

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: STREETWORKS

Report Number: P940872

Luminaire Tested: **GLAN-SB4A-927-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940872
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB4A-927-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10848 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

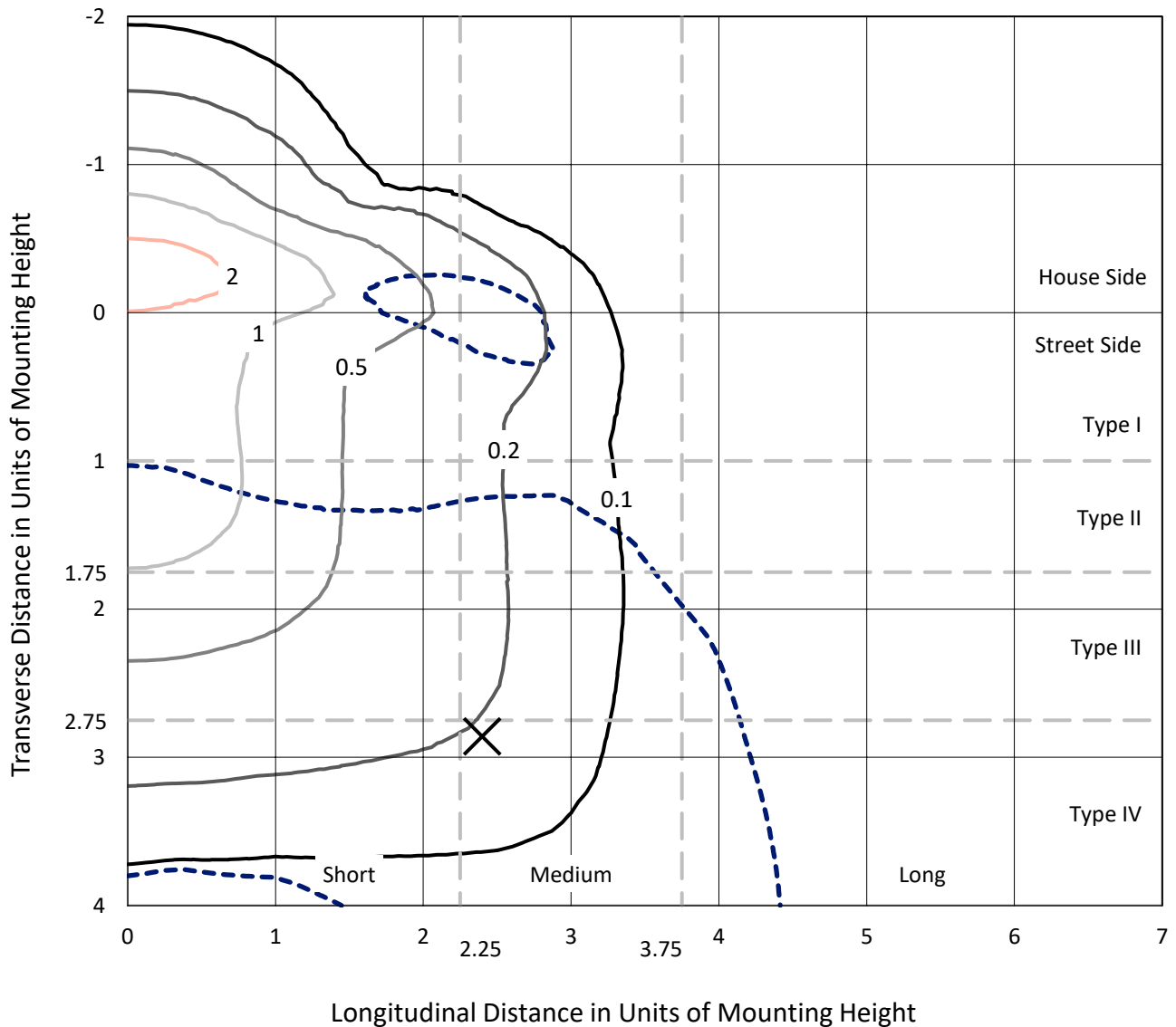
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

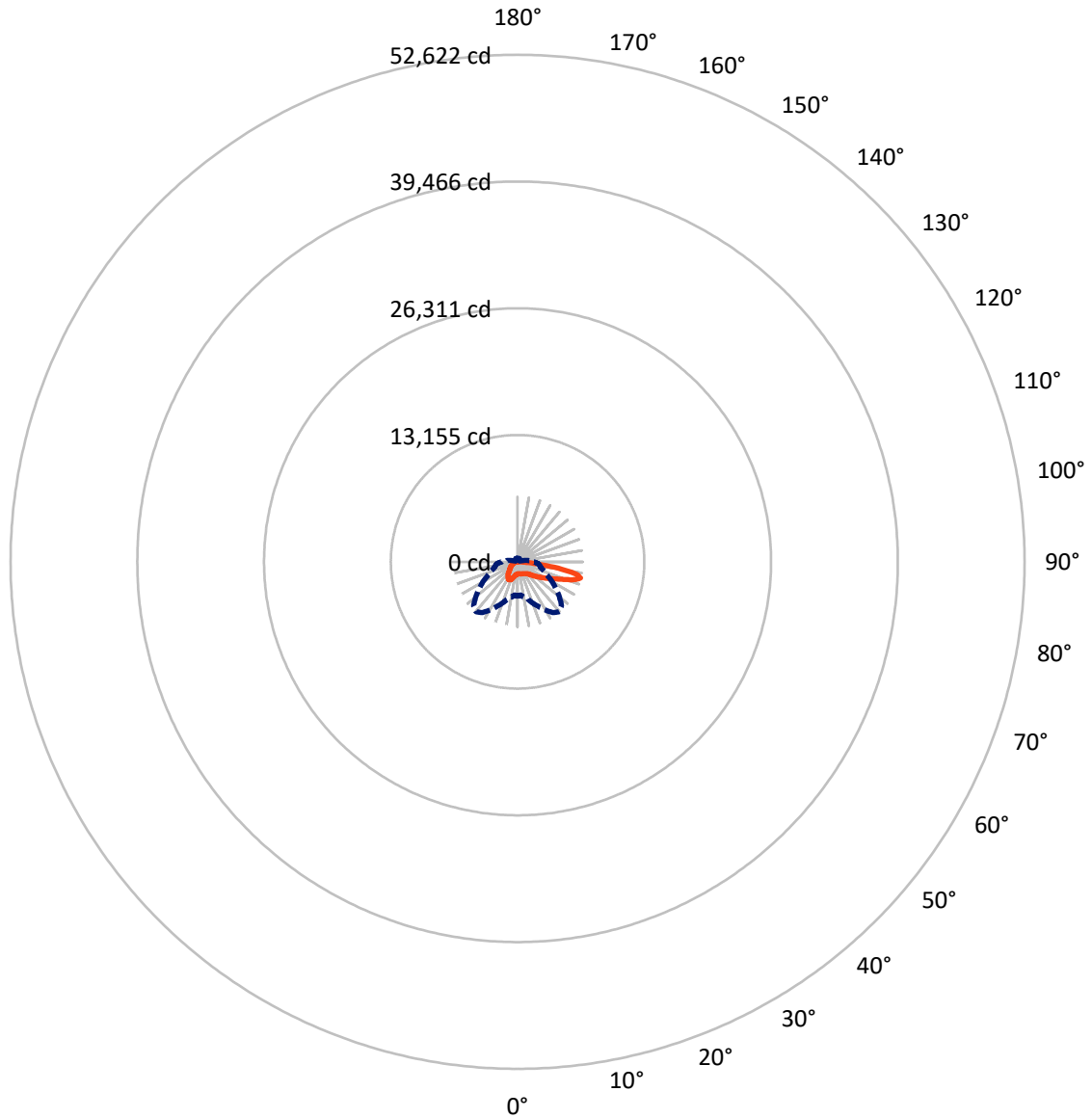
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3361.1 | 0.0 | 3361.1 |
| | % Fixture | 31.0 | 0.0 | 31.0 |
| Street Side | Lumens | 7486.9 | 0.0 | 7486.9 |
| | % Fixture | 69.0 | 0.0 | 69.0 |
| Total | Lumens | 10848.0 | 0.0 | 10848.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 123.8 | 1.1 |
| 10°-20° | 415.7 | 3.8 |
| 20°-30° | 759.1 | 7.0 |
| 30°-40° | 1076.6 | 9.9 |
| 40°-50° | 1453.7 | 13.4 |
| 50°-60° | 1955.7 | 18.0 |
| 60°-70° | 2482.2 | 22.9 |
| 70°-80° | 2252.7 | 20.8 |
| 80°-90° | 328.4 | 3.0 |
| 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° | 10848.0 | 100.0 |
| 0°-180° | 10848.0 | 100.0 |

Coefficient of Utilization

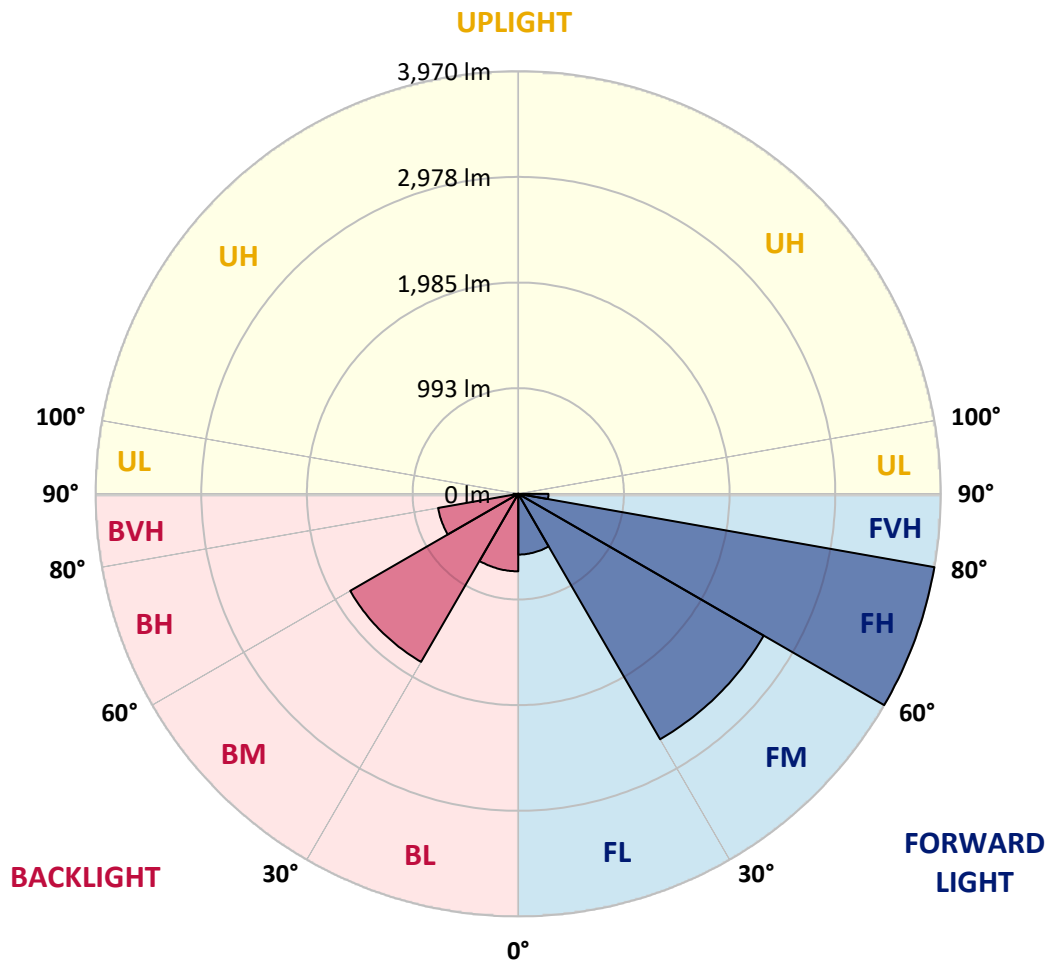


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 570.6 | 5.3 | | | |
| FM (30°-60°) | 2662.9 | 24.5 | | | |
| FH (60°-80°) | 3970.2 | 36.6 | | | G2/5000 |
