

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: P946110

Luminaire Tested: **GALN-SB1D-835-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946110
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-835-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3500K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9423 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

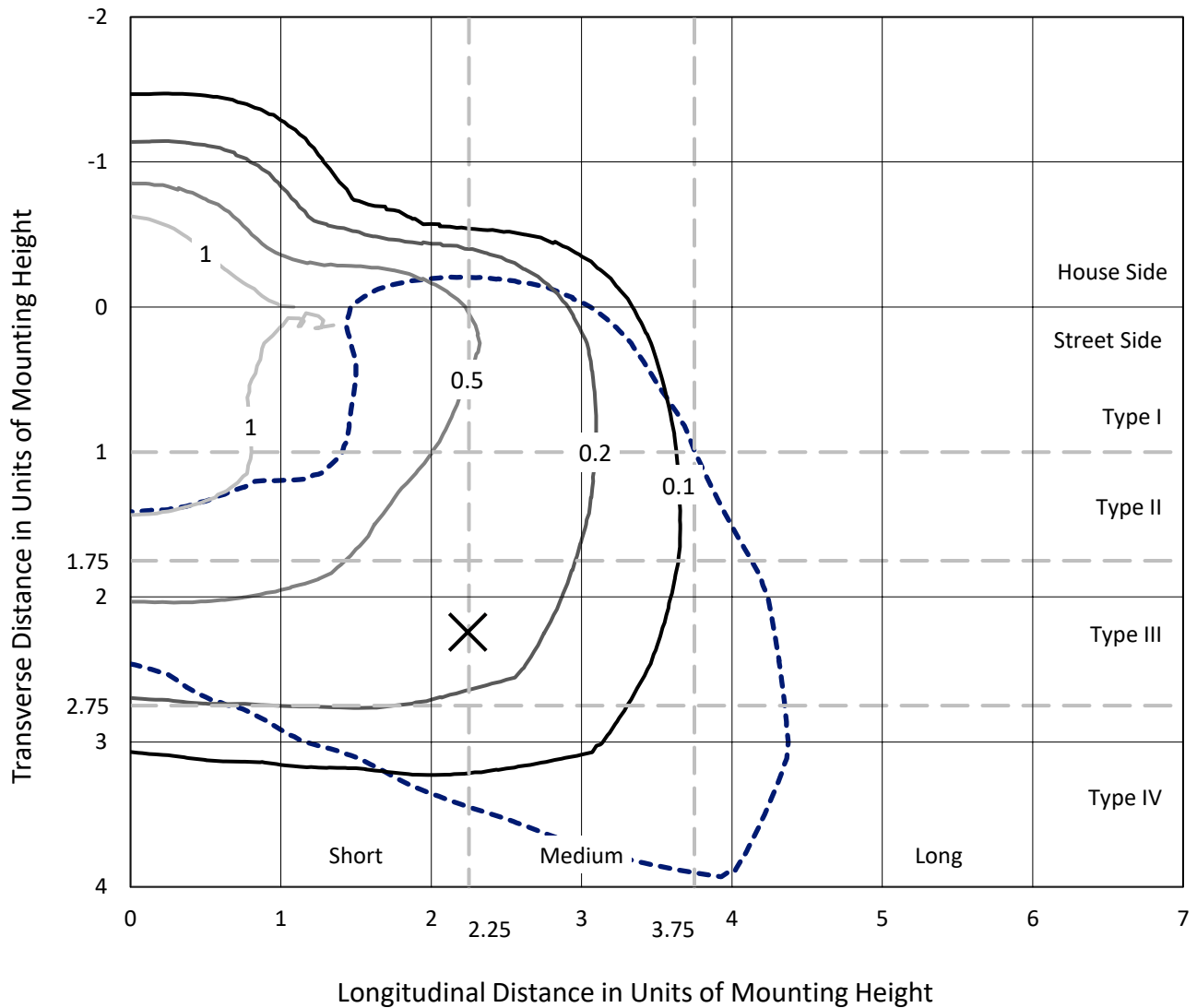
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

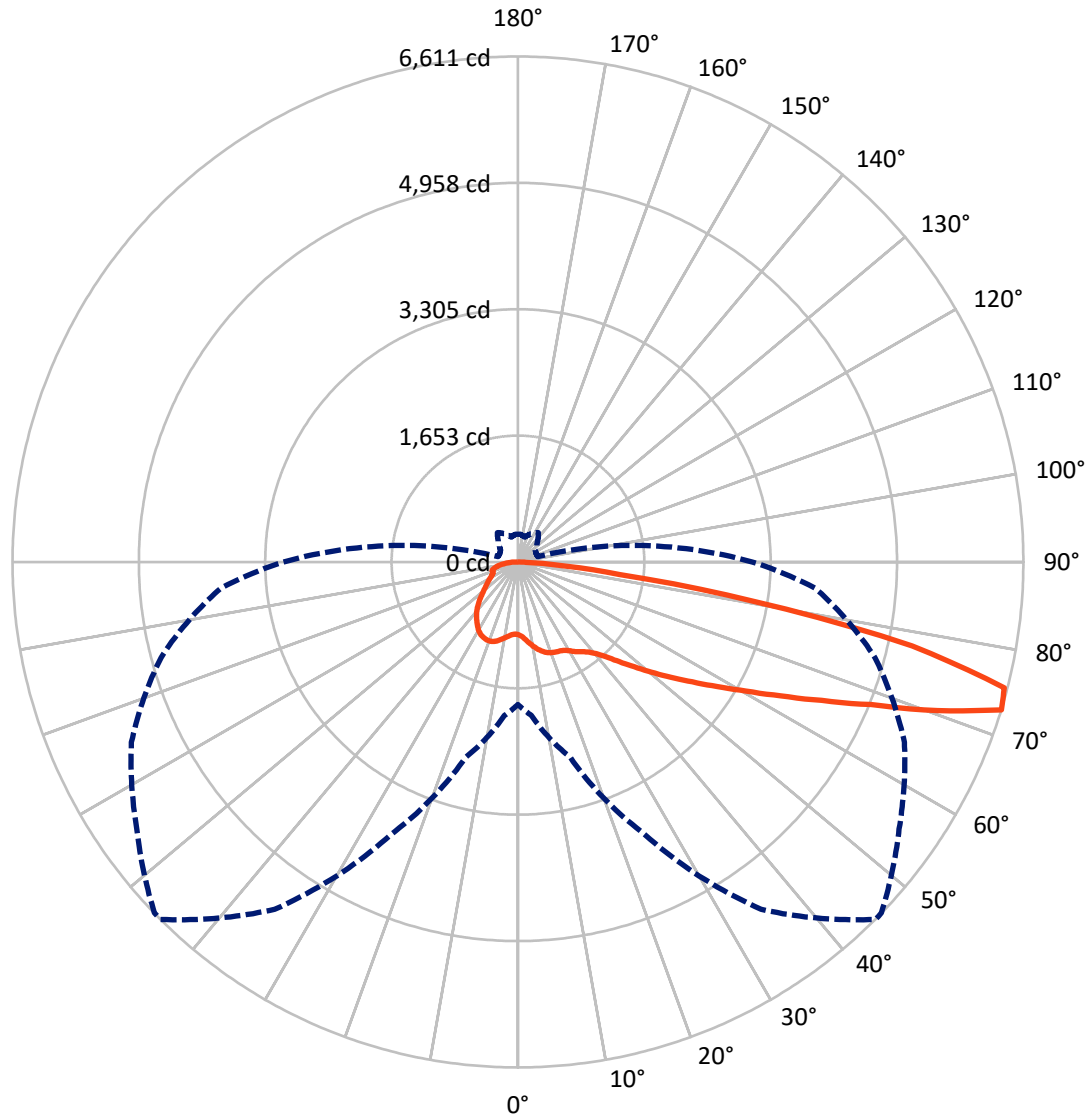
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2130.2 | 0.0 | 2130.2 |
| | % Fixture | 22.6 | 0.0 | 22.6 |
| Street Side | Lumens | 7292.8 | 0.0 | 7292.8 |
| | % Fixture | 77.4 | 0.0 | 77.4 |
| Total | Lumens | 9423.0 | 0.0 | 9423.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 96.8 | 1.0 |
| 10°-20° | 322.6 | 3.4 |
| 20°-30° | 561.2 | 6.0 |
| 30°-40° | 804.4 | 8.5 |
| 40°-50° | 1132.7 | 12.0 |
| 50°-60° | 1735.0 | 18.4 |
| 60°-70° | 2513.4 | 26.7 |
| 70°-80° | 2007.1 | 21.3 |
| 80°-90° | 250.0 | 2.7 |
| 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° | 9423.0 | 100.0 |
| 0°-180° | 9423.0 | 100.0 |

Coefficient of Utilization



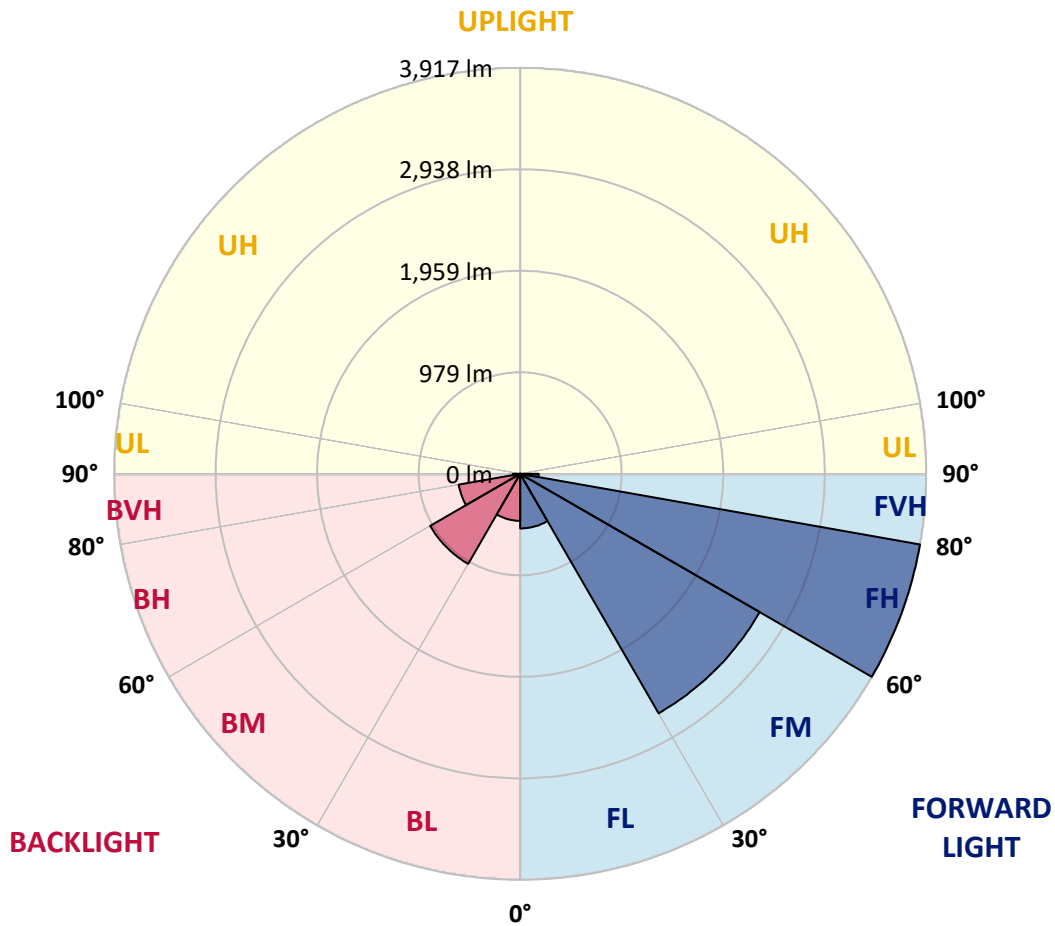
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 526.9 | 5.6 | | | |
| FM (30°-60°) | 2669.1 | 28.3 | | | |
| FH (60°-80°) | 3917.4 | 41.6 | | | G2/5000 |
| FVH (80°-90°) | 179.3 | 1.9 | | | G2/225 |
| BL (0°-30°) | 453.5 | 4.8 | B1/500 | | |
| BM (30°-60°) | 1003.0 | 10.6 | B2/2500 | | |
