

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: P939449

Luminaire Tested: **GALN-SB2A-750-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939449
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-SB2A-750-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9380 lumens
Efficiency: N/A
Efficacy: 163.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

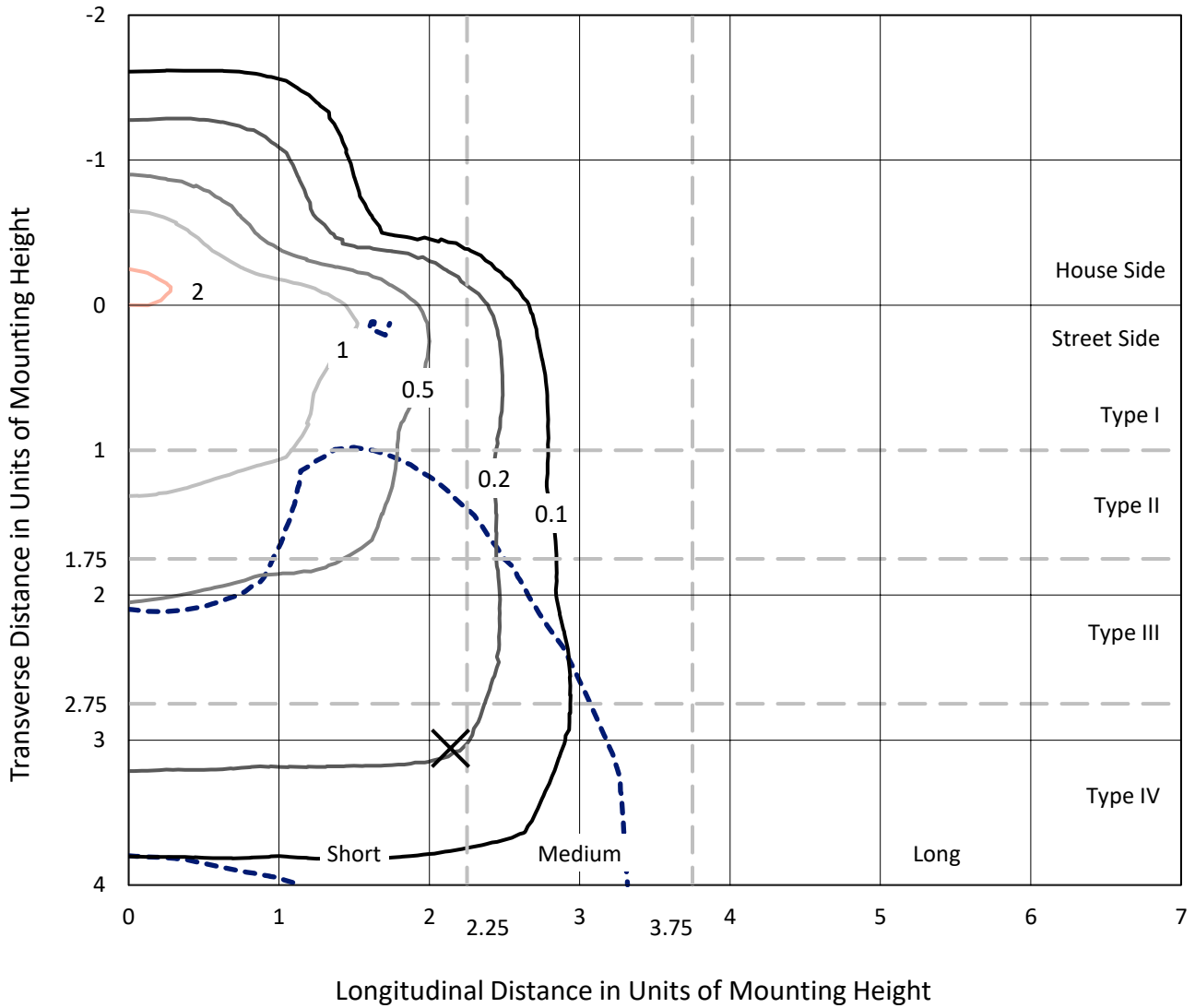
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

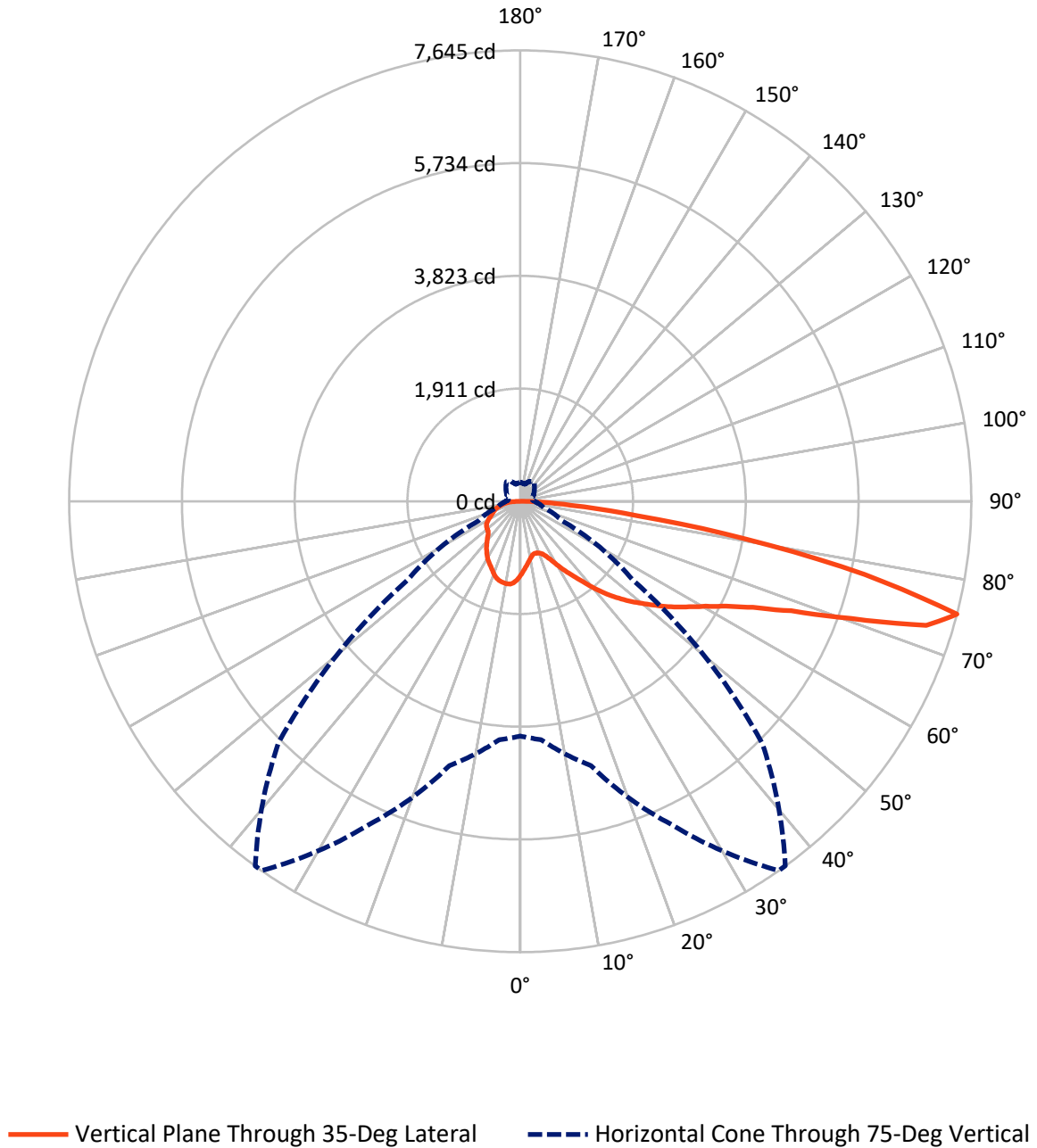
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2232.2 | 0.0 | 2232.2 |
| | % Fixture | 23.8 | 0.0 | 23.8 |
| Street Side | Lumens | 7147.8 | 0.0 | 7147.8 |
| | % Fixture | 76.2 | 0.0 | 76.2 |
| Total | Lumens | 9380.0 | 0.0 | 9380.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 118.3 | 1.3 |
| 10°-20° | 341.4 | 3.6 |
| 20°-30° | 573.2 | 6.1 |
| 30°-40° | 890.9 | 9.5 |
| 40°-50° | 1322.3 | 14.1 |
| 50°-60° | 1825.5 | 19.5 |
| 60°-70° | 2214.8 | 23.6 |
| 70°-80° | 1830.3 | 19.5 |
| 80°-90° | 263.3 | 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° | 9380.0 | 100.0 |
| 0°-180° | 9380.0 | 100.0 |

Coefficient of Utilization



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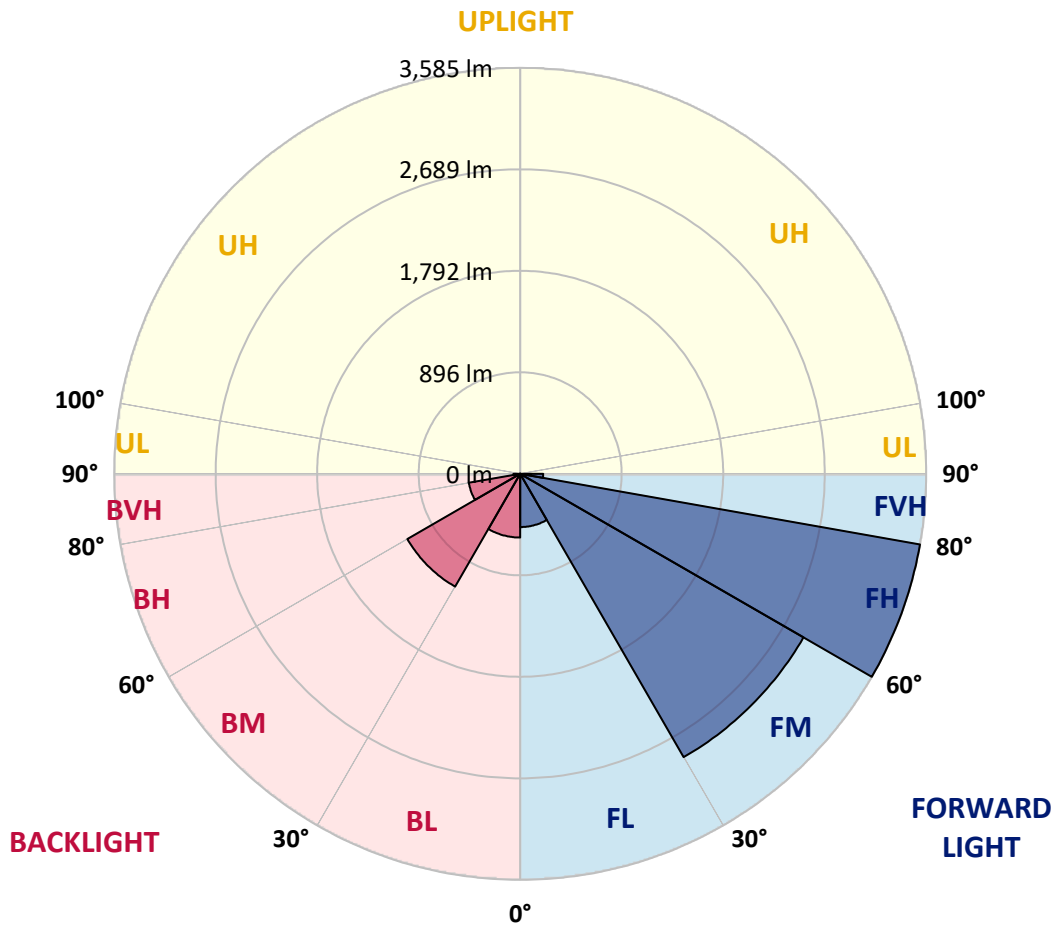
CATALOG NUMBER: GALN-SB2A-750-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 470.4 | 5.0 | | | |
