.7 | 444.2 |
| 12.5° | 359.3 | 362.2 | 372.6 | 390.0 | 411.2 | 435.0 | 456.9 | 471.1 | 472.1 | 464.6 |
| 15° | 317.4 | 320.3 | 331.4 | 353.3 | 385.6 | 423.7 | 460.3 | 487.1 | 496.2 | 489.7 |
| 17.5° | 291.4 | 294.0 | 302.4 | 320.0 | 353.6 | 401.2 | 459.1 | 504.2 | 524.9 | 519.8 |
| 20° | 283.6 | 285.8 | 289.7 | 302.0 | 330.1 | 377.7 | 451.2 | 520.3 | 555.8 | 552.9 |
| 22.5° | 291.9 | 294.0 | 295.2 | 300.7 | 318.3 | 362.4 | 441.3 | 536.7 | 591.7 | 592.1 |
| 25° | 311.2 | 313.3 | 311.9 | 315.4 | 323.0 | 357.6 | 437.6 | 556.0 | 636.9 | 640.6 |
| 27.5° | 343.0 | 343.2 | 340.0 | 339.8 | 341.0 | 364.7 | 441.5 | 576.7 | 693.8 | 700.8 |
| 30° | 406.8 | 404.2 | 391.8 | 378.3 | 372.1 | 386.3 | 452.4 | 601.1 | 760.9 | 773.4 |
| 32.5° | 505.1 | 501.3 | 478.4 | 446.1 | 413.6 | 421.0 | 472.1 | 629.0 | 834.1 | 856.7 |
| 35° | 611.7 | 610.7 | 586.8 | 538.7 | 482.0 | 470.4 | 504.0 | 665.6 | 913.9 | 949.8 |
| 37.5° | 710.9 | 710.4 | 696.7 | 640.1 | 571.1 | 539.3 | 555.3 | 713.4 | 999.4 | 1051.3 |
| 40° | 801.5 | 803.0 | 789.3 | 738.7 | 669.2 | 627.6 | 625.1 | 772.6 | 1094.4 | 1161.9 |
| 42.5° | 879.7 | 881.4 | 867.6 | 830.2 | 766.1 | 725.4 | 710.7 | 845.0 | 1187.2 | 1280.7 |
| 45° | 932.9 | 943.5 | 941.4 | 911.5 | 865.5 | 823.3 | 813.6 | 936.0 | 1293.0 | 1406.7 |
| 47.5° | 947.9 | 957.7 | 973.1 | 977.2 | 949.1 | 907.6 | 919.2 | 1045.5 | 1400.0 | 1532.8 |
| 50° | 910.8 | 919.9 | 951.9 | 994.4 | 1013.9 | 1001.1 | 1021.9 | 1163.0 | 1509.6 | 1658.6 |
| 52.5° | 837.7 | 846.9 | 887.3 | 954.6 | 1034.1 | 1074.4 | 1125.0 | 1278.7 | 1615.7 | 1777.8 |
| 55° | 731.9 | 741.6 | 793.4 | 869.7 | 995.6 | 1104.7 | 1211.0 | 1394.2 | 1713.0 | 1884.9 |
| 57.5° | 588.0 | 595.2 | 649.0 | 755.6 | 898.9 | 1074.6 | 1274.4 | 1520.4 | 1804.6 | 1990.2 |
| 60° | 383.2 | 389.5 | 452.1 | 571.1 | 738.6 | 974.1 | 1287.0 | 1661.0 | 1926.3 | 2127.1 |
| 62.5° | 254.8 | 259.1 | 296.2 | 383.5 | 520.1 | 781.1 | 1213.0 | 1773.3 | 2104.7 | 2365.4 |
| 65° | 174.9 | 179.1 | 216.2 | 277.1 | 336.0 | 516.7 | 1000.2 | 1758.4 | 2266.4 | 2554.6 |
| 67.5° | 124.8 | 128.4 | 159.8 | 217.2 | 243.2 | 300.1 | 678.0 | 1568.4 | 2243.2 | 2561.8 |
| 70° | 89.4 | 91.4 | 117.4 | 169.2 | 193.3 | 180.3 | 377.1 | 1199.5 | 1964.1 | 2365.6 |
| 72.5° | 62.6 | 63.2 | 81.5 | 128.9 | 155.7 | 131.6 | 179.5 | 799.7 | 1485.5 | 1856.7 |
