

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: P852481

Luminaire Tested: **GLAN-SB4A-927-U-T4FT**

Issue Date: 7/11/2024

Test Information

Test Method: LM-79-08
Report Number: P852481
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB4A-927-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11443 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

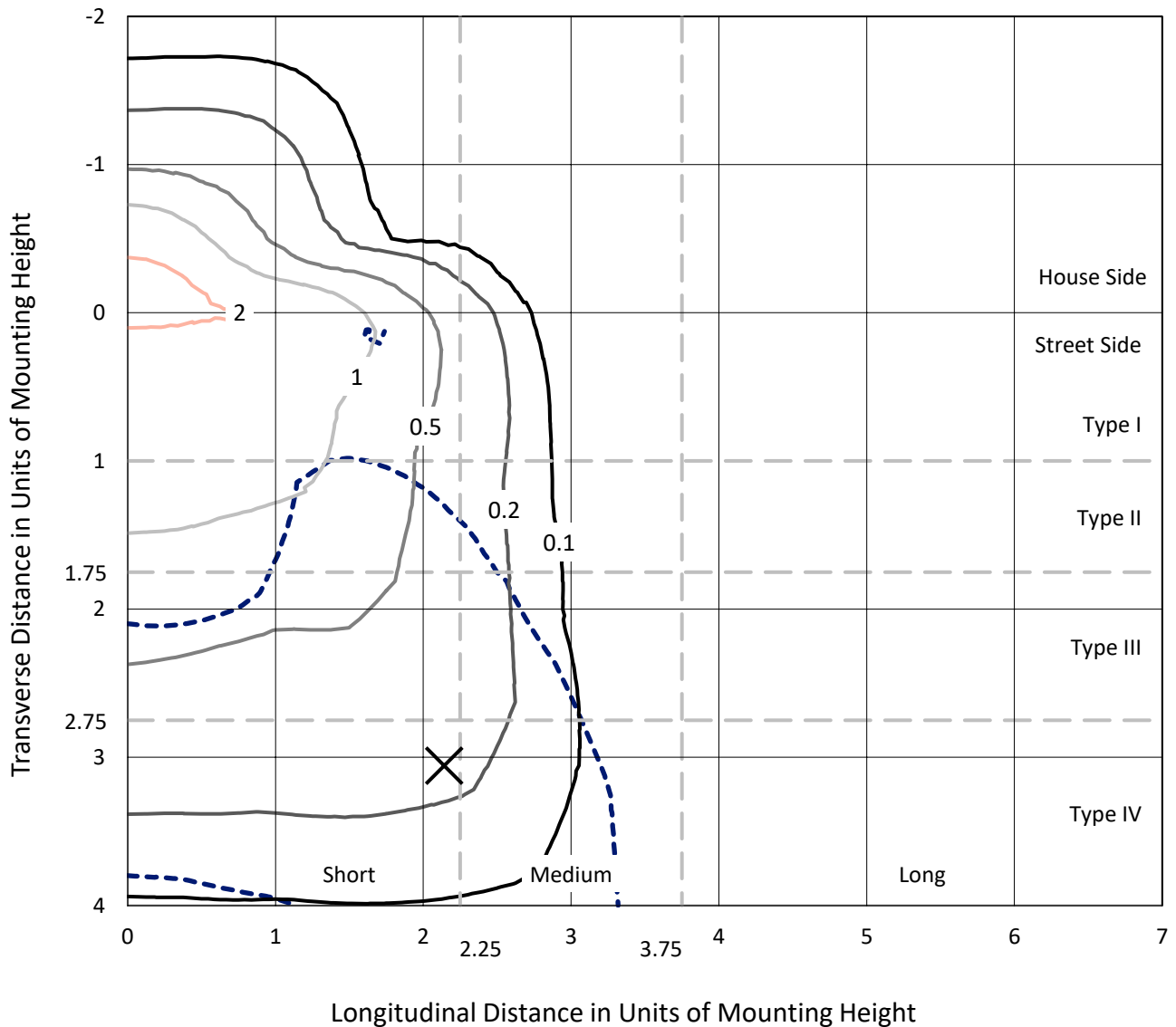
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

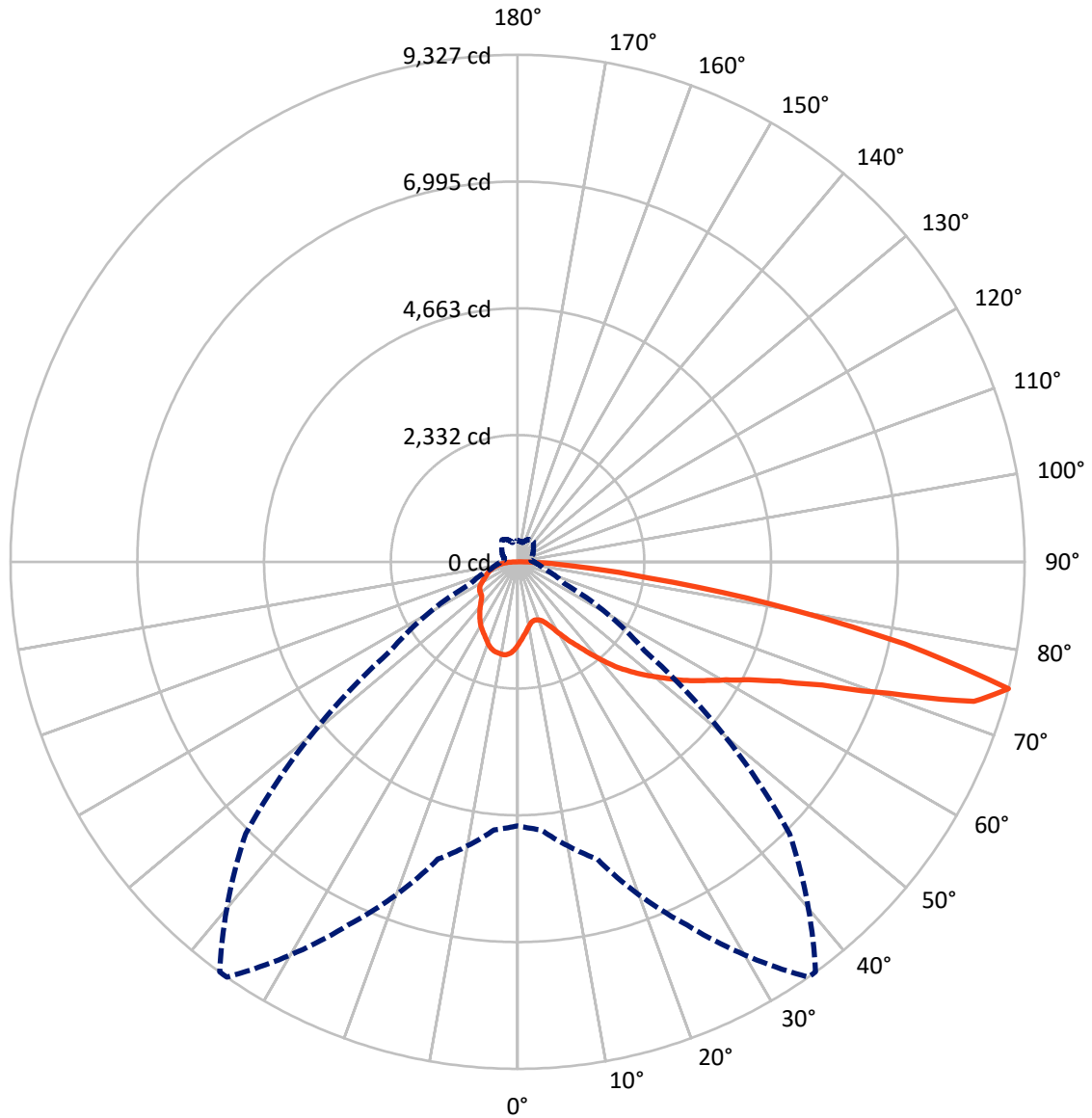
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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 | 2723.1 | 0.0 | 2723.1 |
| | % Fixture | 23.8 | 0.0 | 23.8 |
| Street Side | Lumens | 8719.9 | 0.0 | 8719.9 |
| | % Fixture | 76.2 | 0.0 | 76.2 |
| Total | Lumens | 11443.0 | 0.0 | 11443.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 144.4 | 1.3 |
| 10°-20° | 416.4 | 3.6 |
| 20°-30° | 699.3 | 6.1 |
| 30°-40° | 1086.8 | 9.5 |
| 40°-50° | 1613.1 | 14.1 |
| 50°-60° | 2227.0 | 19.5 |
| 60°-70° | 2701.9 | 23.6 |
| 70°-80° | 2232.9 | 19.5 |
| 80°-90° | 321.2 | 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° | 11443.0 | 100.0 |
| 0°-180° | 11443.0 | 100.0 |

Coefficient of Utilization



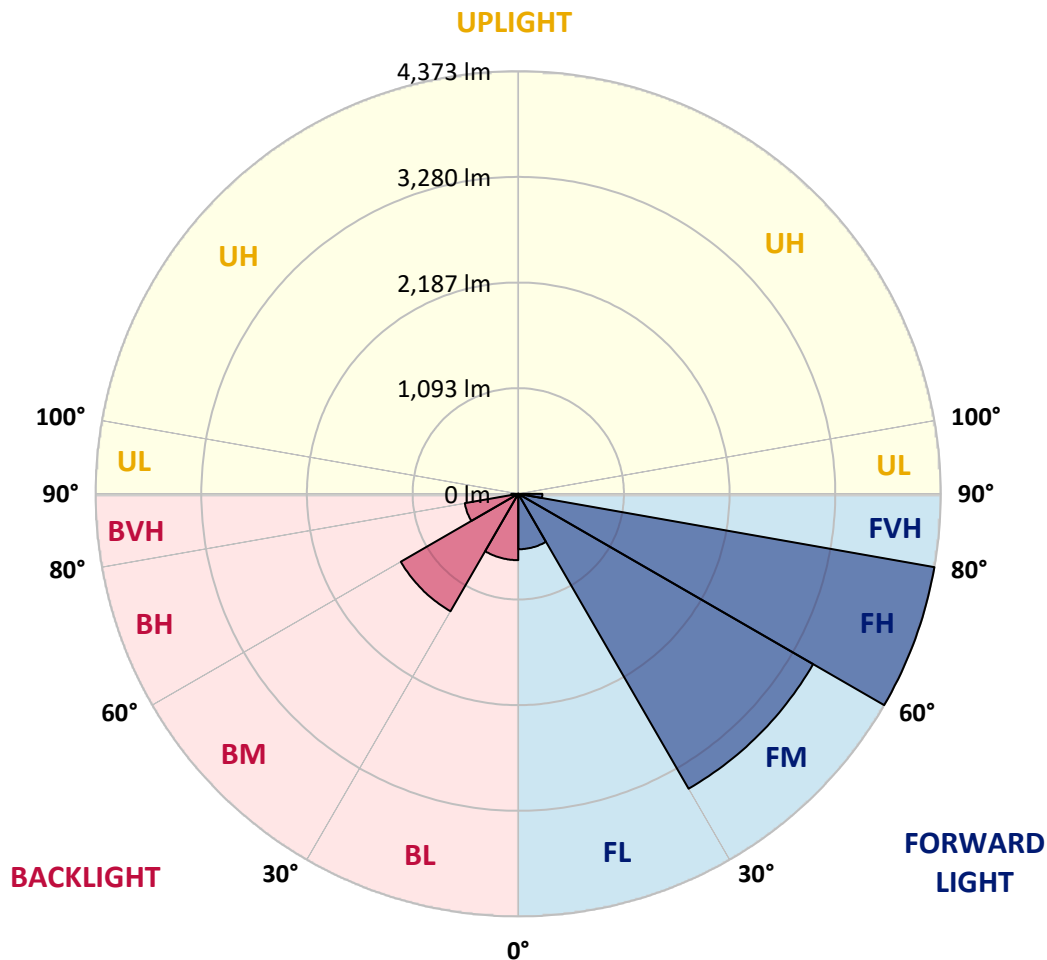
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 573.8 | 5.0 | | | |
| FM (30°-60°) | 3523.8 | 30.8 | | | |
