

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: P940209

Luminaire Tested: **GALN-SB3A-930-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940209
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-SB3A-930-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9254 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

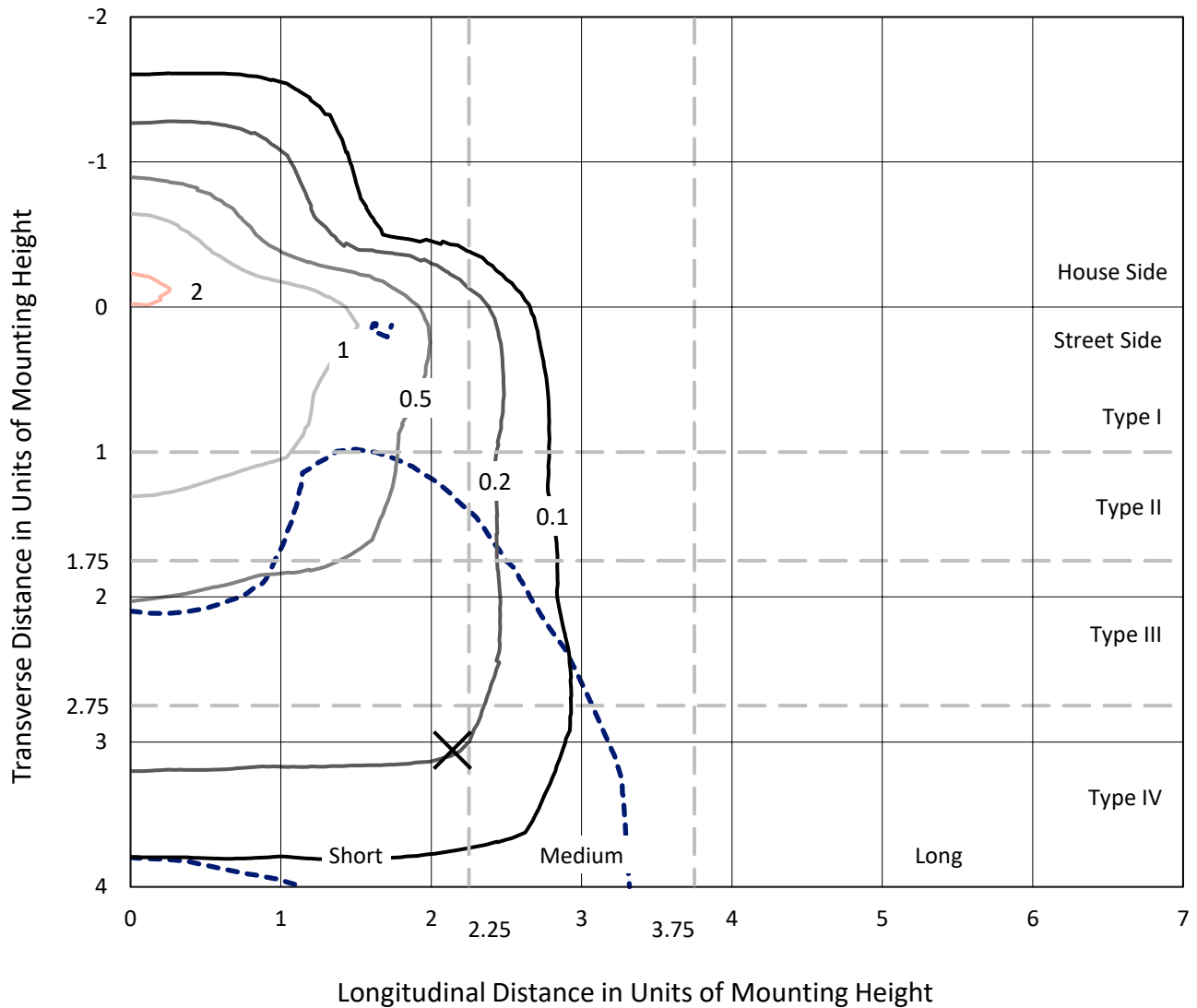
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

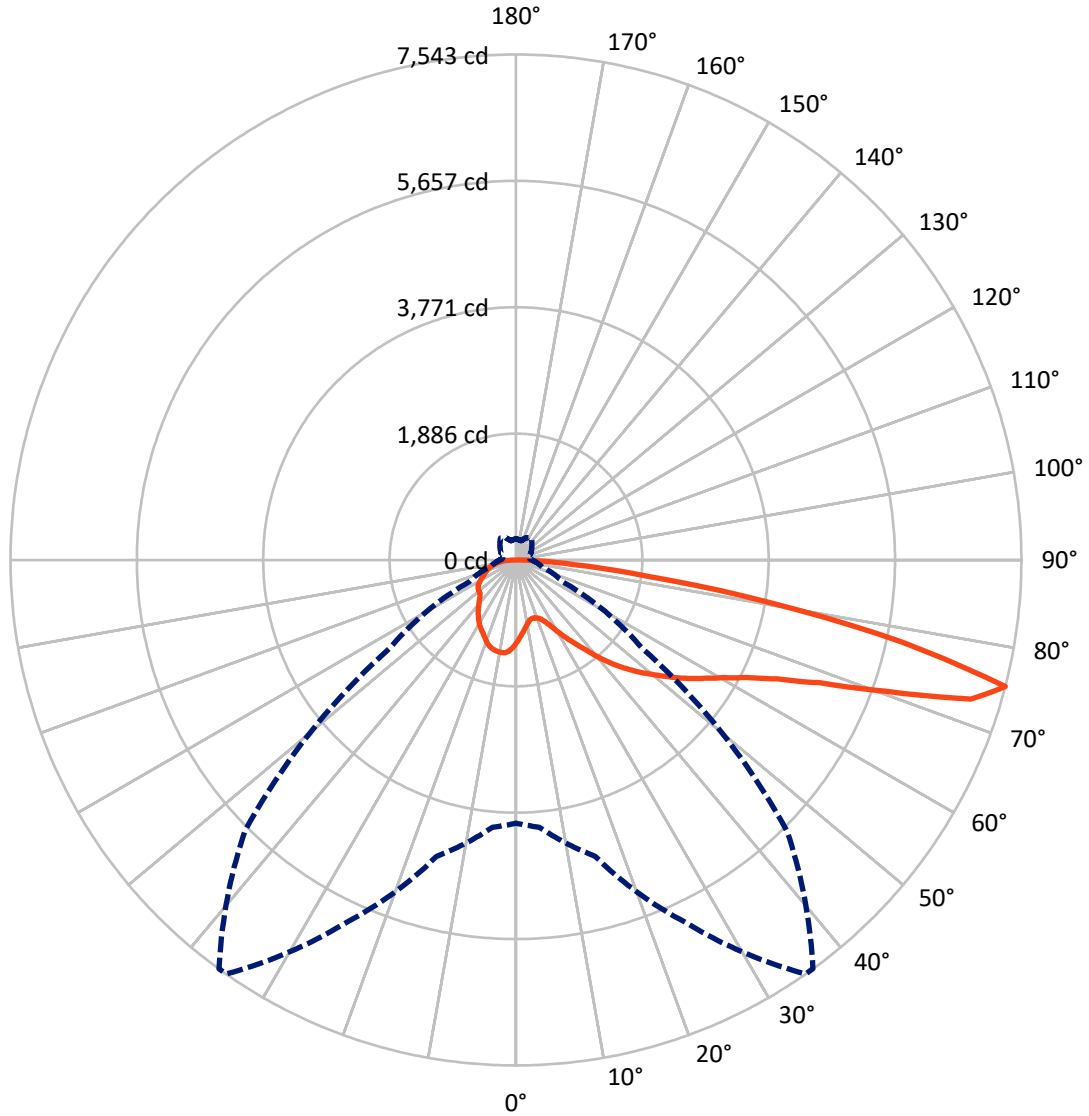
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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 | 2202.2 | 0.0 | 2202.2 |
| | % Fixture | 23.8 | 0.0 | 23.8 |
| Street Side | Lumens | 7051.8 | 0.0 | 7051.8 |
| | % Fixture | 76.2 | 0.0 | 76.2 |
| Total | Lumens | 9254.0 | 0.0 | 9254.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 116.8 | 1.3 |
| 10°-20° | 336.8 | 3.6 |
| 20°-30° | 565.5 | 6.1 |
| 30°-40° | 878.9 | 9.5 |
| 40°-50° | 1304.5 | 14.1 |
| 50°-60° | 1801.0 | 19.5 |
| 60°-70° | 2185.0 | 23.6 |
| 70°-80° | 1805.8 | 19.5 |
| 80°-90° | 259.7 | 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° | 9254.0 | 100.0 |
| 0°-180° | 9254.0 | 100.0 |

Coefficient of Utilization



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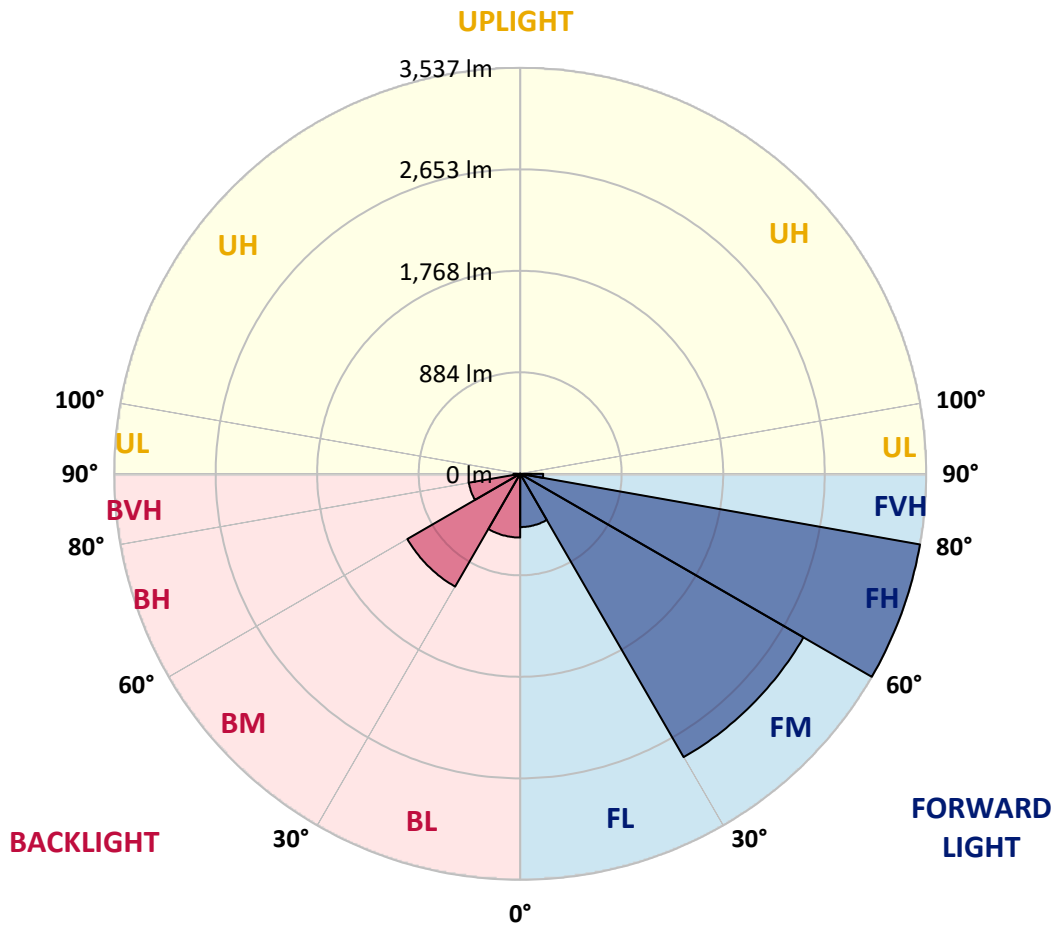
CATALOG NUMBER: GALN-SB3A-930-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 464.1 | 5.0 | | | |