| FM (30°-60°) | 2888.5 | 30.8 | | | |
| FH (60°-80°) | 3584.9 | 38.2 | | | G2/5000 |
| FVH (80°-90°) | 204.0 | 2.2 | | | G2/225 |
| BL (0°-30°) | 562.5 | 6.0 | B2/1000 | | |
| BM (30°-60°) | 1150.2 | 12.3 | B2/2500 | | |
| BH (60°-80°) | 460.2 | 4.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 59.3 | 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° | 1249.9 | 1249.9 | 1249.9 | 1249.9 | 1249.9 | 1249.9 | 1249.9 | 1249.9 | 1249.9 | 1249.9 |
| 2.5° | 1152.6 | 1159.7 | 1162.7 | 1161.2 | 1168.8 | 1167.8 | 1178.5 | 1191.6 | 1209.9 | 1227.6 |
| 5° | 1063.9 | 1071.5 | 1078.0 | 1084.1 | 1098.8 | 1103.4 | 1120.1 | 1145.5 | 1179.0 | 1212.9 |
| 7.5° | 981.2 | 987.8 | 997.9 | 1009.1 | 1033.9 | 1038.5 | 1066.4 | 1105.9 | 1152.6 | 1202.3 |
| 10° | 913.8 | 920.3 | 931.0 | 943.7 | 974.6 | 980.2 | 1015.7 | 1068.4 | 1129.3 | 1192.1 |
| 12.5° | 884.9 | 886.9 | 893.0 | 905.6 | 932.5 | 936.1 | 975.1 | 1035.5 | 1106.4 | 1184.5 |
| 15° | 883.3 | 887.4 | 887.9 | 894.5 | 916.8 | 918.3 | 954.3 | 1014.2 | 1092.2 | 1183.0 |
| 17.5° | 898.5 | 901.6 | 897.0 | 901.1 | 919.8 | 922.4 | 950.8 | 1004.0 | 1087.7 | 1189.6 |
| 20° | 939.1 | 941.6 | 928.0 | 922.4 | 936.1 | 938.1 | 966.0 | 1010.6 | 1092.2 | 1203.3 |
| 22.5° | 1025.3 | 1026.8 | 993.4 | 970.5 | 971.6 | 972.6 | 996.9 | 1037.5 | 1110.0 | 1228.1 |
| 25° | 1159.7 | 1158.7 | 1105.4 | 1061.3 | 1036.0 | 1030.4 | 1046.6 | 1081.1 | 1139.9 | 1261.1 |