| 75° | 42.4 | 43.2 | 54.9 | 94.5 | 124.9 | 100.5 | 95.0 | 428.8 | 872.0 | 1027.8 |
| 77.5° | 26.0 | 26.3 | 35.4 | 64.6 | 93.5 | 76.6 | 61.2 | 181.7 | 337.4 | 331.2 |
| 80° | 14.7 | 14.7 | 22.6 | 40.2 | 63.8 | 49.4 | 42.9 | 77.3 | 106.8 | 93.8 |
| 82.5° | 8.2 | 8.4 | 16.4 | 25.0 | 42.2 | 29.2 | 23.6 | 35.7 | 46.1 | 40.9 |
| 85° | 3.4 | 3.8 | 10.1 | 11.8 | 20.2 | 14.5 | 9.6 | 15.0 | 17.1 | 15.2 |
| 87.5° | 0.3 | 0.5 | 3.1 | 2.2 | 2.4 | 2.9 | 1.4 | 2.9 | 2.4 | 2.4 |
| 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° |
|--------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 393.3 | 0° | 393.3 | 393.3 | 393.3 | 393.3 | 393.3 | 393.3 | 393.3 | 393.3 | 393.3 | 393.3 |
| 399.1 | 2.5° | 395.9 | 393.3 | 386.8 | 379.3 | 369.4 | 364.6 | 358.1 | 353.6 | 349.9 | 350.2 |
| 409.0 | 5° | 403.5 | 397.1 | 382.5 | 364.4 | 341.8 | 325.8 | 308.7 | 296.9 | 287.3 | 285.3 |
| 422.7 | 7.5° | 414.1 | 403.9 | 378.4 | 345.8 | 307.7 | 278.8 | 253.0 | 236.4 | 224.6 | 220.8 |
| 439.3 | 10° | 427.8 | 412.9 | 373.1 | 322.4 | 267.5 | 230.7 | 203.1 | 190.1 | 182.0 | 179.3 |
| 458.8 | 12.5° | 443.7 | 423.4 | 366.1 | 293.8 | 226.1 | 190.7 | 173.1 | 166.6 | 164.1 | 163.2 |
| 482.7 | 15° | 463.7 | 436.4 | 355.5 | 260.0 | 191.1 | 166.3 | 158.8 | 157.9 | 158.3 | 157.9 |
| 511.4 | 17.5° | 487.5 | 450.6 | 338.3 | 225.1 | 167.5 | 153.8 | 151.1 | 151.8 | 152.6 | 152.5 |
| 543.5 | 20° | 513.4 | 464.6 | 316.2 | 194.2 | 151.4 | 144.9 | 143.4 | 144.1 | 144.8 | 144.4 |
| 580.6 | 22.5° | 543.0 | 479.6 | 291.8 | 170.1 | 140.7 | 136.7 | 135.0 | 135.2 | 135.2 | 134.5 |
| 627.6 | 25° | 578.4 | 496.2 | 266.1 | 153.0 | 132.5 | 129.4 | 127.3 | 126.7 | 125.6 | 123.6 |
| 684.7 | 27.5° | 620.6 | 513.8 | 241.5 | 141.0 | 126.0 | 123.1 | 120.7 | 119.0 | 116.4 | 113.0 |
| 753.3 | 30° | 668.1 | 535.2 | 220.7 | 133.5 | 120.8 | 117.9 | 115.2 | 112.6 | 108.9 | 104.6 |
| 832.0 | 32.5° | 724.0 | 558.1 | 205.4 | 128.5 | 116.2 | 113.2 | 109.9 | 106.8 | 102.7 | 98.5 |
| 920.6 | 35° | 790.7 | 585.7 | 196.6 | 125.1 | 112.6 | 108.5 | 104.9 | 101.5 | 98.5 | 94.7 |
| 1016.8 | 37.5° | 863.0 | 615.1 | 193.8 | 123.4 | 110.2 | 103.9 | 99.8 | 97.4 | 97.1 | 94.9 |
| 1120.9 | 40° | 942.1 | 650.0 | 195.9 | 122.4 | 107.7 | 99.5 | 95.0 | 94.5 | 95.4 | 91.4 |
