

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: P846843

Luminaire Tested: **GLAN-SB2C-930-U-SL4**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P846843
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB2C-930-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10016 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

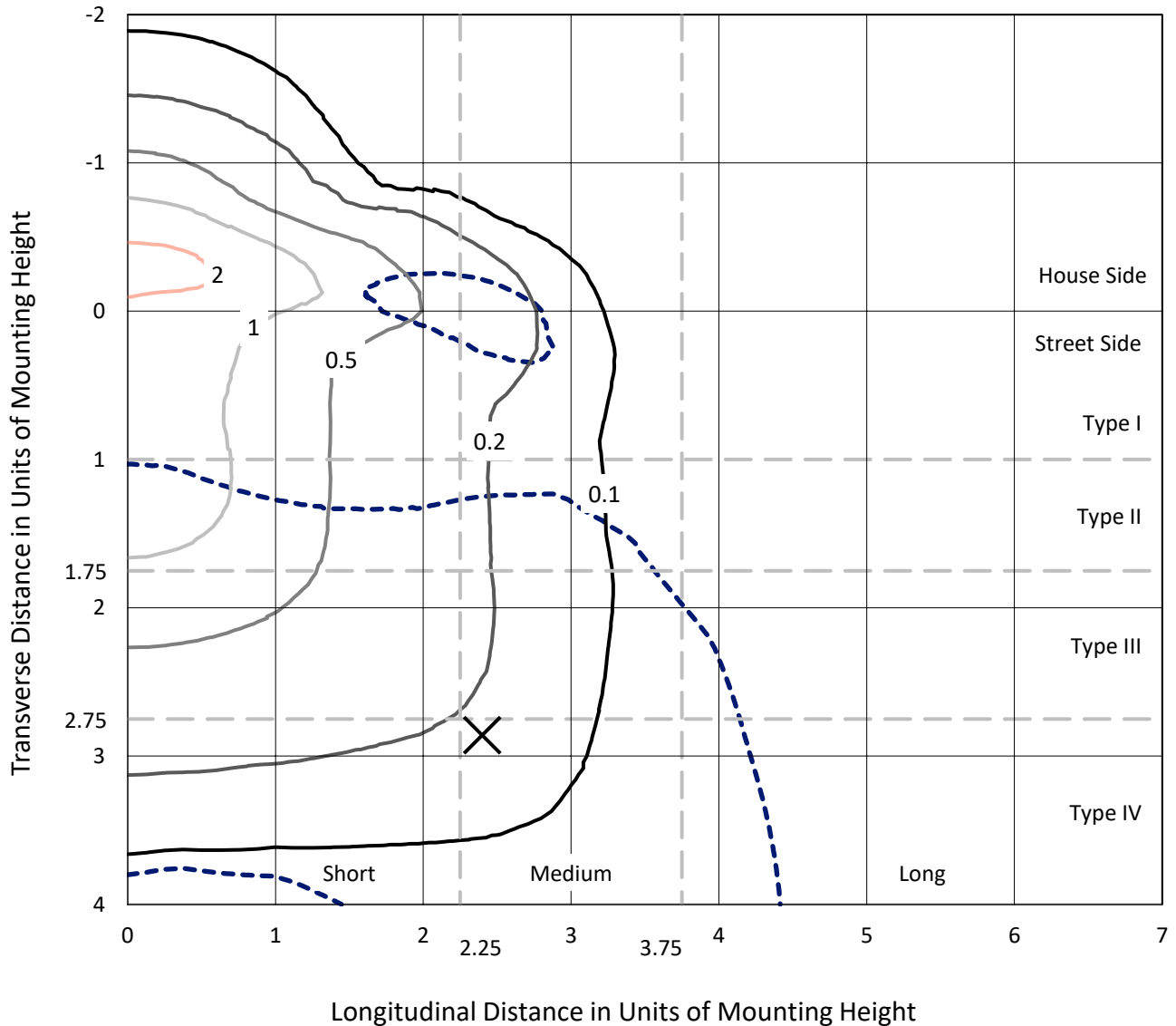
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

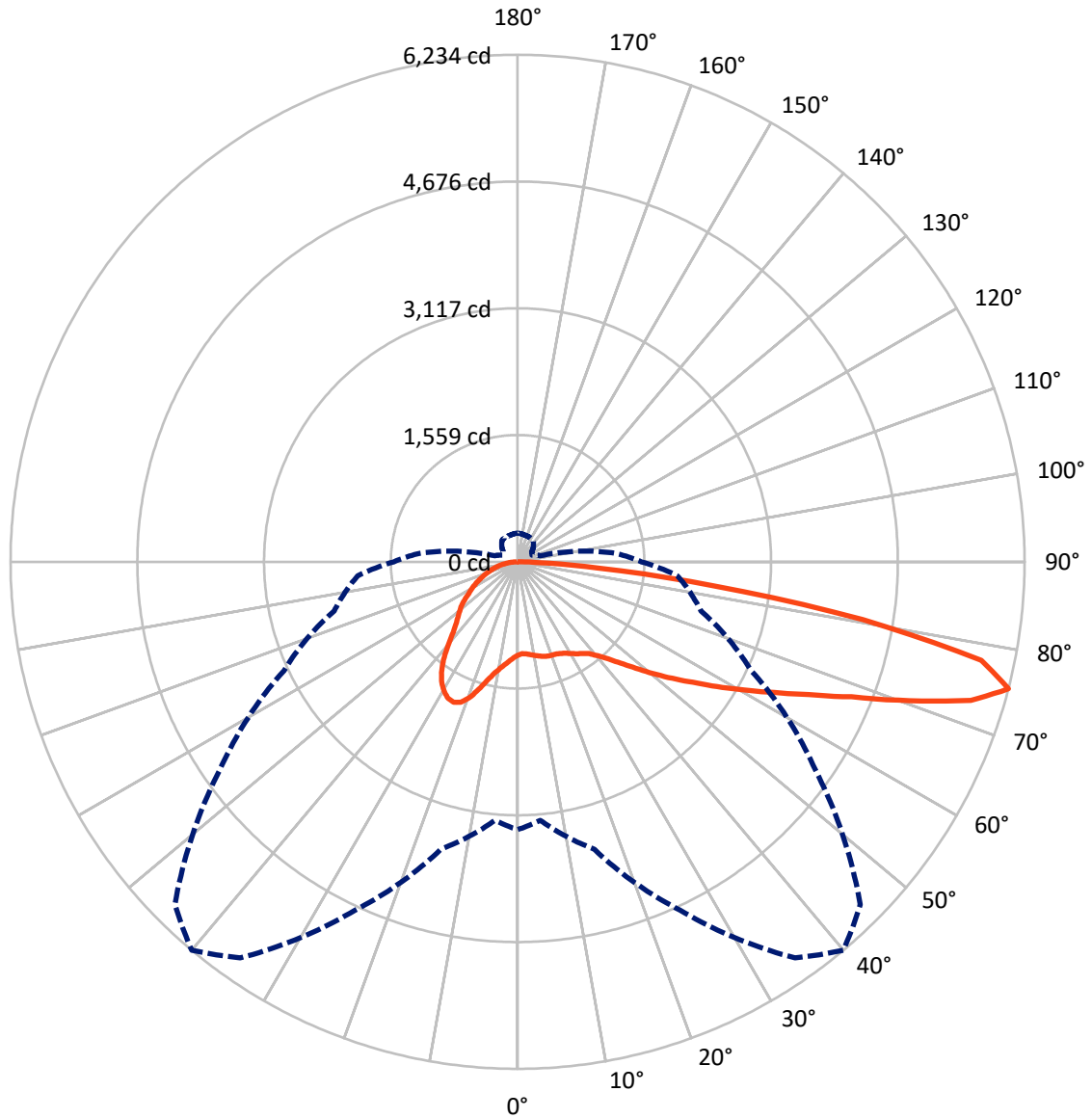
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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 | 3103.3 | 0.0 | 3103.3 |
| | % Fixture | 31.0 | 0.0 | 31.0 |
| Street Side | Lumens | 6912.7 | 0.0 | 6912.7 |
| | % Fixture | 69.0 | 0.0 | 69.0 |
| Total | Lumens | 10016.0 | 0.0 | 10016.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 114.3 | 1.1 |
| 10°-20° | 383.8 | 3.8 |
| 20°-30° | 700.9 | 7.0 |
| 30°-40° | 994.0 | 9.9 |
| 40°-50° | 1342.2 | 13.4 |
| 50°-60° | 1805.7 | 18.0 |
| 60°-70° | 2291.8 | 22.9 |
| 70°-80° | 2080.0 | 20.8 |
| 80°-90° | 303.2 | 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° | 10016.0 | 100.0 |
| 0°-180° | 10016.0 | 100.0 |

Coefficient of Utilization

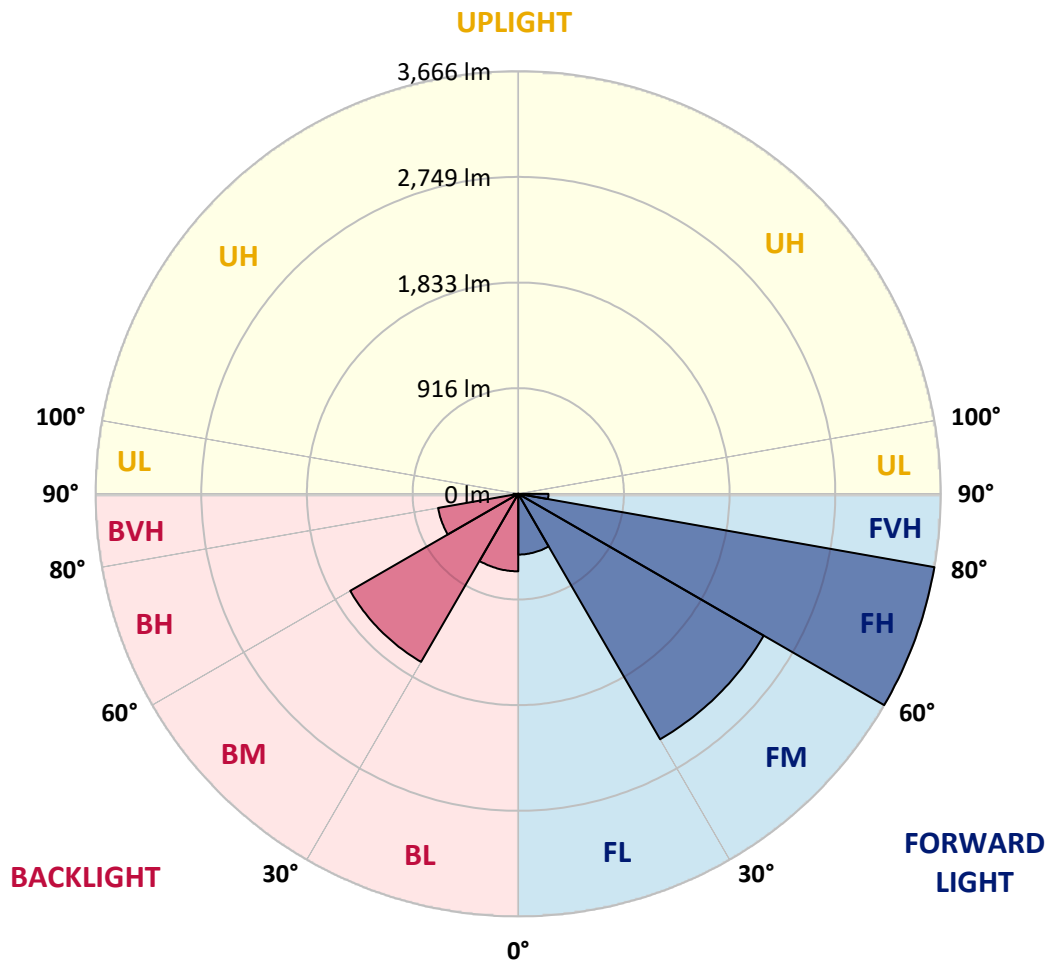


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 526.9 | 5.3 | | | |
| FM (30°-60°) | 2458.7 | 24.5 | | | |
| FH (60°-80°) | 3665.7 | 36.6 | | | G2/5000 |