| FM (30°-60°) | 2849.7 | 30.8 | | | |
| FH (60°-80°) | 3536.7 | 38.2 | | | G2/5000 |
| FVH (80°-90°) | 201.2 | 2.2 | | | G2/225 |
| BL (0°-30°) | 555.0 | 6.0 | B2/1000 | | |
| BM (30°-60°) | 1134.7 | 12.3 | B2/2500 | | |
| BH (60°-80°) | 454.0 | 4.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 58.5 | 0.6 | | | 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° | 36° | 45° | 55° | 65° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1233.2 | 1233.2 | 1233.2 | 1233.2 | 1233.2 | 1233.2 | 1233.2 | 1233.2 | 1233.2 | 1233.2 |
| 2.5° | 1137.1 | 1144.1 | 1147.1 | 1145.6 | 1153.1 | 1152.1 | 1162.6 | 1175.6 | 1193.6 | 1211.1 |
| 5° | 1049.6 | 1057.1 | 1063.6 | 1069.6 | 1084.1 | 1088.6 | 1105.1 | 1130.1 | 1163.1 | 1196.6 |
| 7.5° | 968.0 | 974.5 | 984.5 | 995.5 | 1020.0 | 1024.5 | 1052.1 | 1091.1 | 1137.1 | 1186.1 |
| 10° | 901.5 | 908.0 | 918.5 | 931.0 | 961.5 | 967.0 | 1002.0 | 1054.1 | 1114.1 | 1176.1 |
| 12.5° | 873.0 | 875.0 | 881.0 | 893.5 | 920.0 | 923.5 | 962.0 | 1021.5 | 1091.6 | 1168.6 |
| 15° | 871.5 | 875.5 | 876.0 | 882.5 | 904.5 | 906.0 | 941.5 | 1000.5 | 1077.6 | 1167.1 |
| 17.5° | 886.5 | 889.5 | 885.0 | 889.0 | 907.5 | 910.0 | 938.0 | 990.5 | 1073.1 | 1173.6 |
| 20° | 926.5 | 929.0 | 915.5 | 910.0 | 923.5 | 925.5 | 953.0 | 997.0 | 1077.6 | 1187.1 |
| 22.5° | 1011.5 | 1013.0 | 980.0 | 957.5 | 958.5 | 959.5 | 983.5 | 1023.5 | 1095.1 | 1211.6 |