| BH (60°-80°) | 603.0 | 6.4 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 70.6 | 0.7 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 950.6 | 950.6 | 950.6 | 950.6 | 950.6 | 950.6 | 950.6 | 950.6 | 950.6 | 950.6 |
| 2.5° | 987.8 | 994.3 | 988.3 | 982.9 | 980.4 | 973.9 | 973.4 | 969.5 | 967.0 | 960.0 |
| 5° | 1056.8 | 1065.3 | 1055.3 | 1044.4 | 1034.5 | 1018.6 | 1016.6 | 1005.2 | 992.3 | 977.4 |
| 7.5° | 1134.8 | 1142.2 | 1130.8 | 1114.4 | 1097.0 | 1070.7 | 1070.2 | 1049.4 | 1029.0 | 1003.7 |
| 10° | 1202.8 | 1212.7 | 1197.3 | 1175.0 | 1153.1 | 1123.3 | 1119.9 | 1096.0 | 1070.2 | 1037.5 |
| 12.5° | 1262.8 | 1269.8 | 1254.9 | 1227.6 | 1202.3 | 1172.5 | 1168.0 | 1141.7 | 1112.9 | 1075.7 |
| 15° | 1310.5 | 1319.4 | 1299.6 | 1270.3 | 1243.5 | 1214.2 | 1210.2 | 1186.4 | 1157.6 | 1118.4 |
| 17.5° | 1341.8 | 1349.2 | 1328.9 | 1296.1 | 1270.3 | 1246.0 | 1243.0 | 1223.1 | 1197.8 | 1158.1 |
| 20° | 1353.7 | 1361.6 | 1340.3 | 1307.0 | 1283.2 | 1264.3 | 1262.8 | 1248.4 | 1231.1 | 1194.8 |
| 22.5° | 1365.6 | 1373.0 | 1345.2 | 1310.5 | 1289.6 | 1277.7 | 1277.2 | 1267.8 | 1260.8 | 1231.1 |
| 25° | 1413.7 | 1415.7 | 1378.5 | 1328.4 | 1298.6 | 1288.1 | 1287.6 | 1287.2 | 1290.1 | 1266.8 |
| 27.5° | 1455.4 | 1454.9 | 1423.2 | 1376.0 | 1329.8 | 1308.0 | 1307.5 | 1312.5 | 1321.9 | 1302.5 |
| 30° | 1516.5 | 1511.0 | 1473.3 | 1424.2 | 1382.0 | 1348.2 | 1345.2 | 1340.8 | 1348.2 | 1332.8 |
| 32.5° | 1646.0 | 1628.7 | 1567.6 | 1480.3 | 1425.2 | 1399.3 | 1395.4 | 1367.6 | 1370.5 | 1361.1 |
| 35° | 1831.7 | 1808.9 | 1727.5 | 1586.5 | 1478.8 | 1442.0 | 1440.0 | 1404.8 | 1398.8 | 1390.4 |