| FVH (80°-90°) | 261.5 | 2.6 | | | G3/500 |
| BL (0°-30°) | 672.2 | 6.7 | B2/1000 | | |
| BM (30°-60°) | 1683.3 | 16.8 | B2/2500 | | |
| BH (60°-80°) | 706.1 | 7.0 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 41.7 | 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° | 1145.3 | 1145.3 | 1145.3 | 1145.3 | 1145.3 | 1145.3 | 1145.3 | 1145.3 | 1145.3 | 1145.3 |
| 2.5° | 1127.8 | 1134.2 | 1132.6 | 1130.5 | 1130.5 | 1131.0 | 1130.5 | 1134.2 | 1137.9 | 1141.6 |
| 5° | 1139.5 | 1145.9 | 1142.7 | 1140.0 | 1137.9 | 1137.4 | 1135.8 | 1135.2 | 1137.4 | 1142.2 |
| 7.5° | 1162.3 | 1168.7 | 1163.9 | 1159.2 | 1154.9 | 1152.8 | 1150.7 | 1147.5 | 1145.9 | 1148.5 |
| 10° | 1187.8 | 1194.2 | 1188.4 | 1179.9 | 1173.0 | 1170.3 | 1168.2 | 1165.0 | 1162.9 | 1164.5 |
| 12.5° | 1213.3 | 1219.7 | 1211.7 | 1200.1 | 1191.0 | 1189.4 | 1186.8 | 1185.7 | 1185.2 | 1184.7 |
| 15° | 1237.2 | 1242.6 | 1232.5 | 1218.7 | 1209.1 | 1206.4 | 1203.8 | 1205.4 | 1208.0 | 1211.2 |
| 17.5° | 1255.8 | 1261.2 | 1246.3 | 1228.2 | 1219.2 | 1218.1 | 1216.5 | 1221.8 | 1229.3 | 1237.2 |
| 20° | 1272.8 | 1278.2 | 1259.0 | 1234.6 | 1224.0 | 1224.0 | 1224.5 | 1235.7 | 1246.3 | 1258.0 |
| 22.5° | 1296.7 | 1301.0 | 1277.6 | 1244.2 | 1228.7 | 1229.8 | 1234.1 | 1245.2 | 1258.5 | 1274.4 |
| 25° | 1332.3 | 1335.5 | 1306.8 | 1262.2 | 1244.7 | 1247.9 | 1251.6 | 1256.9 | 1269.7 | 1288.2 |