| 25° | 1144.1 | 1143.1 | 1090.6 | 1047.1 | 1022.0 | 1016.5 | 1032.6 | 1066.6 | 1124.6 | 1244.2 |
| 27.5° | 1299.2 | 1291.7 | 1239.2 | 1174.1 | 1119.6 | 1111.6 | 1108.1 | 1122.6 | 1166.6 | 1287.2 |
| 30° | 1474.3 | 1467.3 | 1410.8 | 1325.7 | 1250.2 | 1237.2 | 1204.1 | 1196.6 | 1229.2 | 1345.7 |
| 32.5° | 1666.4 | 1661.9 | 1594.4 | 1491.3 | 1390.2 | 1375.2 | 1319.7 | 1299.7 | 1325.2 | 1434.3 |
| 35° | 1827.5 | 1823.5 | 1767.4 | 1661.4 | 1537.8 | 1519.3 | 1462.8 | 1440.3 | 1453.3 | 1547.8 |
| 37.5° | 1973.1 | 1971.1 | 1923.0 | 1839.5 | 1711.9 | 1689.4 | 1625.9 | 1618.4 | 1615.9 | 1697.4 |
| 40° | 2108.1 | 2103.1 | 2053.1 | 2009.1 | 1914.5 | 1894.0 | 1838.0 | 1831.5 | 1812.5 | 1881.5 |
| 42.5° | 2257.7 | 2244.7 | 2172.2 | 2151.6 | 2126.1 | 2109.1 | 2075.6 | 2076.6 | 2034.6 | 2089.1 |
| 45° | 2379.8 | 2372.3 | 2297.7 | 2285.7 | 2313.2 | 2306.2 | 2335.2 | 2342.8 | 2261.2 | 2306.7 |
| 47.5° | 2510.8 | 2503.8 | 2440.8 | 2432.3 | 2506.8 | 2508.8 | 2611.4 | 2613.9 | 2482.3 | 2532.9 |
| 50° | 2672.4 | 2662.4 | 2599.9 | 2610.4 | 2693.9 | 2701.4 | 2889.0 | 2872.0 | 2685.9 | 2762.5 |
| 52.5° | 2779.0 | 2785.0 | 2771.5 | 2788.5 | 2902.5 | 2909.6 | 3162.2 | 3118.7 | 2887.5 | 2989.1 |
| 55° | 2857.5 | 2869.5 | 2911.6 | 2950.6 | 3122.7 | 3129.7 | 3419.8 | 3353.3 | 3054.6 | 3199.2 |
| 57.5° | 2958.6 | 2941.6 | 3020.1 | 3096.2 | 3331.8 | 3350.3 | 3670.5 | 3579.4 | 3202.7 | 3380.3 |