| 27.5° | 1316.9 | 1309.3 | 1256.0 | 1190.1 | 1134.8 | 1126.7 | 1123.2 | 1137.9 | 1182.5 | 1304.7 |
| 30° | 1494.4 | 1487.3 | 1430.0 | 1343.8 | 1267.2 | 1254.0 | 1220.5 | 1212.9 | 1245.9 | 1364.0 |
| 32.5° | 1689.1 | 1684.5 | 1616.1 | 1511.6 | 1409.2 | 1394.0 | 1337.7 | 1317.4 | 1343.3 | 1453.8 |
| 35° | 1852.4 | 1848.3 | 1791.5 | 1684.0 | 1558.8 | 1540.0 | 1482.7 | 1459.9 | 1473.1 | 1568.9 |
| 37.5° | 1999.9 | 1997.9 | 1949.2 | 1864.5 | 1735.2 | 1712.4 | 1648.0 | 1640.4 | 1637.9 | 1720.5 |
| 40° | 2136.8 | 2131.8 | 2081.1 | 2036.4 | 1940.6 | 1919.8 | 1863.0 | 1856.4 | 1837.1 | 1907.1 |
| 42.5° | 2288.4 | 2275.3 | 2201.7 | 2180.9 | 2155.1 | 2137.8 | 2103.9 | 2104.9 | 2062.3 | 2117.6 |
| 45° | 2412.2 | 2404.6 | 2329.0 | 2316.8 | 2344.7 | 2337.6 | 2367.0 | 2374.6 | 2292.0 | 2338.1 |
| 47.5° | 2545.0 | 2537.9 | 2474.0 | 2465.4 | 2541.0 | 2543.0 | 2646.9 | 2649.5 | 2516.1 | 2567.3 |
| 50° | 2708.8 | 2698.7 | 2635.3 | 2645.9 | 2730.6 | 2738.2 | 2928.4 | 2911.1 | 2722.5 | 2800.1 |
| 52.5° | 2816.8 | 2822.9 | 2809.2 | 2826.5 | 2942.1 | 2949.2 | 3205.2 | 3161.1 | 2926.9 | 3029.8 |
| 55° | 2896.4 | 2908.6 | 2951.2 | 2990.7 | 3165.2 | 3172.3 | 3466.4 | 3398.9 | 3096.2 | 3242.8 |
| 57.5° | 2998.9 | 2981.6 | 3061.2 | 3138.3 | 3377.1 | 3395.9 | 3720.4 | 3628.1 | 3246.3 | 3426.3 |