| FH (60°-80°) | 4373.3 | 38.2 | | | G2/5000 |
| FVH (80°-90°) | 248.8 | 2.2 | | | G3/500 |
| BL (0°-30°) | 686.3 | 6.0 | B2/1000 | | |
| BM (30°-60°) | 1403.1 | 12.3 | B2/2500 | | |
| BH (60°-80°) | 561.4 | 4.9 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 72.3 | 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-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 36° | 45° | 55° | 65° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1524.9 | 1524.9 | 1524.9 | 1524.9 | 1524.9 | 1524.9 | 1524.9 | 1524.9 | 1524.9 | 1524.9 |
| 2.5° | 1406.1 | 1414.7 | 1418.5 | 1416.6 | 1425.9 | 1424.6 | 1437.6 | 1453.7 | 1476.0 | 1497.6 |
| 5° | 1297.8 | 1307.1 | 1315.2 | 1322.6 | 1340.5 | 1346.1 | 1366.5 | 1397.4 | 1438.3 | 1479.7 |
| 7.5° | 1197.0 | 1205.0 | 1217.4 | 1231.0 | 1261.3 | 1266.9 | 1300.9 | 1349.2 | 1406.1 | 1466.7 |
| 10° | 1114.7 | 1122.8 | 1135.8 | 1151.2 | 1189.0 | 1195.8 | 1239.1 | 1303.4 | 1377.6 | 1454.3 |
| 12.5° | 1079.5 | 1081.9 | 1089.4 | 1104.8 | 1137.6 | 1141.9 | 1189.6 | 1263.2 | 1349.8 | 1445.1 |
| 15° | 1077.6 | 1082.6 | 1083.2 | 1091.2 | 1118.4 | 1120.3 | 1164.2 | 1237.2 | 1332.5 | 1443.2 |
| 17.5° | 1096.2 | 1099.9 | 1094.3 | 1099.3 | 1122.1 | 1125.2 | 1159.9 | 1224.8 | 1326.9 | 1451.2 |
| 20° | 1145.7 | 1148.7 | 1132.0 | 1125.2 | 1141.9 | 1144.4 | 1178.4 | 1232.9 | 1332.5 | 1467.9 |
| 22.5° | 1250.8 | 1252.7 | 1211.8 | 1184.0 | 1185.2 | 1186.5 | 1216.2 | 1265.7 | 1354.1 | 1498.3 |
