

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: P939149

Luminaire Tested: **GALN-SB1C-835-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939149
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB1C-835-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6868 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

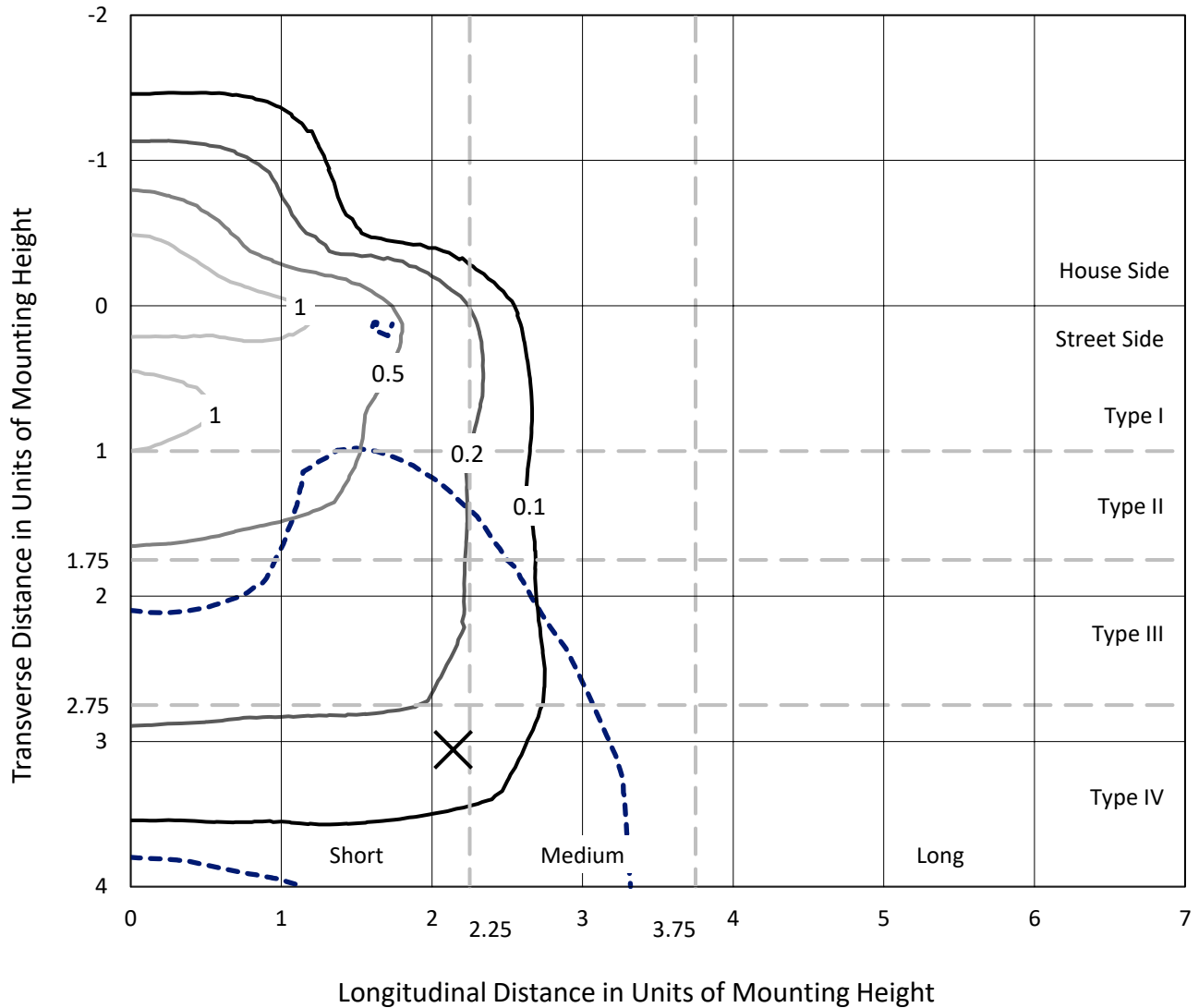
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

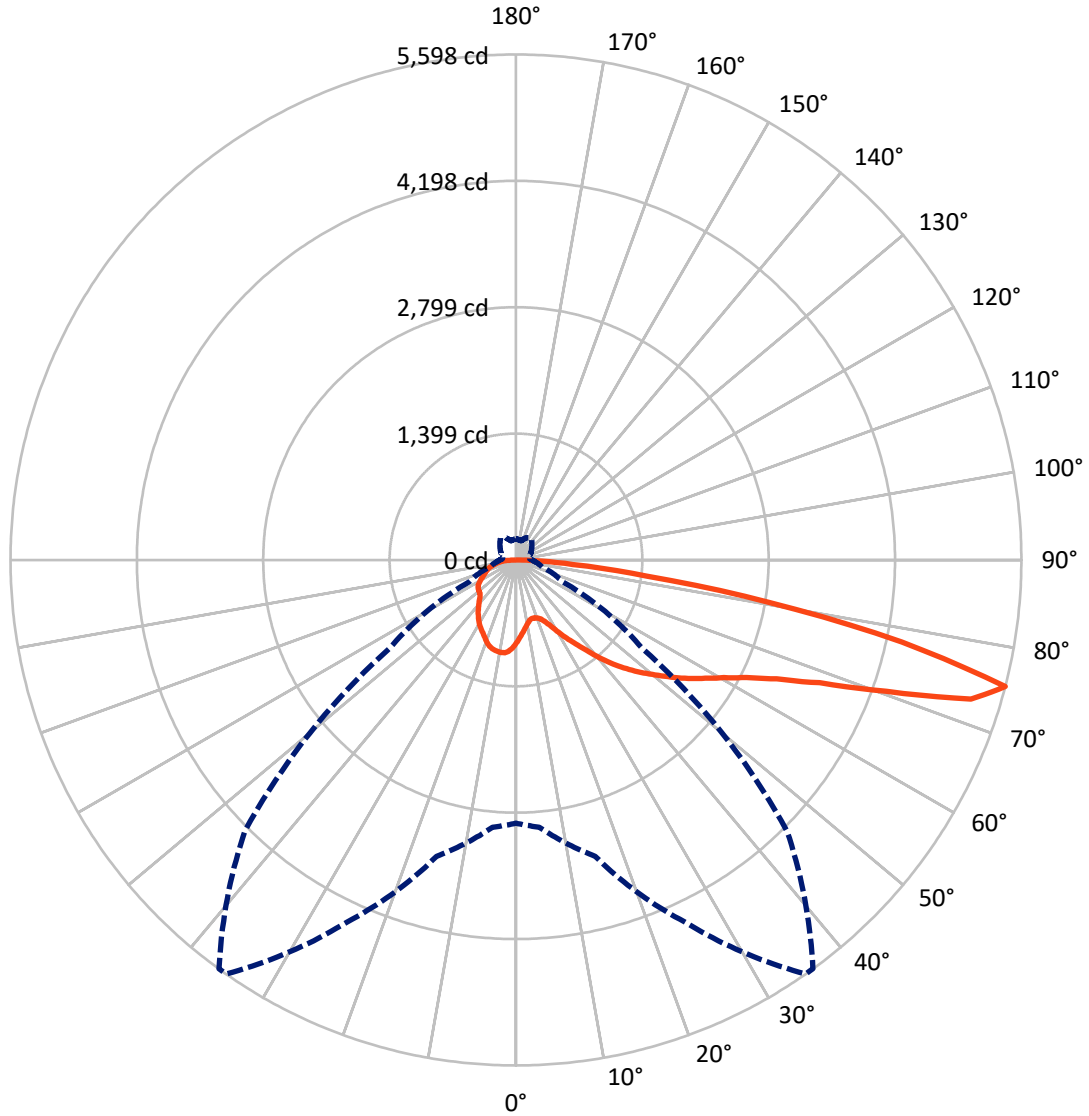
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1634.4 | 0.0 | 1634.4 |
| | % Fixture | 23.8 | 0.0 | 23.8 |
| Street Side | Lumens | 5233.6 | 0.0 | 5233.6 |
| | % Fixture | 76.2 | 0.0 | 76.2 |
| Total | Lumens | 6868.0 | 0.0 | 6868.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 86.7 | 1.3 |
| 10°-20° | 249.9 | 3.6 |
| 20°-30° | 419.7 | 6.1 |
| 30°-40° | 652.3 | 9.5 |
| 40°-50° | 968.2 | 14.1 |
| 50°-60° | 1336.6 | 19.5 |
| 60°-70° | 1621.6 | 23.6 |
| 70°-80° | 1340.2 | 19.5 |
| 80°-90° | 192.8 | 2.8 |
| 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° | 6868.0 | 100.0 |
| 0°-180° | 6868.0 | 100.0 |

Coefficient of Utilization



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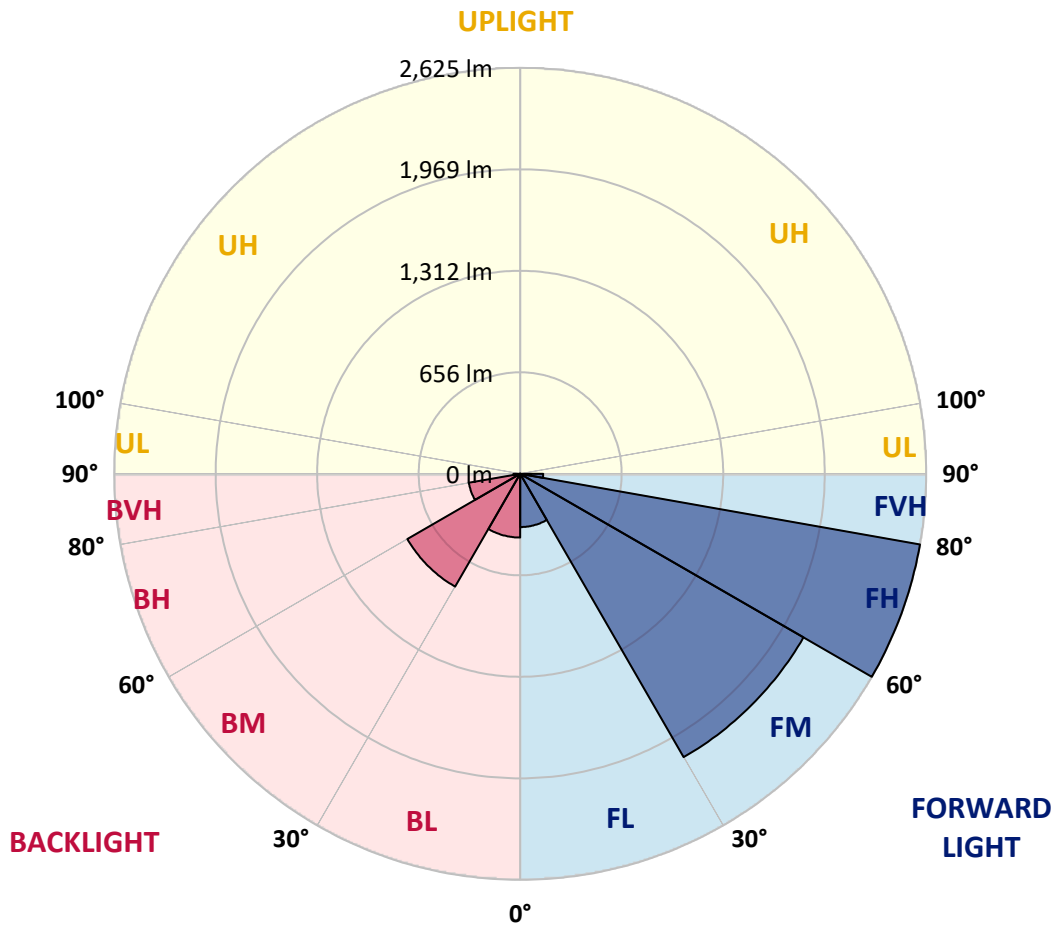
CATALOG NUMBER: GALN-SB1C-835-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 344.4 | 5.0 | | | |
| FM (30°-60°) | 2115.0 | 30.8 | | | |
| FH (60°-80°) | 2624.8 | 38.2 | | | G2/5000 |
| FVH (80°-90°) | 149.4 | 2.2 | | | G2/225 |
| BL (0°-30°) | 411.9 | 6.0 | B1/500 | | |
| BM (30°-60°) | 842.1 | 12.3 | B1/1000 | | |