| 60° | 3145.9 | 3133.7 | 3195.6 | 3309.7 | 3614.5 | 3644.4 | 3989.2 | 3834.5 | 3356.4 | 3571.9 |
| 62.5° | 3444.1 | 3413.7 | 3423.3 | 3524.2 | 3913.6 | 3953.2 | 4292.4 | 4014.5 | 3411.1 | 3628.7 |
| 65° | 3889.8 | 3837.6 | 3788.9 | 3858.9 | 4335.0 | 4374.1 | 4634.7 | 4156.0 | 3390.8 | 3518.6 |
| 67.5° | 4451.1 | 4399.4 | 4339.6 | 4405.5 | 4955.7 | 4986.6 | 5057.1 | 4235.6 | 3231.1 | 3094.7 |
| 70° | 4914.1 | 4894.8 | 4966.3 | 5237.6 | 5947.0 | 5948.0 | 5598.7 | 4169.7 | 2793.5 | 2194.1 |
| 72.5° | 4852.7 | 4841.1 | 5217.8 | 6056.5 | 7196.5 | 7169.6 | 6111.3 | 3670.7 | 1881.8 | 989.8 |
| 75° | 3981.1 | 4056.6 | 4640.3 | 6041.8 | 7645.2 | 7641.7 | 5797.4 | 2333.6 | 778.4 | 410.2 |
| 77.5° | 2134.8 | 2254.5 | 3012.6 | 4460.8 | 5968.3 | 6058.1 | 4075.9 | 816.4 | 334.2 | 262.7 |
| 80° | 696.2 | 800.7 | 1200.8 | 2271.2 | 3878.1 | 3861.4 | 1746.9 | 320.5 | 228.7 | 186.1 |
| 82.5° | 295.6 | 307.8 | 536.5 | 1072.5 | 1990.3 | 1959.4 | 556.3 | 184.1 | 160.7 | 127.3 |
| 85° | 115.6 | 129.3 | 236.8 | 495.9 | 862.0 | 843.3 | 200.8 | 91.3 | 102.9 | 83.2 |
| 87.5° | 38.0 | 46.1 | 84.7 | 169.9 | 268.2 | 258.6 | 49.2 | 31.4 | 44.6 | 38.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P939449
 CATALOG NUMBER: GALN-SB2A-750-U-T4FT

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1249.9 | 0° | 1249.9 | 1249.9 | 1249.9 | 1249.9 | 1249.9 | 1249.9 | 1249.9 | 1249.9 | 1249.9 | 1249.9 |