| 37.5° | 2052.6 | 2024.3 | 1929.5 | 1740.4 | 1571.1 | 1491.7 | 1488.7 | 1456.9 | 1432.6 | 1423.7 |
| 40° | 2274.5 | 2238.7 | 2160.3 | 1928.0 | 1707.1 | 1574.6 | 1565.1 | 1517.0 | 1489.2 | 1474.3 |
| 42.5° | 2489.9 | 2460.1 | 2393.1 | 2138.5 | 1874.9 | 1695.7 | 1674.8 | 1592.4 | 1571.6 | 1557.7 |
| 45° | 2680.5 | 2653.7 | 2604.6 | 2363.3 | 2071.5 | 1860.5 | 1840.1 | 1705.6 | 1699.2 | 1699.2 |
| 47.5° | 2835.4 | 2829.5 | 2777.3 | 2592.7 | 2303.3 | 2048.1 | 2012.9 | 1863.0 | 1880.3 | 1907.2 |
| 50° | 3007.2 | 2990.8 | 2935.2 | 2818.5 | 2575.8 | 2263.1 | 2234.3 | 2056.1 | 2121.1 | 2194.6 |
| 52.5° | 3165.0 | 3174.0 | 3111.9 | 3053.8 | 2883.6 | 2502.8 | 2452.2 | 2283.9 | 2424.4 | 2546.0 |
| 55° | 3327.3 | 3327.8 | 3310.5 | 3302.5 | 3206.2 | 2767.9 | 2712.3 | 2557.9 | 2781.3 | 2932.2 |
| 57.5° | 3479.7 | 3480.7 | 3506.5 | 3576.5 | 3580.5 | 3073.7 | 3010.6 | 2894.5 | 3177.9 | 3331.8 |
| 60° | 3615.7 | 3622.7 | 3693.2 | 3857.0 | 3909.6 | 3424.1 | 3364.6 | 3292.1 | 3587.9 | 3742.8 |
| 62.5° | 3661.4 | 3686.7 | 3843.6 | 4076.4 | 4234.7 | 3854.0 | 3795.4 | 3752.3 | 4018.8 | 4162.8 |
| 65° | 3584.0 | 3642.1 | 3945.4 | 4257.6 | 4569.3 | 4364.8 | 4306.7 | 4259.6 | 4466.6 | 4602.1 |
| 67.5° | 3393.9 | 3468.8 | 3939.4 | 4447.7 | 4975.4 | 4979.3 | 4925.2 | 4814.5 | 4946.6 | 4998.7 |
| 70° | 2893.0 | 3005.2 | 3592.4 | 4518.7 | 5441.5 | 5819.7 | 5767.6 | 5482.7 | 5425.6 | 5173.4 |
| 72.5° | 1864.0 | 2014.9 | 2645.3 | 3934.4 | 5545.2 | 6610.5 | 6607.5 | 6085.8 | 5577.0 | 4833.9 |
| 75° | 680.1 | 772.4 | 1229.1 | 2469.6 | 4654.7 | 6570.3 | 6589.6 | 5982.6 | 5091.0 | 3733.9 |