| BH (60°-80°) | 337.0 | 4.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 43.4 | 0.6 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 36° | 45° | 55° | 65° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 915.2 | 915.2 | 915.2 | 915.2 | 915.2 | 915.2 | 915.2 | 915.2 | 915.2 | 915.2 |
| 2.5° | 843.9 | 849.1 | 851.3 | 850.2 | 855.8 | 855.1 | 862.9 | 872.5 | 885.9 | 898.9 |
| 5° | 778.9 | 784.5 | 789.3 | 793.8 | 804.6 | 807.9 | 820.2 | 838.7 | 863.2 | 888.1 |
| 7.5° | 718.4 | 723.3 | 730.7 | 738.8 | 757.0 | 760.4 | 780.8 | 809.8 | 843.9 | 880.3 |
| 10° | 669.0 | 673.9 | 681.7 | 691.0 | 713.6 | 717.7 | 743.7 | 782.3 | 826.8 | 872.9 |
| 12.5° | 647.9 | 649.4 | 653.8 | 663.1 | 682.8 | 685.4 | 714.0 | 758.2 | 810.1 | 867.3 |
| 15° | 646.8 | 649.7 | 650.1 | 654.9 | 671.3 | 672.4 | 698.8 | 742.6 | 799.7 | 866.2 |
| 17.5° | 657.9 | 660.1 | 656.8 | 659.8 | 673.5 | 675.4 | 696.2 | 735.1 | 796.4 | 871.0 |
| 20° | 687.6 | 689.5 | 679.4 | 675.4 | 685.4 | 686.9 | 707.3 | 740.0 | 799.7 | 881.0 |
| 22.5° | 750.7 | 751.8 | 727.3 | 710.6 | 711.4 | 712.1 | 729.9 | 759.6 | 812.7 | 899.2 |
| 25° | 849.1 | 848.4 | 809.4 | 777.1 | 758.5 | 754.4 | 766.3 | 791.6 | 834.6 | 923.4 |
| 27.5° | 964.2 | 958.6 | 919.7 | 871.4 | 830.9 | 825.0 | 822.4 | 833.2 | 865.8 | 955.3 |
| 30° | 1094.2 | 1089.0 | 1047.0 | 983.9 | 927.8 | 918.2 | 893.7 | 888.1 | 912.2 | 998.7 |
| 32.5° | 1236.7 | 1233.4 | 1183.3 | 1106.8 | 1031.8 | 1020.7 | 979.4 | 964.6 | 983.5 | 1064.5 |
| 35° | 1356.3 | 1353.3 | 1311.7 | 1233.0 | 1141.3 | 1127.6 | 1085.6 | 1068.9 | 1078.6 | 1148.7 |
