

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: P945654

Luminaire Tested: **GALN-SB1C-750-U-SL2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945654
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-750-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6424 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

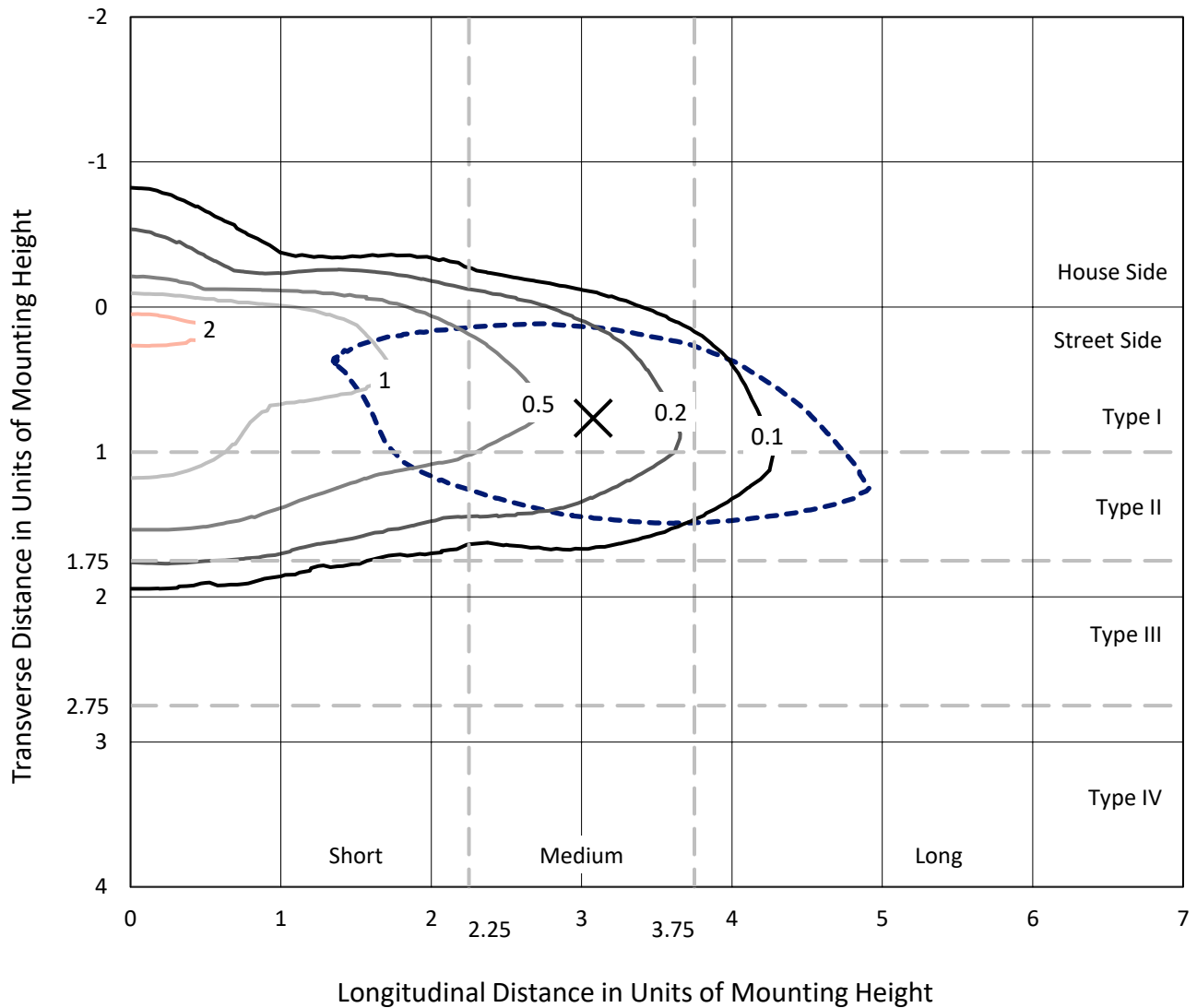
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

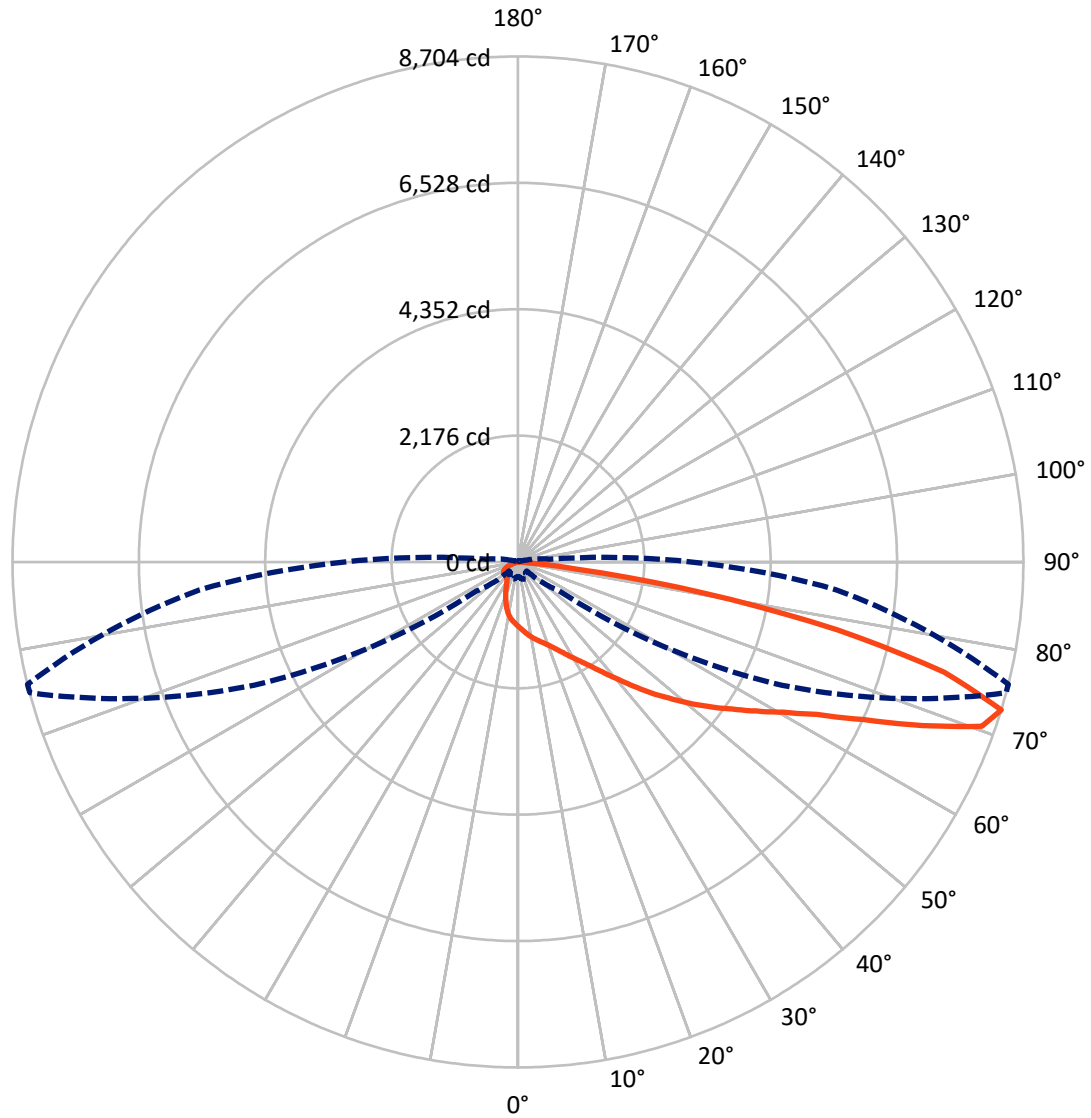
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 657.5 | 0.0 | 657.5 |
| | % Fixture | 10.2 | 0.0 | 10.2 |
| Street Side | Lumens | 5766.5 | 0.0 | 5766.5 |
| | % Fixture | 89.8 | 0.0 | 89.8 |
| Total | Lumens | 6424.0 | 0.0 | 6424.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 101.0 | 1.6 |
| 10°-20° | 270.7 | 4.2 |