| 77.5° | 247.7 | 271.0 | 401.1 | 949.1 | 2862.7 | 5271.7 | 5311.9 | 4782.8 | 3623.7 | 1873.9 |
| 80° | 130.1 | 143.0 | 205.5 | 368.3 | 1226.6 | 3130.8 | 3193.8 | 2842.4 | 1703.1 | 564.4 |
| 82.5° | 72.0 | 77.9 | 115.2 | 200.0 | 552.5 | 1338.8 | 1376.5 | 1122.8 | 599.1 | 239.3 |
| 85° | 38.7 | 41.2 | 54.1 | 109.2 | 270.0 | 464.1 | 474.6 | 335.6 | 238.8 | 140.5 |
| 87.5° | 11.4 | 13.9 | 17.9 | 34.7 | 105.7 | 104.2 | 106.7 | 66.5 | 94.3 | 71.0 |
| 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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CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 950.6 | 0° | 950.6 | 950.6 | 950.6 | 950.6 | 950.6 | 950.6 | 950.6 | 950.6 | 950.6 | 950.6 |
| 958.0 | 2.5° | 955.1 | 953.6 | 948.1 | 945.6 | 942.7 | 942.2 | 944.6 | 945.1 | 945.6 | 946.1 |
| 969.0 | 5° | 964.0 | 959.0 | 954.1 | 951.1 | 952.1 | 952.6 | 957.5 | 961.0 | 963.5 | 965.5 |
| 989.3 | 7.5° | 981.4 | 977.4 | 969.0 | 968.5 | 970.0 | 974.4 | 980.9 | 988.8 | 993.3 | 996.8 |
| 1015.6 | 10° | 1007.2 | 999.7 | 989.8 | 991.3 | 994.3 | 1000.7 | 1014.1 | 1020.6 | 1028.0 | 1034.5 |
| 1047.9 | 12.5° | 1033.5 | 1027.0 | 1015.6 | 1016.6 | 1021.6 | 1033.0 | 1045.9 | 1053.8 | 1058.8 | 1063.8 |
| 1082.6 | 15° | 1067.7 | 1056.3 | 1043.9 | 1043.9 | 1052.9 | 1065.3 | 1071.2 | 1077.7 | 1080.7 | 1086.1 |
| 1119.9 | 17.5° | 1103.0 | 1088.1 | 1071.7 | 1070.7 | 1081.6 | 1087.6 | 1091.1 | 1092.1 | 1093.1 | 1099.0 |
| 1156.1 | 20° | 1138.2 | 1121.9 | 1098.5 | 1096.5 | 1099.0 | 1098.0 | 1097.5 | 1096.5 | 1098.0 | 1105.5 |