| FVH (80°-90°) | 283.2 | 2.6 | | | G3/500 |
| BL (0°-30°) | 728.0 | 6.7 | B2/1000 | | |
| BM (30°-60°) | 1823.1 | 16.8 | B2/2500 | | |
| BH (60°-80°) | 764.7 | 7.0 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 45.2 | 0.4 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3
 Type IV Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 40° | 45° | 55° | 65° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1240.5 | 1240.5 | 1240.5 | 1240.5 | 1240.5 | 1240.5 | 1240.5 | 1240.5 | 1240.5 | 1240.5 |
| 2.5° | 1221.5 | 1228.4 | 1226.7 | 1224.4 | 1224.4 | 1224.4 | 1224.4 | 1228.4 | 1232.4 | 1236.5 |
| 5° | 1234.2 | 1241.1 | 1237.6 | 1234.7 | 1232.4 | 1231.9 | 1230.1 | 1229.6 | 1231.9 | 1237.0 |
| 7.5° | 1258.9 | 1265.8 | 1260.6 | 1255.4 | 1250.8 | 1248.5 | 1246.2 | 1242.8 | 1241.1 | 1243.9 |
| 10° | 1286.5 | 1293.4 | 1287.1 | 1277.9 | 1270.4 | 1267.5 | 1265.2 | 1261.8 | 1259.5 | 1261.2 |
| 12.5° | 1314.1 | 1321.0 | 1312.4 | 1299.7 | 1290.0 | 1288.2 | 1285.4 | 1284.2 | 1283.6 | 1283.1 |
| 15° | 1340.0 | 1345.8 | 1334.8 | 1319.9 | 1309.5 | 1306.7 | 1303.8 | 1305.5 | 1308.4 | 1311.8 |
| 17.5° | 1360.2 | 1365.9 | 1349.8 | 1330.2 | 1320.5 | 1319.3 | 1317.6 | 1323.3 | 1331.4 | 1340.0 |
| 20° | 1378.6 | 1384.3 | 1363.6 | 1337.1 | 1325.6 | 1325.6 | 1326.2 | 1338.3 | 1349.8 | 1362.5 |
| 22.5° | 1404.5 | 1409.1 | 1383.7 | 1347.5 | 1330.8 | 1332.0 | 1336.6 | 1348.7 | 1363.0 | 1380.3 |