| 25° | 1414.7 | 1413.5 | 1348.6 | 1294.7 | 1263.8 | 1257.0 | 1276.8 | 1318.9 | 1390.6 | 1538.5 |
| 27.5° | 1606.5 | 1597.2 | 1532.3 | 1451.9 | 1384.4 | 1374.5 | 1370.2 | 1388.1 | 1442.6 | 1591.7 |
| 30° | 1823.0 | 1814.4 | 1744.5 | 1639.3 | 1545.9 | 1529.8 | 1489.0 | 1479.7 | 1519.9 | 1664.0 |
| 32.5° | 2060.6 | 2055.0 | 1971.5 | 1844.1 | 1719.1 | 1700.5 | 1631.9 | 1607.1 | 1638.7 | 1773.5 |
| 35° | 2259.8 | 2254.8 | 2185.5 | 2054.4 | 1901.6 | 1878.7 | 1808.8 | 1781.0 | 1797.0 | 1914.0 |
| 37.5° | 2439.8 | 2437.3 | 2377.9 | 2274.6 | 2116.9 | 2089.0 | 2010.5 | 2001.2 | 1998.1 | 2098.9 |
| 40° | 2606.8 | 2600.6 | 2538.7 | 2484.3 | 2367.4 | 2342.0 | 2272.7 | 2264.7 | 2241.2 | 2326.6 |
| 42.5° | 2791.8 | 2775.7 | 2686.0 | 2660.6 | 2629.1 | 2608.0 | 2566.6 | 2567.8 | 2515.9 | 2583.3 |
| 45° | 2942.7 | 2933.4 | 2841.2 | 2826.4 | 2860.4 | 2851.8 | 2887.6 | 2896.9 | 2796.1 | 2852.4 |
| 47.5° | 3104.8 | 3096.1 | 3018.2 | 3007.6 | 3099.8 | 3102.3 | 3229.1 | 3232.2 | 3069.5 | 3132.0 |
| 50° | 3304.6 | 3292.2 | 3214.9 | 3227.9 | 3331.2 | 3340.5 | 3572.4 | 3551.4 | 3321.3 | 3415.9 |
| 52.5° | 3436.3 | 3443.8 | 3427.1 | 3448.1 | 3589.1 | 3597.8 | 3910.2 | 3856.4 | 3570.6 | 3696.2 |
| 55° | 3533.5 | 3548.3 | 3600.3 | 3648.5 | 3861.3 | 3870.0 | 4228.8 | 4146.5 | 3777.2 | 3956.0 |
| 57.5° | 3658.4 | 3637.4 | 3734.5 | 3828.5 | 4119.9 | 4142.8 | 4538.7 | 4426.1 | 3960.3 | 4179.9 |