| 1193.3 | 22.5° | 1173.0 | 1154.1 | 1121.9 | 1112.9 | 1106.0 | 1096.5 | 1096.0 | 1095.5 | 1096.5 | 1104.0 |
| 1233.5 | 25° | 1213.7 | 1190.9 | 1147.7 | 1120.9 | 1097.5 | 1084.6 | 1086.1 | 1086.6 | 1087.6 | 1093.6 |
| 1275.2 | 27.5° | 1257.9 | 1232.5 | 1171.5 | 1118.4 | 1076.2 | 1067.3 | 1064.8 | 1066.3 | 1069.7 | 1079.2 |
| 1316.9 | 30° | 1302.0 | 1272.3 | 1193.3 | 1108.5 | 1049.4 | 1037.0 | 1029.0 | 1032.5 | 1043.4 | 1052.9 |
| 1353.2 | 32.5° | 1342.3 | 1312.5 | 1210.7 | 1086.6 | 1015.1 | 995.8 | 985.3 | 989.8 | 1000.7 | 1004.2 |
| 1393.4 | 35° | 1389.4 | 1355.7 | 1218.2 | 1051.9 | 977.9 | 948.1 | 934.2 | 927.8 | 933.2 | 929.7 |
| 1440.5 | 37.5° | 1442.0 | 1406.8 | 1217.2 | 1006.2 | 934.2 | 900.0 | 880.6 | 856.3 | 844.9 | 833.0 |
| 1510.0 | 40° | 1520.0 | 1469.3 | 1205.2 | 951.1 | 880.1 | 848.8 | 814.1 | 772.9 | 747.1 | 723.7 |
| 1622.2 | 42.5° | 1626.2 | 1556.2 | 1183.4 | 890.5 | 819.1 | 789.8 | 742.6 | 694.5 | 653.8 | 615.0 |
| 1792.5 | 45° | 1784.5 | 1669.9 | 1156.1 | 826.0 | 753.0 | 724.2 | 673.1 | 619.0 | 572.8 | 523.2 |
| 2034.2 | 47.5° | 2012.9 | 1822.8 | 1130.3 | 752.5 | 683.5 | 657.2 | 611.1 | 560.9 | 506.3 | 458.2 |
| 2383.7 | 50° | 2326.6 | 2042.2 | 1106.5 | 681.1 | 615.0 | 595.2 | 558.4 | 507.3 | 452.2 | 413.5 |
| 2793.2 | 52.5° | 2725.7 | 2340.5 | 1096.5 | 612.1 | 551.0 | 543.6 | 514.3 | 466.6 | 414.5 | 381.7 |
| 3270.7 | 55° | 3183.9 | 2697.4 | 1096.5 | 546.0 | 494.9 | 497.4 | 477.0 | 432.9 | 387.7 | 358.4 |
| 3763.2 | 57.5° | 3651.5 | 3058.8 | 1076.7 | 485.0 | 447.3 | 457.7 | 444.8 | 406.1 | 365.3 | 335.1 |