| 1232.2 | 42.5° | 1025.9 | 691.4 | 199.3 | 121.2 | 104.1 | 95.0 | 90.8 | 90.8 | 90.1 | 84.6 |
| 1349.8 | 45° | 1116.5 | 739.1 | 202.7 | 118.3 | 99.8 | 90.6 | 87.3 | 86.1 | 83.2 | 77.9 |
| 1468.0 | 47.5° | 1207.7 | 787.6 | 205.3 | 113.0 | 94.7 | 86.8 | 83.9 | 81.2 | 76.9 | 72.1 |
| 1584.1 | 50° | 1294.4 | 831.2 | 202.5 | 105.1 | 88.9 | 83.2 | 80.2 | 76.4 | 71.8 | 68.5 |
| 1694.0 | 52.5° | 1371.8 | 869.0 | 190.9 | 95.9 | 82.7 | 79.5 | 76.7 | 72.8 | 69.1 | 65.6 |
| 1793.1 | 55° | 1439.2 | 899.6 | 170.4 | 87.2 | 77.3 | 76.2 | 73.5 | 68.5 | 63.4 | 60.5 |
| 1891.4 | 57.5° | 1503.8 | 922.8 | 144.8 | 80.0 | 72.3 | 72.6 | 68.5 | 64.1 | 59.3 | 56.2 |
| 2023.9 | 60° | 1589.7 | 953.9 | 118.8 | 73.3 | 67.0 | 68.0 | 63.6 | 60.3 | 54.4 | 50.4 |
| 2251.0 | 62.5° | 1727.2 | 1002.3 | 94.3 | 65.1 | 60.8 | 61.2 | 59.3 | 55.4 | 48.2 | 43.6 |
| 2419.4 | 65° | 1836.2 | 984.5 | 74.4 | 56.2 | 53.8 | 54.4 | 54.4 | 50.1 | 42.4 | 37.1 |
| 2428.5 | 67.5° | 1823.9 | 843.0 | 59.3 | 47.5 | 47.2 | 47.5 | 48.7 | 45.1 | 37.6 | 33.3 |
| 2243.5 | 70° | 1680.2 | 670.5 | 47.5 | 39.5 | 41.0 | 40.2 | 43.6 | 41.2 | 33.8 | 29.6 |
| 1739.3 | 72.5° | 1371.0 | 483.0 | 36.2 | 32.6 | 31.4 | 32.8 | 39.3 | 37.1 | 28.2 | 23.4 |
| 921.3 | 75° | 801.1 | 257.8 | 27.0 | 25.8 | 22.7 | 27.3 | 34.9 | 31.6 | 21.5 | 17.3 |
| 282.4 | 77.5° | 260.8 | 89.9 | 19.8 | 19.0 | 16.9 | 22.0 | 29.7 | 26.7 | 17.6 | 13.7 |
| 82.7 | 80° | 69.9 | 27.2 | 13.5 | 12.5 | 10.9 | 16.4 | 23.6 | 21.2 | 12.6 | 8.9 |
| 35.6 | 82.5° | 28.0 | 11.5 | 7.9 | 7.0 | 6.0 | 11.3 | 18.6 | 17.1 | 9.4 | 5.6 |
| 11.1 | 85° | 9.1 | 3.8 | 2.9 | 2.2 | 2.7 | 7.0 | 11.1 | 11.6 | 6.7 | 2.9 |
| 1.7 | 87.5° | 1.2 | 0.5 | 0.5 | 0.7 | 0.5 | 1.2 | 3.4 | 3.2 | 1.9 | 0.3 |
| 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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|-------|
| 180° |
| 393.3 |
| 346.8 |
| 280.7 |
| 217.1 |
| 177.2 |
| 162.7 |
| 157.8 |
| 152.1 |
| 144.3 |
| 134.2 |
| 123.2 |
| 112.6 |
| 104.3 |
| 98.6 |
| 94.3 |
| 94.7 |
| 91.6 |
| 84.6 |
| 77.8 |
| 72.0 |
| 68.0 |
| 65.3 |
| 60.2 |
| 55.9 |
| 49.9 |
| 43.2 |
| 36.6 |
| 32.6 |
| 29.1 |
| 22.9 |
| 16.8 |
| 13.2 |
| 8.7 |
| 5.6 |
| 2.2 |
| 0.0 |
| 0.0 |

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