| 37.5° | 1464.3 | 1462.8 | 1427.2 | 1365.2 | 1270.5 | 1253.8 | 1206.7 | 1201.1 | 1199.2 | 1259.8 |
| 40° | 1564.6 | 1560.9 | 1523.7 | 1491.1 | 1420.9 | 1405.7 | 1364.1 | 1359.3 | 1345.2 | 1396.4 |
| 42.5° | 1675.6 | 1665.9 | 1612.1 | 1596.9 | 1577.9 | 1565.3 | 1540.4 | 1541.2 | 1510.0 | 1550.5 |
| 45° | 1766.2 | 1760.6 | 1705.3 | 1696.4 | 1716.8 | 1711.6 | 1733.1 | 1738.7 | 1678.2 | 1712.0 |
| 47.5° | 1863.5 | 1858.3 | 1811.5 | 1805.2 | 1860.5 | 1862.0 | 1938.1 | 1939.9 | 1842.3 | 1879.8 |
| 50° | 1983.4 | 1976.0 | 1929.5 | 1937.3 | 1999.3 | 2004.9 | 2144.1 | 2131.5 | 1993.4 | 2050.2 |
| 52.5° | 2062.5 | 2066.9 | 2056.9 | 2069.5 | 2154.2 | 2159.4 | 2346.9 | 2314.6 | 2143.0 | 2218.4 |
| 55° | 2120.8 | 2129.7 | 2160.9 | 2189.8 | 2317.5 | 2322.7 | 2538.1 | 2488.7 | 2267.0 | 2374.3 |
| 57.5° | 2195.8 | 2183.1 | 2241.4 | 2297.9 | 2472.7 | 2486.5 | 2724.1 | 2656.5 | 2376.9 | 2508.7 |
| 60° | 2303.4 | 2294.5 | 2339.8 | 2423.4 | 2646.5 | 2668.4 | 2920.9 | 2807.6 | 2457.5 | 2615.3 |
| 62.5° | 2521.7 | 2499.5 | 2506.5 | 2580.4 | 2865.5 | 2894.5 | 3142.9 | 2939.4 | 2497.6 | 2656.9 |
| 65° | 2848.1 | 2809.9 | 2774.2 | 2825.4 | 3174.1 | 3202.7 | 3393.5 | 3043.0 | 2482.8 | 2576.3 |
| 67.5° | 3259.1 | 3221.2 | 3177.4 | 3225.7 | 3628.5 | 3651.2 | 3702.8 | 3101.3 | 2365.8 | 2265.9 |
| 70° | 3598.1 | 3584.0 | 3636.3 | 3835.0 | 4354.4 | 4355.1 | 4099.3 | 3053.0 | 2045.4 | 1606.5 |
| 72.5° | 3553.2 | 3544.6 | 3820.5 | 4434.6 | 5269.2 | 5249.5 | 4474.7 | 2687.7 | 1377.8 | 724.7 |
| 75° | 2914.9 | 2970.2 | 3397.6 | 4423.8 | 5597.8 | 5595.2 | 4244.9 | 1708.6 | 569.9 | 300.4 |