| 20°-30° | 428.5 | 6.7 |
| 30°-40° | 662.9 | 10.3 |
| 40°-50° | 1006.9 | 15.7 |
| 50°-60° | 1388.1 | 21.6 |
| 60°-70° | 1466.4 | 22.8 |
| 70°-80° | 1006.0 | 15.7 |
| 80°-90° | 93.6 | 1.5 |
| 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° | 6424.0 | 100.0 |
| 0°-180° | 6424.0 | 100.0 |

Coefficient of Utilization



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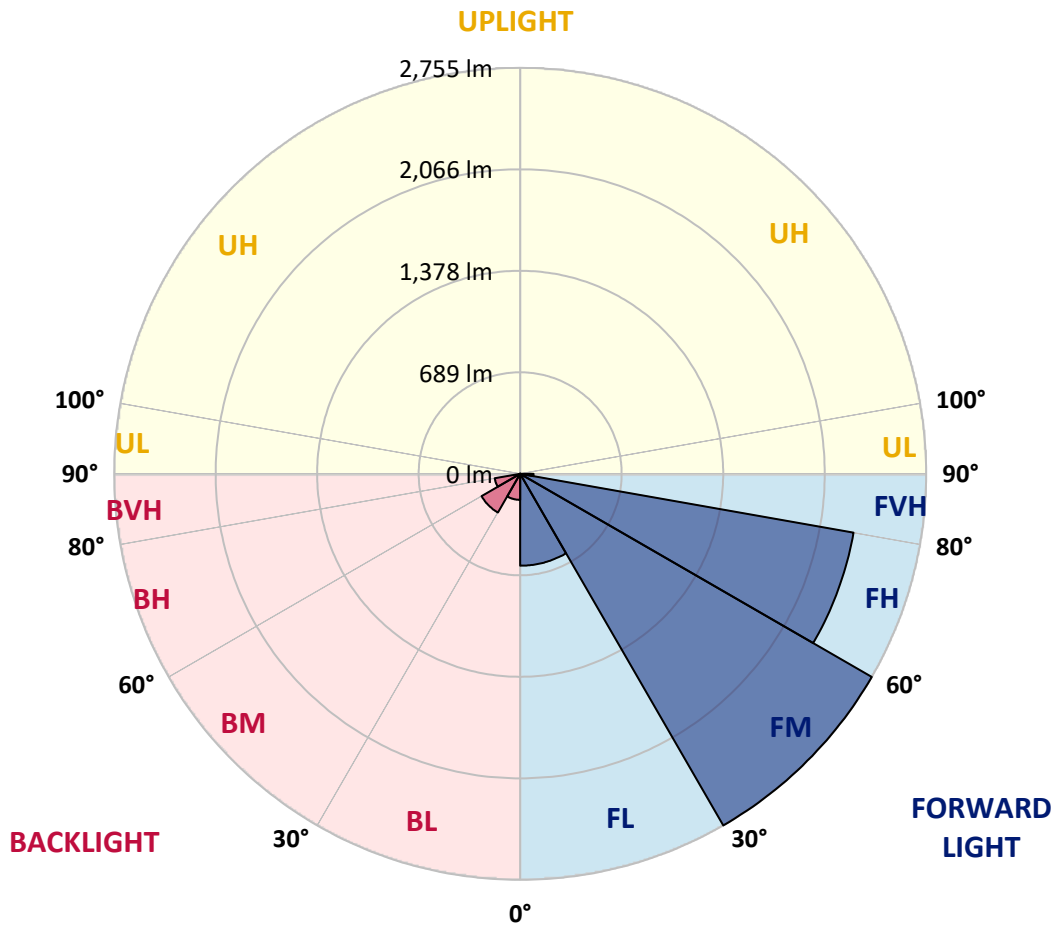
CATALOG NUMBER: GALN-SB1C-750-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 623.4 | 9.7 | | | |
| FM (30°-60°) | 2755.1 | 42.9 | | | |
| FH (60°-80°) | 2296.9 | 35.8 | | | G2/5000 |
| FVH (80°-90°) | 91.1 | 1.4 | | | G1/100 |
| BL (0°-30°) | 176.7 | 2.8 | B1/500 | | |
| BM (30°-60°) | 302.7 | 4.7 | B1/1000 | | |