| 60° | 3837.8 | 3823.0 | 3898.4 | 4037.6 | 4409.4 | 4445.9 | 4866.6 | 4677.9 | 4094.5 | 4357.4 |
| 62.5° | 4201.6 | 4164.4 | 4176.2 | 4299.3 | 4774.4 | 4822.6 | 5236.5 | 4897.5 | 4161.3 | 4426.7 |
| 65° | 4745.3 | 4681.6 | 4622.2 | 4707.6 | 5288.4 | 5336.1 | 5654.0 | 5070.1 | 4136.6 | 4292.5 |
| 67.5° | 5430.1 | 5367.0 | 5294.0 | 5374.4 | 6045.6 | 6083.3 | 6169.3 | 5167.2 | 3941.7 | 3775.3 |
| 70° | 5994.9 | 5971.4 | 6058.6 | 6389.6 | 7255.0 | 7256.2 | 6830.0 | 5086.8 | 3407.9 | 2676.7 |
| 72.5° | 5920.0 | 5905.8 | 6365.4 | 7388.6 | 8779.2 | 8746.4 | 7455.4 | 4478.1 | 2295.6 | 1207.5 |
| 75° | 4856.7 | 4948.8 | 5660.8 | 7370.7 | 9326.7 | 9322.4 | 7072.5 | 2846.8 | 949.6 | 500.5 |
| 77.5° | 2604.3 | 2750.3 | 3675.1 | 5441.9 | 7281.0 | 7390.5 | 4972.3 | 996.0 | 407.7 | 320.4 |
| 80° | 849.3 | 976.8 | 1464.9 | 2770.7 | 4731.1 | 4710.7 | 2131.1 | 391.0 | 279.0 | 227.0 |
| 82.5° | 360.6 | 375.5 | 654.5 | 1308.3 | 2428.0 | 2390.3 | 678.6 | 224.6 | 196.1 | 155.3 |
| 85° | 141.0 | 157.7 | 288.9 | 605.0 | 1051.6 | 1028.7 | 245.0 | 111.3 | 125.6 | 101.5 |
| 87.5° | 46.4 | 56.3 | 103.3 | 207.2 | 327.2 | 315.5 | 60.0 | 38.4 | 54.4 | 46.4 |
| 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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 CATALOG NUMBER: GLAN-SB4A-927-U-T4FT

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1524.9 | 0° | 1524.9 | 1524.9 | 1524.9 | 1524.9 | 1524.9 | 1524.9 | 1524.9 | 1524.9 | 1524.9 | 1524.9 |