| 77.5° | 1563.1 | 1650.7 | 2205.8 | 3266.2 | 4370.0 | 4435.7 | 2984.4 | 597.8 | 244.7 | 192.3 |
| 80° | 509.8 | 586.3 | 879.2 | 1663.0 | 2839.6 | 2827.3 | 1279.1 | 234.6 | 167.4 | 136.3 |
| 82.5° | 216.5 | 225.4 | 392.8 | 785.3 | 1457.3 | 1434.6 | 407.3 | 134.8 | 117.7 | 93.2 |
| 85° | 84.7 | 94.7 | 173.4 | 363.1 | 631.2 | 617.4 | 147.0 | 66.8 | 75.4 | 60.9 |
| 87.5° | 27.8 | 33.8 | 62.0 | 124.4 | 196.4 | 189.4 | 36.0 | 23.0 | 32.7 | 27.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P939149
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CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 915.2 | 0° | 915.2 | 915.2 | 915.2 | 915.2 | 915.2 | 915.2 | 915.2 | 915.2 | 915.2 | 915.2 |
| 917.8 | 2.5° | 923.0 | 928.9 | 936.0 | 946.4 | 955.3 | 962.7 | 970.5 | 975.4 | 977.2 | 982.8 |
| 919.3 | 5° | 929.7 | 942.7 | 960.1 | 977.2 | 993.9 | 1003.9 | 1012.9 | 1017.3 | 1021.4 | 1024.4 |
| 923.4 | 7.5° | 940.8 | 957.5 | 985.0 | 1007.3 | 1021.4 | 1029.6 | 1035.5 | 1034.0 | 1035.5 | 1036.2 |
| 927.8 | 10° | 950.5 | 973.9 | 1006.5 | 1027.7 | 1038.5 | 1038.8 | 1037.4 | 1032.2 | 1029.6 | 1029.9 |
| 934.5 | 12.5° | 962.0 | 988.0 | 1023.3 | 1041.1 | 1044.0 | 1035.9 | 1029.6 | 1020.7 | 1017.3 | 1015.8 |
| 944.5 | 15° | 977.6 | 1007.3 | 1041.4 | 1048.1 | 1040.7 | 1030.3 | 1019.5 | 1005.1 | 997.6 | 991.7 |
| 961.6 | 17.5° | 996.5 | 1029.2 | 1055.6 | 1050.7 | 1034.8 | 1017.7 | 1000.2 | 978.3 | 963.1 | 956.8 |
| 985.0 | 20° | 1022.9 | 1052.2 | 1066.3 | 1045.2 | 1021.0 | 995.0 | 965.3 | 938.6 | 924.5 | 918.2 |