| BH (60°-80°) | 175.5 | 2.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.5 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1110.1 | 1110.1 | 1110.1 | 1110.1 | 1110.1 | 1110.1 | 1110.1 | 1110.1 | 1110.1 | 1110.1 |
| 2.5° | 1290.6 | 1273.5 | 1276.8 | 1259.7 | 1251.8 | 1232.6 | 1212.6 | 1186.4 | 1157.2 | 1157.2 |
| 5° | 1426.4 | 1415.6 | 1415.6 | 1395.6 | 1380.2 | 1350.1 | 1314.3 | 1268.1 | 1213.1 | 1207.6 |
| 7.5° | 1509.8 | 1503.1 | 1507.3 | 1495.6 | 1483.1 | 1451.8 | 1409.3 | 1348.9 | 1271.0 | 1264.3 |
| 10° | 1526.0 | 1525.6 | 1537.3 | 1540.6 | 1548.9 | 1533.1 | 1495.2 | 1425.6 | 1328.1 | 1318.5 |
| 12.5° | 1463.1 | 1455.2 | 1483.9 | 1517.7 | 1565.2 | 1586.4 | 1566.8 | 1495.6 | 1380.2 | 1366.8 |
| 15° | 1359.7 | 1361.4 | 1388.9 | 1441.0 | 1520.2 | 1596.0 | 1621.4 | 1563.9 | 1433.1 | 1417.2 |
| 17.5° | 1300.6 | 1294.3 | 1318.1 | 1364.7 | 1452.2 | 1559.3 | 1646.8 | 1627.7 | 1489.3 | 1471.4 |