| 1529.2 | 2.5° | 1537.8 | 1547.7 | 1559.5 | 1576.8 | 1591.7 | 1604.0 | 1617.0 | 1625.1 | 1628.2 | 1637.4 |
| 1531.7 | 5° | 1549.0 | 1570.6 | 1599.7 | 1628.2 | 1656.0 | 1672.7 | 1687.5 | 1695.0 | 1701.8 | 1706.7 |
| 1538.5 | 7.5° | 1567.5 | 1595.4 | 1641.2 | 1678.3 | 1701.8 | 1715.4 | 1725.3 | 1722.8 | 1725.3 | 1726.5 |
| 1545.9 | 10° | 1583.6 | 1622.6 | 1677.0 | 1712.3 | 1730.2 | 1730.9 | 1728.4 | 1719.7 | 1715.4 | 1716.0 |
| 1557.0 | 12.5° | 1602.8 | 1646.1 | 1704.9 | 1734.6 | 1739.5 | 1725.9 | 1715.4 | 1700.5 | 1695.0 | 1692.5 |
| 1573.7 | 15° | 1628.8 | 1678.3 | 1735.2 | 1746.3 | 1733.9 | 1716.6 | 1698.7 | 1674.6 | 1662.2 | 1652.3 |
| 1602.2 | 17.5° | 1660.3 | 1714.8 | 1758.7 | 1750.6 | 1724.0 | 1695.6 | 1666.5 | 1630.0 | 1604.7 | 1594.1 |
| 1641.2 | 20° | 1704.3 | 1753.1 | 1776.6 | 1741.4 | 1701.2 | 1657.9 | 1608.4 | 1563.8 | 1540.3 | 1529.8 |
| 1690.6 | 22.5° | 1757.5 | 1804.5 | 1793.9 | 1725.3 | 1668.4 | 1599.1 | 1537.2 | 1504.4 | 1492.7 | 1485.3 |
| 1754.4 | 25° | 1821.2 | 1861.4 | 1806.3 | 1701.8 | 1614.6 | 1521.1 | 1473.5 | 1463.0 | 1457.4 | 1451.9 |
| 1832.3 | 27.5° | 1904.1 | 1925.7 | 1815.6 | 1667.1 | 1530.4 | 1438.3 | 1420.9 | 1422.8 | 1420.9 | 1411.7 |
| 1940.6 | 30° | 2013.6 | 2009.2 | 1824.3 | 1610.8 | 1433.9 | 1363.4 | 1364.6 | 1372.7 | 1373.9 | 1367.7 |