| 1014.7 | 22.5° | 1054.8 | 1083.0 | 1076.7 | 1035.5 | 1001.3 | 959.8 | 922.6 | 903.0 | 895.9 | 891.4 |
| 1053.0 | 25° | 1093.1 | 1117.2 | 1084.1 | 1021.4 | 969.0 | 913.0 | 884.4 | 878.1 | 874.7 | 871.4 |
| 1099.7 | 27.5° | 1142.8 | 1155.8 | 1089.7 | 1000.6 | 918.5 | 863.2 | 852.8 | 853.9 | 852.8 | 847.3 |
| 1164.7 | 30° | 1208.5 | 1205.9 | 1094.9 | 966.8 | 860.6 | 818.3 | 819.0 | 823.9 | 824.6 | 820.9 |
| 1255.3 | 32.5° | 1295.0 | 1268.7 | 1097.5 | 923.0 | 805.3 | 778.9 | 779.7 | 784.9 | 788.6 | 782.3 |
| 1373.7 | 35° | 1399.7 | 1341.8 | 1093.4 | 868.1 | 762.6 | 741.4 | 735.9 | 737.4 | 738.5 | 732.5 |
| 1517.4 | 37.5° | 1521.9 | 1423.9 | 1075.2 | 807.2 | 727.3 | 704.7 | 692.8 | 682.8 | 676.8 | 671.3 |
| 1680.0 | 40° | 1655.9 | 1513.3 | 1041.8 | 747.8 | 688.0 | 665.7 | 647.9 | 628.9 | 608.9 | 601.5 |
| 1852.3 | 42.5° | 1796.3 | 1605.4 | 1001.3 | 691.0 | 642.7 | 624.5 | 605.6 | 578.1 | 548.0 | 532.8 |
| 2031.3 | 45° | 1941.8 | 1699.7 | 961.6 | 634.9 | 596.3 | 588.5 | 566.6 | 533.5 | 500.9 | 481.6 |
| 2210.6 | 47.5° | 2084.4 | 1788.8 | 903.3 | 578.5 | 552.8 | 561.4 | 544.3 | 513.9 | 477.5 | 447.0 |
| 2388.5 | 50° | 2220.6 | 1872.4 | 807.9 | 521.3 | 517.6 | 553.2 | 536.9 | 493.1 | 451.5 | 412.5 |
| 2563.0 | 52.5° | 2355.8 | 1939.9 | 685.8 | 469.3 | 498.6 | 551.0 | 527.2 | 479.0 | 428.1 | 387.2 |
| 2727.1 | 55° | 2470.5 | 1974.8 | 568.1 | 424.7 | 471.2 | 532.0 | 515.7 | 462.2 | 395.0 | 351.6 |
| 2839.6 | 57.5° | 2535.8 | 1946.6 | 470.0 | 380.9 | 433.3 | 500.9 | 496.0 | 426.6 | 355.7 | 322.3 |
| 2861.5 | 60° | 2507.6 | 1832.3 | 389.8 | 342.7 | 397.3 | 467.1 | 461.9 | 391.3 | 325.6 | 294.1 |