| 60° | 3103.7 | 3091.6 | 3152.7 | 3265.2 | 3565.9 | 3595.4 | 3935.6 | 3783.0 | 3311.3 | 3523.9 |
| 62.5° | 3397.8 | 3367.8 | 3377.3 | 3476.9 | 3861.1 | 3900.1 | 4234.8 | 3960.6 | 3365.3 | 3579.9 |
| 65° | 3837.5 | 3786.0 | 3738.0 | 3807.0 | 4276.8 | 4315.3 | 4572.4 | 4100.2 | 3345.3 | 3471.4 |
| 67.5° | 4391.3 | 4340.3 | 4281.3 | 4346.3 | 4889.1 | 4919.6 | 4989.2 | 4178.7 | 3187.7 | 3053.1 |
| 70° | 4848.1 | 4829.1 | 4899.6 | 5167.3 | 5867.1 | 5868.1 | 5523.4 | 4113.7 | 2756.0 | 2164.7 |
| 72.5° | 4787.6 | 4776.0 | 5147.7 | 5975.2 | 7099.8 | 7073.3 | 6029.2 | 3621.4 | 1856.5 | 976.5 |
| 75° | 3927.6 | 4002.1 | 4577.9 | 5960.7 | 7542.5 | 7539.0 | 5719.6 | 2302.2 | 767.9 | 404.7 |
| 77.5° | 2106.1 | 2224.2 | 2972.1 | 4400.8 | 5888.1 | 5976.7 | 4021.1 | 805.4 | 329.7 | 259.1 |
| 80° | 686.9 | 789.9 | 1184.6 | 2240.7 | 3826.0 | 3809.5 | 1723.4 | 316.2 | 225.6 | 183.6 |
| 82.5° | 291.7 | 303.7 | 529.3 | 1058.1 | 1963.5 | 1933.0 | 548.8 | 181.6 | 158.6 | 125.6 |
| 85° | 114.1 | 127.6 | 233.6 | 489.3 | 850.5 | 831.9 | 198.1 | 90.0 | 101.6 | 82.0 |
| 87.5° | 37.5 | 45.5 | 83.5 | 167.6 | 264.6 | 255.1 | 48.5 | 31.0 | 44.0 | 37.5 |
| 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° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1233.2 | 0° | 1233.2 | 1233.2 | 1233.2 | 1233.2 | 1233.2 | 1233.2 | 1233.2 | 1233.2 | 1233.2 | 1233.2 |