| 2091.5 | 32.5° | 2157.7 | 2113.8 | 1828.6 | 1537.8 | 1341.8 | 1297.8 | 1299.1 | 1307.7 | 1313.9 | 1303.4 |
| 2288.8 | 35° | 2332.1 | 2235.6 | 1821.8 | 1446.3 | 1270.6 | 1235.4 | 1226.1 | 1228.5 | 1230.4 | 1220.5 |
| 2528.2 | 37.5° | 2535.7 | 2372.3 | 1791.5 | 1344.8 | 1211.8 | 1174.1 | 1154.3 | 1137.6 | 1127.7 | 1118.4 |
| 2799.2 | 40° | 2759.0 | 2521.4 | 1735.8 | 1245.9 | 1146.3 | 1109.2 | 1079.5 | 1047.9 | 1014.5 | 1002.1 |
| 3086.2 | 42.5° | 2992.8 | 2674.8 | 1668.4 | 1151.2 | 1070.8 | 1040.5 | 1008.9 | 963.2 | 913.1 | 887.7 |
| 3384.4 | 45° | 3235.3 | 2832.0 | 1602.2 | 1057.8 | 993.5 | 980.5 | 944.0 | 888.9 | 834.5 | 802.3 |
| 3683.2 | 47.5° | 3472.8 | 2980.4 | 1505.1 | 963.8 | 921.1 | 935.3 | 906.9 | 856.1 | 795.5 | 744.8 |
| 3979.5 | 50° | 3699.9 | 3119.6 | 1346.1 | 868.5 | 862.3 | 921.7 | 894.5 | 821.5 | 752.2 | 687.3 |
| 4270.2 | 52.5° | 3925.0 | 3232.2 | 1142.6 | 781.9 | 830.8 | 918.0 | 878.4 | 798.0 | 713.2 | 645.2 |
| 4543.6 | 55° | 4116.2 | 3290.4 | 946.5 | 707.7 | 785.0 | 886.5 | 859.2 | 770.2 | 658.2 | 585.8 |
| 4731.1 | 57.5° | 4225.1 | 3243.3 | 783.2 | 634.7 | 721.9 | 834.5 | 826.5 | 710.8 | 592.6 | 536.9 |
| 4767.6 | 60° | 4178.0 | 3052.8 | 649.5 | 571.0 | 661.9 | 778.2 | 769.5 | 652.0 | 542.5 | 489.9 |
| 4572.1 | 62.5° | 3918.9 | 2689.7 | 543.8 | 515.3 | 607.5 | 720.7 | 712.6 | 606.8 | 504.2 | 453.4 |
| 4053.1 | 65° | 3396.8 | 2188.0 | 461.5 | 468.9 | 552.4 | 651.4 | 663.1 | 569.1 | 473.9 | 424.4 |