| 27.5° | 1389.7 | 1392.4 | 1354.6 | 1294.1 | 1267.5 | 1272.8 | 1278.2 | 1274.4 | 1280.3 | 1296.2 |
| 30° | 1470.5 | 1472.1 | 1424.2 | 1344.0 | 1306.3 | 1309.0 | 1310.0 | 1294.6 | 1283.5 | 1296.2 |
| 32.5° | 1566.1 | 1565.5 | 1508.7 | 1404.6 | 1350.4 | 1347.7 | 1338.7 | 1308.4 | 1282.4 | 1293.6 |
| 35° | 1714.3 | 1708.5 | 1635.1 | 1489.6 | 1400.3 | 1383.9 | 1362.6 | 1323.8 | 1287.7 | 1290.9 |
| 37.5° | 1959.7 | 1941.7 | 1840.2 | 1628.8 | 1474.7 | 1432.7 | 1401.4 | 1348.8 | 1299.4 | 1289.8 |
| 40° | 2236.5 | 2213.7 | 2102.1 | 1819.5 | 1586.3 | 1518.8 | 1468.3 | 1384.4 | 1318.5 | 1294.6 |
| 42.5° | 2564.8 | 2532.4 | 2412.3 | 2044.2 | 1727.6 | 1629.8 | 1553.9 | 1429.6 | 1346.7 | 1310.0 |
| 45° | 2968.0 | 2925.0 | 2755.0 | 2297.6 | 1905.5 | 1775.4 | 1673.9 | 1498.1 | 1389.7 | 1339.8 |
| 47.5° | 3375.5 | 3386.1 | 3144.4 | 2587.6 | 2119.1 | 1954.9 | 1824.3 | 1601.1 | 1452.4 | 1387.6 |
| 50° | 3808.4 | 3815.9 | 3531.7 | 2909.0 | 2361.3 | 2157.9 | 1993.2 | 1716.4 | 1539.5 | 1455.6 |
| 52.5° | 4146.3 | 4147.4 | 3883.3 | 3245.3 | 2613.7 | 2381.0 | 2175.4 | 1848.2 | 1640.5 | 1545.9 |
| 55° | 4357.7 | 4355.1 | 4129.8 | 3563.5 | 2903.7 | 2615.3 | 2377.3 | 1998.0 | 1763.7 | 1652.1 |
| 57.5° | 4511.2 | 4503.3 | 4299.8 | 3837.1 | 3212.9 | 2892.0 | 2605.7 | 2168.0 | 1909.3 | 1778.6 |
| 60° | 4569.7 | 4564.9 | 4415.1 | 4073.5 | 3538.0 | 3198.0 | 2869.2 | 2358.2 | 2074.5 | 1927.9 |