| 25° | 1443.0 | 1446.5 | 1415.4 | 1367.1 | 1348.1 | 1351.5 | 1355.6 | 1361.3 | 1375.1 | 1395.3 |
| 27.5° | 1505.2 | 1508.0 | 1467.2 | 1401.6 | 1372.8 | 1378.6 | 1384.3 | 1380.3 | 1386.6 | 1403.9 |
| 30° | 1592.6 | 1594.3 | 1542.5 | 1455.7 | 1414.8 | 1417.7 | 1418.8 | 1402.2 | 1390.1 | 1403.9 |
| 32.5° | 1696.2 | 1695.6 | 1634.0 | 1521.3 | 1462.6 | 1459.7 | 1449.9 | 1417.1 | 1388.9 | 1401.0 |
| 35° | 1856.7 | 1850.4 | 1771.0 | 1613.3 | 1516.7 | 1498.8 | 1475.8 | 1433.8 | 1394.7 | 1398.1 |
| 37.5° | 2122.5 | 2103.0 | 1993.1 | 1764.1 | 1597.2 | 1551.8 | 1517.8 | 1460.8 | 1407.3 | 1397.0 |
| 40° | 2422.3 | 2397.5 | 2276.7 | 1970.6 | 1718.0 | 1645.0 | 1590.3 | 1499.4 | 1428.1 | 1402.2 |
| 42.5° | 2777.9 | 2742.8 | 2612.7 | 2214.0 | 1871.1 | 1765.2 | 1682.9 | 1548.3 | 1458.5 | 1418.8 |
| 45° | 3214.6 | 3168.0 | 2983.8 | 2488.4 | 2063.8 | 1922.9 | 1813.0 | 1622.5 | 1505.2 | 1451.1 |
| 47.5° | 3655.9 | 3667.4 | 3405.6 | 2802.6 | 2295.1 | 2117.3 | 1975.8 | 1734.1 | 1573.0 | 1502.8 |
| 50° | 4124.8 | 4132.8 | 3825.0 | 3150.7 | 2557.5 | 2337.1 | 2158.8 | 1859.0 | 1667.4 | 1576.5 |
| 52.5° | 4490.7 | 4491.9 | 4205.9 | 3514.9 | 2830.8 | 2578.8 | 2356.1 | 2001.7 | 1776.7 | 1674.3 |
| 55° | 4719.7 | 4716.8 | 4472.9 | 3859.5 | 3144.9 | 2832.5 | 2574.8 | 2163.9 | 1910.2 | 1789.4 |
| 57.5° | 4886.0 | 4877.4 | 4657.0 | 4155.8 | 3479.8 | 3132.3 | 2822.2 | 2348.1 | 2067.9 | 1926.3 |