| 1253.5 | 2.5° | 1260.6 | 1268.7 | 1278.3 | 1292.5 | 1304.7 | 1314.9 | 1325.5 | 1332.1 | 1334.6 | 1342.2 |
| 1255.5 | 5° | 1269.7 | 1287.5 | 1311.3 | 1334.6 | 1357.4 | 1371.1 | 1383.3 | 1389.4 | 1395.0 | 1399.0 |
| 1261.1 | 7.5° | 1284.9 | 1307.8 | 1345.3 | 1375.7 | 1395.0 | 1406.1 | 1414.2 | 1412.2 | 1414.2 | 1415.3 |
| 1267.2 | 10° | 1298.1 | 1330.1 | 1374.7 | 1403.6 | 1418.3 | 1418.8 | 1416.8 | 1409.7 | 1406.1 | 1406.6 |
| 1276.3 | 12.5° | 1313.8 | 1349.3 | 1397.5 | 1421.8 | 1425.9 | 1414.7 | 1406.1 | 1394.0 | 1389.4 | 1387.4 |
| 1290.0 | 15° | 1335.1 | 1375.7 | 1422.4 | 1431.5 | 1421.3 | 1407.1 | 1392.4 | 1372.7 | 1362.5 | 1354.4 |
| 1313.3 | 17.5° | 1361.0 | 1405.6 | 1441.6 | 1435.0 | 1413.2 | 1389.9 | 1366.1 | 1336.2 | 1315.4 | 1306.7 |
| 1345.3 | 20° | 1397.0 | 1437.1 | 1456.3 | 1427.4 | 1394.5 | 1359.0 | 1318.4 | 1281.9 | 1262.6 | 1254.0 |
| 1385.8 | 22.5° | 1440.6 | 1479.1 | 1470.5 | 1414.2 | 1367.6 | 1310.8 | 1260.1 | 1233.2 | 1223.6 | 1217.5 |
| 1438.1 | 25° | 1492.8 | 1525.8 | 1480.7 | 1395.0 | 1323.5 | 1246.9 | 1207.9 | 1199.2 | 1194.7 | 1190.1 |
| 1502.0 | 27.5° | 1560.8 | 1578.5 | 1488.3 | 1366.6 | 1254.5 | 1179.0 | 1164.8 | 1166.3 | 1164.8 | 1157.2 |
| 1590.7 | 30° | 1650.5 | 1647.0 | 1495.4 | 1320.4 | 1175.4 | 1117.6 | 1118.6 | 1125.2 | 1126.2 | 1121.2 |
| 1714.4 | 32.5° | 1768.7 | 1732.7 | 1498.9 | 1260.6 | 1099.9 | 1063.9 | 1064.9 | 1072.0 | 1077.0 | 1068.4 |