| 62.5° | 4592.0 | 4601.0 | 4528.2 | 4302.5 | 3886.0 | 3537.0 | 3158.7 | 2585.5 | 2260.4 | 2096.8 |
| 65° | 4670.6 | 4687.1 | 4672.2 | 4602.1 | 4279.1 | 3933.8 | 3542.8 | 2855.9 | 2463.3 | 2277.9 |
| 67.5° | 4826.3 | 4842.7 | 4849.1 | 4960.7 | 4759.3 | 4428.4 | 4022.0 | 3192.7 | 2700.8 | 2466.0 |
| 70° | 4822.6 | 4817.8 | 4930.4 | 5245.9 | 5360.7 | 5113.1 | 4668.0 | 3607.1 | 2983.9 | 2622.2 |
| 72.5° | 4389.6 | 4351.3 | 4617.5 | 5242.8 | 5861.1 | 5828.2 | 5456.8 | 4141.5 | 3228.3 | 2641.3 |
| 75° | 3293.1 | 3191.1 | 3661.3 | 4724.8 | 5944.5 | 6234.0 | 5958.3 | 4473.0 | 3170.4 | 2333.7 |
| 77.5° | 1408.3 | 1305.8 | 1859.9 | 3497.7 | 5320.3 | 5827.6 | 5498.3 | 3902.5 | 2530.8 | 1543.2 |
| 80° | 368.7 | 368.1 | 562.0 | 1585.7 | 3618.2 | 4303.5 | 3775.5 | 2520.2 | 1446.0 | 551.4 |
| 82.5° | 152.5 | 148.7 | 206.7 | 616.8 | 1768.0 | 2415.0 | 1970.9 | 1124.1 | 522.2 | 149.3 |
| 85° | 56.8 | 56.3 | 100.4 | 213.0 | 623.7 | 996.1 | 720.9 | 287.4 | 130.2 | 72.8 |
| 87.5° | 15.9 | 15.4 | 21.8 | 73.8 | 151.9 | 230.6 | 123.2 | 47.3 | 36.7 | 28.7 |
| 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° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1145.3 | 0° | 1145.3 | 1145.3 | 1145.3 | 1145.3 | 1145.3 | 1145.3 | 1145.3 | 1145.3 | 1145.3 | 1145.3 |
| 1147.5 | 2.5° | 1149.1 | 1151.7 | 1156.5 | 1160.2 | 1165.0 | 1170.3 | 1177.7 | 1182.5 | 1187.3 | 1190.5 |