| 3135.7 | 67.5° | 2590.7 | 1584.9 | 397.1 | 428.7 | 498.6 | 583.3 | 617.4 | 541.9 | 448.5 | 401.5 |
| 1814.4 | 70° | 1476.6 | 900.1 | 342.7 | 389.7 | 451.0 | 520.2 | 582.1 | 520.2 | 421.3 | 382.3 |
| 679.8 | 72.5° | 559.8 | 413.2 | 296.3 | 350.7 | 405.2 | 467.0 | 543.1 | 486.2 | 389.7 | 360.6 |
| 351.4 | 75° | 298.8 | 251.8 | 249.3 | 305.0 | 352.6 | 415.1 | 494.3 | 452.8 | 366.2 | 381.1 |
| 243.1 | 77.5° | 203.5 | 178.2 | 208.5 | 261.1 | 295.1 | 357.6 | 442.3 | 402.1 | 317.3 | 316.1 |
| 168.3 | 80° | 141.0 | 126.2 | 169.5 | 210.3 | 228.3 | 300.6 | 386.0 | 345.2 | 258.6 | 241.3 |
| 103.9 | 82.5° | 84.7 | 82.3 | 126.8 | 157.1 | 161.5 | 232.0 | 319.8 | 289.5 | 211.6 | 184.3 |
| 61.9 | 85° | 46.4 | 48.9 | 81.0 | 92.2 | 94.0 | 162.1 | 250.5 | 223.9 | 162.7 | 136.7 |
| 22.3 | 87.5° | 13.0 | 16.7 | 29.7 | 36.5 | 45.2 | 84.1 | 149.1 | 133.0 | 81.7 | 56.9 |
| 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° |
|--------|
| 1524.9 |
| 1636.8 |
| 1708.0 |
| 1728.4 |
| 1717.2 |
| 1691.3 |
| 1655.4 |
| 1594.8 |
| 1528.6 |
| 1486.5 |
| 1451.9 |
| 1413.5 |
| 1370.8 |
| 1308.3 |
| 1227.3 |
| 1124.6 |
| 1007.7 |
| 890.8 |
| 799.9 |
| 739.2 |
| 681.7 |
| 637.8 |
| 579.6 |
| 529.5 |
| 482.5 |
| 445.4 |
| 416.3 |
| 394.1 |
| 377.3 |
| 355.7 |
| 393.4 |
| 291.4 |
| 230.7 |
| 185.6 |
| 137.9 |
| 56.9 |
| 0.0 |

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