| 60° | 4949.3 | 4944.1 | 4781.8 | 4411.9 | 3831.9 | 3463.7 | 3107.5 | 2554.0 | 2246.8 | 2088.0 |
| 62.5° | 4973.4 | 4983.2 | 4904.4 | 4659.9 | 4208.8 | 3830.8 | 3421.1 | 2800.3 | 2448.2 | 2271.0 |
| 65° | 5058.6 | 5076.4 | 5060.3 | 4984.4 | 4634.6 | 4260.6 | 3837.1 | 3093.2 | 2668.0 | 2467.2 |
| 67.5° | 5227.2 | 5245.0 | 5251.9 | 5372.7 | 5154.7 | 4796.2 | 4356.1 | 3457.9 | 2925.1 | 2670.8 |
| 70° | 5223.1 | 5218.0 | 5339.9 | 5681.7 | 5806.0 | 5537.9 | 5055.7 | 3906.7 | 3231.8 | 2840.0 |
| 72.5° | 4754.2 | 4712.8 | 5001.1 | 5678.3 | 6348.0 | 6312.3 | 5910.1 | 4485.5 | 3496.5 | 2860.7 |
| 75° | 3566.7 | 3456.2 | 3965.4 | 5117.3 | 6438.3 | 6751.9 | 6453.3 | 4844.6 | 3433.8 | 2527.6 |
| 77.5° | 1525.3 | 1414.2 | 2014.3 | 3788.2 | 5762.3 | 6311.7 | 5955.0 | 4226.6 | 2741.0 | 1671.4 |
| 80° | 399.3 | 398.7 | 608.7 | 1717.5 | 3918.8 | 4661.0 | 4089.1 | 2729.5 | 1566.1 | 597.2 |
| 82.5° | 165.1 | 161.1 | 223.8 | 668.0 | 1914.8 | 2615.6 | 2134.6 | 1217.5 | 565.6 | 161.7 |
| 85° | 61.6 | 61.0 | 108.7 | 230.7 | 675.5 | 1078.8 | 780.8 | 311.3 | 141.0 | 78.8 |
| 87.5° | 17.3 | 16.7 | 23.6 | 80.0 | 164.6 | 249.7 | 133.5 | 51.2 | 39.7 | 31.1 |
| 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° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1240.5 | 0° | 1240.5 | 1240.5 | 1240.5 | 1240.5 | 1240.5 | 1240.5 | 1240.5 | 1240.5 | 1240.5 | 1240.5 |