| 1150.1 | 5° | 1153.8 | 1159.7 | 1171.9 | 1184.1 | 1198.5 | 1211.7 | 1227.2 | 1238.3 | 1247.3 | 1250.0 |
| 1159.7 | 7.5° | 1164.5 | 1174.0 | 1194.7 | 1215.5 | 1238.3 | 1260.1 | 1282.4 | 1301.5 | 1316.9 | 1322.8 |
| 1176.7 | 10° | 1183.1 | 1195.8 | 1225.0 | 1254.2 | 1284.5 | 1318.0 | 1346.7 | 1374.3 | 1396.1 | 1405.1 |
| 1196.9 | 12.5° | 1206.4 | 1222.4 | 1260.6 | 1301.0 | 1343.0 | 1389.2 | 1426.4 | 1460.4 | 1487.5 | 1499.7 |
| 1225.0 | 15° | 1236.7 | 1257.4 | 1306.3 | 1360.5 | 1422.1 | 1486.4 | 1533.7 | 1571.4 | 1601.7 | 1616.5 |
| 1254.2 | 17.5° | 1269.7 | 1297.3 | 1358.9 | 1440.7 | 1528.9 | 1613.4 | 1668.6 | 1696.2 | 1727.6 | 1741.9 |
| 1281.3 | 20° | 1301.5 | 1335.5 | 1423.7 | 1542.7 | 1660.1 | 1749.9 | 1794.5 | 1801.9 | 1804.1 | 1805.7 |
| 1306.8 | 22.5° | 1334.5 | 1380.1 | 1505.0 | 1671.3 | 1797.2 | 1859.3 | 1865.7 | 1833.8 | 1789.2 | 1768.5 |
| 1331.8 | 25° | 1370.6 | 1431.1 | 1611.2 | 1813.1 | 1915.1 | 1922.5 | 1873.7 | 1796.1 | 1711.6 | 1672.9 |
| 1352.0 | 27.5° | 1405.6 | 1490.1 | 1738.7 | 1948.6 | 2000.1 | 1934.8 | 1829.6 | 1719.6 | 1617.6 | 1576.7 |
| 1366.3 | 30° | 1440.7 | 1557.6 | 1879.5 | 2067.0 | 2038.9 | 1904.5 | 1760.0 | 1637.3 | 1534.7 | 1491.7 |
| 1379.1 | 32.5° | 1476.3 | 1636.2 | 2041.5 | 2152.6 | 2032.0 | 1840.2 | 1673.4 | 1544.8 | 1454.5 | 1409.4 |