| 1236.7 | 2.5° | 1243.7 | 1251.7 | 1261.2 | 1275.2 | 1287.2 | 1297.2 | 1307.7 | 1314.2 | 1316.7 | 1324.2 |
| 1238.7 | 5° | 1252.7 | 1270.2 | 1293.7 | 1316.7 | 1339.2 | 1352.7 | 1364.7 | 1370.7 | 1376.2 | 1380.2 |
| 1244.2 | 7.5° | 1267.7 | 1290.2 | 1327.2 | 1357.2 | 1376.2 | 1387.2 | 1395.2 | 1393.2 | 1395.2 | 1396.2 |
| 1250.2 | 10° | 1280.7 | 1312.2 | 1356.2 | 1384.7 | 1399.2 | 1399.7 | 1397.7 | 1390.7 | 1387.2 | 1387.7 |
| 1259.2 | 12.5° | 1296.2 | 1331.2 | 1378.7 | 1402.7 | 1406.8 | 1395.7 | 1387.2 | 1375.2 | 1370.7 | 1368.7 |
| 1272.7 | 15° | 1317.2 | 1357.2 | 1403.2 | 1412.3 | 1402.2 | 1388.2 | 1373.7 | 1354.2 | 1344.2 | 1336.2 |
| 1295.7 | 17.5° | 1342.7 | 1386.7 | 1422.3 | 1415.8 | 1394.2 | 1371.2 | 1347.7 | 1318.2 | 1297.7 | 1289.2 |
| 1327.2 | 20° | 1378.2 | 1417.8 | 1436.8 | 1408.3 | 1375.7 | 1340.7 | 1300.7 | 1264.7 | 1245.7 | 1237.2 |
| 1367.2 | 22.5° | 1421.3 | 1459.3 | 1450.8 | 1395.2 | 1349.2 | 1293.2 | 1243.2 | 1216.6 | 1207.1 | 1201.1 |
| 1418.8 | 25° | 1472.8 | 1505.3 | 1460.8 | 1376.2 | 1305.7 | 1230.2 | 1191.6 | 1183.1 | 1178.6 | 1174.1 |
| 1481.8 | 27.5° | 1539.8 | 1557.3 | 1468.3 | 1348.2 | 1237.7 | 1163.1 | 1149.1 | 1150.6 | 1149.1 | 1141.6 |
| 1569.3 | 30° | 1628.4 | 1624.9 | 1475.3 | 1302.7 | 1159.6 | 1102.6 | 1103.6 | 1110.1 | 1111.1 | 1106.1 |
| 1691.4 | 32.5° | 1744.9 | 1709.4 | 1478.8 | 1243.7 | 1085.1 | 1049.6 | 1050.6 | 1057.6 | 1062.6 | 1054.1 |