| 2744.1 | 62.5° | 2352.1 | 1614.3 | 326.4 | 309.3 | 364.6 | 432.5 | 427.7 | 364.2 | 302.6 | 272.1 |
| 2432.6 | 65° | 2038.7 | 1313.2 | 277.0 | 281.4 | 331.6 | 391.0 | 398.0 | 341.6 | 284.4 | 254.7 |
| 1882.0 | 67.5° | 1554.9 | 951.2 | 238.4 | 257.3 | 299.3 | 350.1 | 370.5 | 325.2 | 269.2 | 241.0 |
| 1089.0 | 70° | 886.2 | 540.2 | 205.7 | 233.9 | 270.7 | 312.2 | 349.4 | 312.2 | 252.8 | 229.5 |
| 408.0 | 72.5° | 336.0 | 248.0 | 177.8 | 210.5 | 243.2 | 280.3 | 326.0 | 291.8 | 233.9 | 216.5 |
| 210.9 | 75° | 179.3 | 151.1 | 149.6 | 183.0 | 211.6 | 249.1 | 296.7 | 271.8 | 219.8 | 228.7 |
| 145.9 | 77.5° | 122.2 | 106.9 | 125.1 | 156.7 | 177.1 | 214.6 | 265.5 | 241.3 | 190.5 | 189.7 |
| 101.0 | 80° | 84.7 | 75.7 | 101.7 | 126.2 | 137.0 | 180.4 | 231.7 | 207.2 | 155.2 | 144.8 |
| 62.4 | 82.5° | 50.9 | 49.4 | 76.1 | 94.3 | 96.9 | 139.2 | 192.0 | 173.8 | 127.0 | 110.6 |
| 37.1 | 85° | 27.8 | 29.3 | 48.6 | 55.3 | 56.4 | 97.3 | 150.4 | 134.4 | 97.6 | 82.1 |
| 13.4 | 87.5° | 7.8 | 10.0 | 17.8 | 21.9 | 27.1 | 50.5 | 89.5 | 79.8 | 49.0 | 34.2 |
| 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> |
|-------------|
| 915.2 |
| 982.4 |
| 1025.1 |
| 1037.4 |
| 1030.7 |
| 1015.1 |
| 993.5 |
| 957.2 |
| 917.4 |
| 892.2 |
| 871.4 |
| 848.4 |
| 822.8 |
| 785.3 |
| 736.6 |
| 675.0 |
| 604.8 |
| 534.6 |
| 480.1 |
| 443.7 |
| 409.2 |
| 382.8 |
| 347.9 |
| 317.8 |
| 289.6 |
| 267.3 |
| 249.9 |
| 236.5 |
| 226.5 |
| 213.5 |
| 236.1 |
| 174.9 |
| 138.5 |
| 111.4 |
| 82.8 |
| 34.2 |
| 0.0 |

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