| 1876.2 | 35° | 1911.7 | 1832.6 | 1493.3 | 1185.5 | 1041.5 | 1012.6 | 1005.0 | 1007.1 | 1008.6 | 1000.5 |
| 2072.4 | 37.5° | 2078.5 | 1944.6 | 1468.5 | 1102.4 | 993.4 | 962.4 | 946.2 | 932.5 | 924.4 | 916.8 |
| 2294.5 | 40° | 2261.6 | 2066.9 | 1422.9 | 1021.3 | 939.6 | 909.2 | 884.9 | 859.0 | 831.6 | 821.5 |
| 2529.8 | 42.5° | 2453.2 | 2192.6 | 1367.6 | 943.7 | 877.8 | 852.9 | 827.0 | 789.5 | 748.4 | 727.7 |
| 2774.2 | 45° | 2652.0 | 2321.4 | 1313.3 | 867.1 | 814.4 | 803.7 | 773.8 | 728.7 | 684.0 | 657.7 |
| 3019.1 | 47.5° | 2846.7 | 2443.1 | 1233.7 | 790.0 | 755.0 | 766.7 | 743.4 | 701.8 | 652.1 | 610.5 |
| 3262.0 | 50° | 3032.8 | 2557.2 | 1103.4 | 711.9 | 706.9 | 755.5 | 733.2 | 673.4 | 616.6 | 563.4 |
| 3500.4 | 52.5° | 3217.4 | 2649.5 | 936.6 | 640.9 | 681.0 | 752.5 | 720.1 | 654.1 | 584.7 | 528.9 |
| 3724.5 | 55° | 3374.1 | 2697.2 | 775.8 | 580.1 | 643.5 | 726.6 | 704.3 | 631.3 | 539.5 | 480.2 |
| 3878.1 | 57.5° | 3463.3 | 2658.6 | 642.0 | 520.3 | 591.8 | 684.0 | 677.5 | 582.6 | 485.8 | 440.1 |
| 3908.1 | 60° | 3424.8 | 2502.4 | 532.4 | 468.0 | 542.6 | 637.9 | 630.8 | 534.5 | 444.7 | 401.6 |
| 3747.8 | 62.5° | 3212.3 | 2204.8 | 445.7 | 422.4 | 498.0 | 590.7 | 584.2 | 497.4 | 413.3 | 371.7 |
| 3322.4 | 65° | 2784.4 | 1793.5 | 378.3 | 384.4 | 452.8 | 534.0 | 543.6 | 466.5 | 388.4 | 347.9 |