| 1851.0 | 35° | 1886.0 | 1808.0 | 1473.3 | 1169.6 | 1027.5 | 999.0 | 991.5 | 993.5 | 995.0 | 987.0 |
| 2044.6 | 37.5° | 2050.6 | 1918.5 | 1448.8 | 1087.6 | 980.0 | 949.5 | 933.5 | 920.0 | 912.0 | 904.5 |
| 2263.7 | 40° | 2231.2 | 2039.1 | 1403.7 | 1007.5 | 927.0 | 897.0 | 873.0 | 847.5 | 820.4 | 810.4 |
| 2495.8 | 42.5° | 2420.3 | 2163.2 | 1349.2 | 931.0 | 866.0 | 841.4 | 815.9 | 778.9 | 738.4 | 717.9 |
| 2737.0 | 45° | 2616.4 | 2290.2 | 1295.7 | 855.5 | 803.4 | 792.9 | 763.4 | 718.9 | 674.9 | 648.8 |
| 2978.6 | 47.5° | 2808.5 | 2410.3 | 1217.1 | 779.4 | 744.9 | 756.4 | 733.4 | 692.4 | 643.3 | 602.3 |
| 3218.2 | 50° | 2992.1 | 2522.8 | 1088.6 | 702.4 | 697.4 | 745.4 | 723.4 | 664.4 | 608.3 | 555.8 |
| 3453.3 | 52.5° | 3174.2 | 2613.9 | 924.0 | 632.3 | 671.9 | 742.4 | 710.4 | 645.3 | 576.8 | 521.8 |
| 3674.5 | 55° | 3328.8 | 2660.9 | 765.4 | 572.3 | 634.8 | 716.9 | 694.9 | 622.8 | 532.3 | 473.8 |
| 3826.0 | 57.5° | 3416.8 | 2622.9 | 633.3 | 513.3 | 583.8 | 674.9 | 668.4 | 574.8 | 479.3 | 434.2 |
| 3855.6 | 60° | 3378.8 | 2468.8 | 525.3 | 461.7 | 535.3 | 629.3 | 622.3 | 527.3 | 438.7 | 396.2 |
| 3697.5 | 62.5° | 3169.2 | 2175.2 | 439.7 | 416.7 | 491.3 | 582.8 | 576.3 | 490.8 | 407.7 | 366.7 |
| 3277.7 | 65° | 2747.0 | 1769.4 | 373.2 | 379.2 | 446.7 | 526.8 | 536.3 | 460.2 | 383.2 | 343.2 |