| 1242.8 | 2.5° | 1244.5 | 1247.4 | 1252.6 | 1256.6 | 1261.8 | 1267.5 | 1275.6 | 1280.8 | 1285.9 | 1289.4 |
| 1245.7 | 5° | 1249.7 | 1256.0 | 1269.3 | 1282.5 | 1298.0 | 1312.4 | 1329.1 | 1341.2 | 1351.0 | 1353.8 |
| 1256.0 | 7.5° | 1261.2 | 1271.6 | 1294.0 | 1316.4 | 1341.2 | 1364.8 | 1388.9 | 1409.6 | 1426.3 | 1432.7 |
| 1274.4 | 10° | 1281.3 | 1295.1 | 1326.8 | 1358.4 | 1391.2 | 1427.5 | 1458.5 | 1488.5 | 1512.1 | 1521.8 |
| 1296.3 | 12.5° | 1306.7 | 1323.9 | 1365.3 | 1409.1 | 1454.5 | 1504.6 | 1544.9 | 1581.7 | 1611.0 | 1624.3 |
| 1326.8 | 15° | 1339.4 | 1361.9 | 1414.8 | 1473.5 | 1540.2 | 1609.9 | 1661.1 | 1701.9 | 1734.7 | 1750.8 |
| 1358.4 | 17.5° | 1375.1 | 1405.0 | 1471.8 | 1560.4 | 1655.9 | 1747.4 | 1807.2 | 1837.1 | 1871.1 | 1886.6 |
| 1387.8 | 20° | 1409.6 | 1446.5 | 1542.0 | 1670.9 | 1798.0 | 1895.2 | 1943.6 | 1951.6 | 1953.9 | 1955.7 |
| 1415.4 | 22.5° | 1445.3 | 1494.8 | 1630.0 | 1810.1 | 1946.5 | 2013.8 | 2020.7 | 1986.2 | 1937.8 | 1915.4 |
| 1442.4 | 25° | 1484.4 | 1550.0 | 1745.1 | 1963.7 | 2074.2 | 2082.2 | 2029.3 | 1945.3 | 1853.8 | 1811.8 |
| 1464.3 | 27.5° | 1522.4 | 1613.9 | 1883.2 | 2110.4 | 2166.2 | 2095.5 | 1981.6 | 1862.5 | 1752.0 | 1707.7 |
| 1479.8 | 30° | 1560.4 | 1687.0 | 2035.6 | 2238.7 | 2208.2 | 2062.7 | 1906.2 | 1773.3 | 1662.2 | 1615.6 |
| 1493.6 | 32.5° | 1598.9 | 1772.1 | 2211.1 | 2331.4 | 2200.8 | 1993.1 | 1812.4 | 1673.2 | 1575.3 | 1526.4 |