| 1390.2 | 35° | 1516.7 | 1732.9 | 2195.1 | 2199.3 | 1985.8 | 1745.6 | 1559.2 | 1434.3 | 1355.7 | 1319.6 |
| 1403.5 | 37.5° | 1569.3 | 1855.6 | 2330.5 | 2211.0 | 1905.0 | 1607.0 | 1417.3 | 1303.7 | 1238.8 | 1222.4 |
| 1423.2 | 40° | 1634.6 | 2003.3 | 2434.1 | 2192.4 | 1785.5 | 1438.6 | 1262.2 | 1171.4 | 1134.7 | 1138.4 |
| 1449.7 | 42.5° | 1719.6 | 2168.5 | 2506.9 | 2144.6 | 1619.2 | 1264.9 | 1126.2 | 1085.8 | 1103.4 | 1118.2 |
| 1489.6 | 45° | 1830.1 | 2340.1 | 2552.1 | 2063.3 | 1431.1 | 1117.7 | 1046.0 | 1055.6 | 1068.8 | 1070.4 |
| 1553.9 | 47.5° | 1971.4 | 2513.8 | 2581.8 | 1940.6 | 1239.4 | 1014.1 | 995.0 | 997.1 | 994.5 | 983.3 |
| 1650.0 | 50° | 2147.8 | 2682.7 | 2608.4 | 1778.0 | 1076.3 | 949.3 | 923.8 | 916.4 | 879.7 | 843.6 |
| 1778.0 | 52.5° | 2348.6 | 2837.9 | 2619.5 | 1576.2 | 949.3 | 895.1 | 853.7 | 806.9 | 738.4 | 727.3 |
| 1939.0 | 55° | 2571.7 | 2981.3 | 2590.8 | 1328.1 | 842.5 | 825.5 | 762.9 | 706.5 | 699.1 | 689.5 |
| 2151.0 | 57.5° | 2838.4 | 3135.9 | 2532.4 | 1051.3 | 733.1 | 744.3 | 683.2 | 689.5 | 676.3 | 661.4 |
| 2423.5 | 60° | 3130.0 | 3295.8 | 2429.9 | 799.0 | 620.0 | 642.8 | 662.5 | 661.9 | 658.2 | 646.0 |
| 2710.9 | 62.5° | 3392.5 | 3401.0 | 2228.0 | 612.0 | 520.6 | 564.2 | 617.8 | 617.3 | 614.1 | 607.2 |
| 3011.0 | 65° | 3548.7 | 3385.0 | 1891.2 | 481.8 | 438.8 | 499.4 | 557.3 | 561.5 | 562.0 | 561.5 |
| 3236.8 | 67.5° | 3521.0 | 3198.6 | 1429.0 | 383.6 | 371.3 | 433.5 | 497.2 | 503.1 | 507.3 | 508.4 |