| 2570.4 | 67.5° | 2123.6 | 1299.1 | 325.5 | 351.4 | 408.7 | 478.2 | 506.1 | 444.2 | 367.6 | 329.1 |
| 1487.3 | 70° | 1210.4 | 737.8 | 280.9 | 319.5 | 369.7 | 426.5 | 477.2 | 426.5 | 345.3 | 313.4 |
| 557.3 | 72.5° | 458.9 | 338.7 | 242.9 | 287.5 | 332.1 | 382.8 | 445.2 | 398.6 | 319.5 | 295.6 |
| 288.0 | 75° | 244.9 | 206.4 | 204.4 | 250.0 | 289.0 | 340.2 | 405.2 | 371.2 | 300.2 | 312.4 |
| 199.3 | 77.5° | 166.8 | 146.0 | 170.9 | 214.0 | 241.9 | 293.1 | 362.6 | 329.6 | 260.1 | 259.1 |
| 137.9 | 80° | 115.6 | 103.4 | 138.9 | 172.4 | 187.1 | 246.4 | 316.4 | 282.9 | 212.0 | 197.8 |
| 85.2 | 82.5° | 69.5 | 67.4 | 104.0 | 128.8 | 132.3 | 190.2 | 262.2 | 237.3 | 173.4 | 151.1 |
| 50.7 | 85° | 38.0 | 40.1 | 66.4 | 75.6 | 77.1 | 132.9 | 205.4 | 183.6 | 133.4 | 112.1 |
| 18.3 | 87.5° | 10.6 | 13.7 | 24.3 | 29.9 | 37.0 | 69.0 | 122.2 | 109.0 | 66.9 | 46.7 |
| 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> |
|-------------|
| 1249.9 |
| 1341.7 |
| 1400.0 |
| 1416.8 |
| 1407.6 |
| 1386.4 |
| 1356.9 |
| 1307.2 |
| 1253.0 |
| 1218.5 |
| 1190.1 |
| 1158.7 |
| 1123.7 |
| 1072.5 |
| 1006.0 |
| 921.9 |
| 826.0 |
| 730.2 |
| 655.7 |
| 606.0 |
| 558.8 |
| 522.8 |
| 475.1 |
| 434.1 |
| 395.5 |
| 365.1 |
| 341.3 |
| 323.0 |
| 309.3 |
| 291.6 |
| 322.5 |
| 238.8 |
| 189.1 |
| 152.1 |
| 113.1 |
| 46.7 |
| 0.0 |

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