| 4280.9 | 60° | 4082.4 | 3361.6 | 996.3 | 429.4 | 405.1 | 421.4 | 413.0 | 379.7 | 330.1 | 304.8 |
| 4713.8 | 62.5° | 4413.5 | 3532.4 | 841.4 | 385.2 | 370.3 | 389.2 | 384.7 | 345.0 | 323.6 | 313.2 |
| 5069.2 | 65° | 4579.2 | 3504.6 | 643.3 | 346.0 | 341.0 | 370.3 | 360.9 | 359.4 | 342.5 | 330.6 |
| 5184.9 | 67.5° | 4477.5 | 3265.3 | 466.6 | 317.2 | 324.1 | 352.9 | 389.2 | 395.1 | 363.9 | 340.5 |
| 4859.2 | 70° | 4031.2 | 2832.4 | 347.5 | 289.9 | 302.8 | 353.4 | 443.8 | 413.5 | 356.9 | 329.6 |
| 3897.2 | 72.5° | 3066.7 | 2112.2 | 269.5 | 261.1 | 275.0 | 355.9 | 468.1 | 405.1 | 337.1 | 364.4 |
| 2427.9 | 75° | 1753.8 | 1159.6 | 216.4 | 225.9 | 240.3 | 332.6 | 455.7 | 383.2 | 321.7 | 334.6 |
| 962.0 | 77.5° | 668.6 | 445.8 | 178.7 | 191.1 | 193.1 | 290.4 | 435.8 | 381.7 | 306.3 | 298.8 |
| 288.4 | 80° | 231.8 | 174.2 | 147.9 | 151.9 | 149.4 | 258.1 | 418.0 | 332.1 | 250.7 | 224.4 |
| 119.1 | 82.5° | 94.8 | 86.9 | 117.1 | 112.2 | 106.2 | 200.5 | 337.5 | 271.5 | 205.0 | 181.2 |
| 57.6 | 85° | 41.2 | 55.1 | 77.4 | 68.0 | 61.6 | 139.0 | 270.5 | 229.8 | 173.2 | 149.4 |
| 18.9 | 87.5° | 8.4 | 20.8 | 32.8 | 30.8 | 31.8 | 92.8 | 192.1 | 163.3 | 122.6 | 91.8 |
| 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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180°
950.6
948.1
966.5
997.8
1033.0
1065.8
1088.1
1101.0
1108.5
1108.9
1101.5
1088.6
1063.3
1016.6
940.7
840.4
725.2
611.6
517.2
452.7
411.0
379.2
355.4
330.1
300.8
309.8
326.6
336.6
325.1
361.4
334.6
272.5
216.9
179.2
148.9
72.0
0.0

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