| 2535.9 | 67.5° | 2095.1 | 1281.7 | 321.2 | 346.7 | 403.2 | 471.8 | 499.3 | 438.2 | 362.7 | 324.7 |
| 1467.3 | 70° | 1194.1 | 727.9 | 277.1 | 315.2 | 364.7 | 420.7 | 470.8 | 420.7 | 340.7 | 309.2 |
| 549.8 | 72.5° | 452.7 | 334.2 | 239.6 | 283.7 | 327.7 | 377.7 | 439.2 | 393.2 | 315.2 | 291.7 |
| 284.2 | 75° | 241.6 | 203.6 | 201.6 | 246.6 | 285.2 | 335.7 | 399.7 | 366.2 | 296.2 | 308.2 |
| 196.6 | 77.5° | 164.6 | 144.1 | 168.6 | 211.1 | 238.6 | 289.2 | 357.7 | 325.2 | 256.6 | 255.6 |
| 136.1 | 80° | 114.1 | 102.1 | 137.1 | 170.1 | 184.6 | 243.1 | 312.2 | 279.1 | 209.1 | 195.1 |
| 84.0 | 82.5° | 68.5 | 66.5 | 102.6 | 127.1 | 130.6 | 187.6 | 258.6 | 234.1 | 171.1 | 149.1 |
| 50.0 | 85° | 37.5 | 39.5 | 65.5 | 74.5 | 76.0 | 131.1 | 202.6 | 181.1 | 131.6 | 110.6 |
| 18.0 | 87.5° | 10.5 | 13.5 | 24.0 | 29.5 | 36.5 | 68.0 | 120.6 | 107.6 | 66.0 | 46.0 |
| 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> |
|--------------|
| 1233.2 |
| 1323.7 |
| 1381.2 |
| 1397.7 |
| 1388.7 |
| 1367.7 |
| 1338.7 |
| 1289.7 |
| 1236.2 |
| 1202.1 |
| 1174.1 |
| 1143.1 |
| 1108.6 |
| 1058.1 |
| 992.5 |
| 909.5 |
| 814.9 |
| 720.4 |
| 646.8 |
| 597.8 |
| 551.3 |
| 515.8 |
| 468.8 |
| 428.2 |
| 390.2 |
| 360.2 |
| 336.7 |
| 318.7 |
| 305.2 |
| 287.7 |
| <i>318.2</i> |
| 235.6 |
| 186.6 |
| 150.1 |
| 111.6 |
| 46.0 |
| 0.0 |

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