| 1505.7 | 35° | 1642.7 | 1876.8 | 2377.4 | 2382.0 | 2150.7 | 1890.6 | 1688.7 | 1553.5 | 1468.3 | 1429.2 |
| 1520.1 | 37.5° | 1699.6 | 2009.7 | 2524.1 | 2394.7 | 2063.3 | 1740.5 | 1535.1 | 1411.9 | 1341.7 | 1323.9 |
| 1541.4 | 40° | 1770.4 | 2169.7 | 2636.3 | 2374.5 | 1933.8 | 1558.1 | 1367.1 | 1268.7 | 1229.0 | 1233.0 |
| 1570.2 | 42.5° | 1862.5 | 2348.6 | 2715.1 | 2322.7 | 1753.7 | 1369.9 | 1219.8 | 1176.0 | 1195.0 | 1211.1 |
| 1613.3 | 45° | 1982.1 | 2534.5 | 2764.0 | 2234.7 | 1550.0 | 1210.6 | 1132.9 | 1143.2 | 1157.6 | 1159.4 |
| 1682.9 | 47.5° | 2135.2 | 2722.6 | 2796.3 | 2101.8 | 1342.3 | 1098.4 | 1077.7 | 1080.0 | 1077.1 | 1065.0 |
| 1787.1 | 50° | 2326.2 | 2905.6 | 2825.0 | 1925.7 | 1165.7 | 1028.2 | 1000.6 | 992.5 | 952.8 | 913.7 |
| 1925.7 | 52.5° | 2543.7 | 3073.6 | 2837.1 | 1707.1 | 1028.2 | 969.5 | 924.6 | 874.0 | 799.8 | 787.7 |
| 2100.1 | 55° | 2785.3 | 3228.9 | 2806.0 | 1438.4 | 912.5 | 894.1 | 826.2 | 765.2 | 757.2 | 746.8 |
| 2329.6 | 57.5° | 3074.2 | 3396.4 | 2742.8 | 1138.6 | 794.0 | 806.1 | 739.9 | 746.8 | 732.4 | 716.3 |
| 2624.8 | 60° | 3390.0 | 3569.6 | 2631.7 | 865.3 | 671.4 | 696.2 | 717.5 | 716.9 | 712.9 | 699.6 |
| 2936.1 | 62.5° | 3674.3 | 3683.5 | 2413.1 | 662.8 | 563.9 | 611.0 | 669.1 | 668.6 | 665.1 | 657.6 |
| 3261.2 | 65° | 3843.4 | 3666.2 | 2048.3 | 521.9 | 475.3 | 540.8 | 603.6 | 608.2 | 608.7 | 608.2 |