| 3265.5 | 70° | 3208.7 | 2789.0 | 931.8 | 306.0 | 311.3 | 375.6 | 440.4 | 446.2 | 450.0 | 454.2 |
| 2833.6 | 72.5° | 2501.1 | 2050.6 | 533.4 | 247.6 | 258.7 | 325.6 | 384.1 | 391.0 | 393.1 | 401.1 |
| 1971.9 | 75° | 1524.1 | 1205.9 | 287.9 | 195.0 | 212.5 | 278.4 | 328.3 | 336.3 | 340.0 | 349.6 |
| 968.4 | 77.5° | 724.6 | 522.2 | 164.2 | 151.9 | 171.1 | 227.4 | 277.3 | 286.3 | 276.2 | 281.6 |
| 267.2 | 80° | 244.9 | 193.9 | 103.6 | 115.8 | 130.7 | 177.4 | 222.1 | 231.1 | 209.8 | 208.8 |
| 88.7 | 82.5° | 85.5 | 78.6 | 65.9 | 77.0 | 84.5 | 127.0 | 167.9 | 179.6 | 156.2 | 155.7 |
| 39.8 | 85° | 33.5 | 31.9 | 36.7 | 42.0 | 50.5 | 78.1 | 110.5 | 116.3 | 96.2 | 77.6 |
| 11.7 | 87.5° | 6.9 | 7.4 | 9.0 | 9.6 | 15.4 | 27.1 | 39.8 | 48.9 | 38.8 | 32.9 |
| 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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| <u>180°</u> |
|-------------|
| 1145.3 |
| 1188.4 |
| 1251.1 |
| 1323.3 |
| 1405.6 |
| 1499.7 |
| 1615.5 |
| 1741.4 |
| 1809.9 |
| 1774.3 |
| 1678.7 |
| 1581.5 |
| 1496.5 |
| 1415.2 |
| 1327.6 |
| 1234.1 |
| 1151.2 |
| 1132.1 |
| 1081.1 |
| 991.8 |
| 848.4 |
| 731.0 |
| 691.1 |
| 658.7 |
| 641.7 |
| 604.5 |
| 561.5 |
| 509.5 |
| 456.3 |
| 404.3 |
| 350.6 |
| 277.3 |
| 206.7 |
| 148.2 |
| 76.5 |
| 30.3 |
| 0.0 |

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