| 3505.7 | 67.5° | 3813.5 | 3464.3 | 1547.7 | 415.4 | 402.2 | 469.5 | 538.5 | 544.9 | 549.5 | 550.6 |
| 3536.8 | 70° | 3475.2 | 3020.7 | 1009.2 | 331.4 | 337.2 | 406.8 | 477.0 | 483.3 | 487.3 | 491.9 |
| 3069.0 | 72.5° | 2708.8 | 2220.9 | 577.7 | 268.1 | 280.2 | 352.7 | 416.0 | 423.5 | 425.8 | 434.4 |
| 2135.7 | 75° | 1650.7 | 1306.1 | 311.8 | 211.2 | 230.1 | 301.5 | 355.6 | 364.2 | 368.2 | 378.6 |
| 1048.9 | 77.5° | 784.8 | 565.6 | 177.8 | 164.6 | 185.3 | 246.3 | 300.3 | 310.1 | 299.2 | 304.9 |
| 289.4 | 80° | 265.2 | 210.0 | 112.2 | 125.4 | 141.5 | 192.2 | 240.5 | 250.3 | 227.3 | 226.1 |
| 96.1 | 82.5° | 92.6 | 85.2 | 71.3 | 83.4 | 91.5 | 137.5 | 181.8 | 194.5 | 169.2 | 168.6 |
| 43.2 | 85° | 36.2 | 34.5 | 39.7 | 45.5 | 54.7 | 84.6 | 119.7 | 126.0 | 104.1 | 84.0 |
| 12.7 | 87.5° | 7.5 | 8.1 | 9.8 | 10.4 | 16.7 | 29.3 | 43.2 | 52.9 | 42.0 | 35.7 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END O

| <u>180°</u> |
|-------------|
| 1240.5 |
| 1287.1 |
| 1355.0 |
| 1433.2 |
| 1522.4 |
| 1624.3 |
| 1749.7 |
| 1886.0 |
| 1960.3 |
| 1921.7 |
| 1818.1 |
| 1712.9 |
| 1620.8 |
| 1532.8 |
| 1437.8 |
| 1336.6 |
| 1246.8 |
| 1226.1 |
| 1170.9 |
| 1074.2 |
| 918.9 |
| 791.7 |
| 748.5 |
| 713.5 |
| 695.0 |
| 654.8 |
| 608.2 |
| 551.8 |
| 494.2 |
| 437.9 |
| 379.7 |
| 300.3 |
| 223.8 |
| 160.5 |
| 82.9 |
| 32.8 |
| 0.0 |

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