| 20° | 1293.5 | 1293.1 | 1298.5 | 1319.7 | 1386.4 | 1506.8 | 1643.9 | 1689.8 | 1555.6 | 1534.8 |
| 22.5° | 1342.6 | 1341.8 | 1337.2 | 1333.1 | 1351.4 | 1455.6 | 1631.4 | 1748.9 | 1634.8 | 1612.3 |
| 25° | 1418.1 | 1416.8 | 1409.7 | 1384.3 | 1366.4 | 1428.1 | 1619.8 | 1804.0 | 1728.5 | 1703.5 |
| 27.5° | 1510.2 | 1509.3 | 1496.4 | 1458.1 | 1411.8 | 1430.6 | 1613.9 | 1860.6 | 1836.9 | 1812.3 |
| 30° | 1623.1 | 1621.4 | 1594.8 | 1540.6 | 1480.2 | 1470.2 | 1621.8 | 1924.4 | 1949.8 | 1931.0 |
| 32.5° | 1764.8 | 1760.2 | 1725.2 | 1643.5 | 1558.9 | 1523.1 | 1636.8 | 1989.8 | 2083.6 | 2066.1 |
| 35° | 1874.4 | 1867.3 | 1846.9 | 1774.8 | 1650.2 | 1588.1 | 1671.9 | 2067.3 | 2244.4 | 2229.0 |
| 37.5° | 1968.6 | 1961.5 | 1944.8 | 1885.6 | 1781.0 | 1671.0 | 1728.1 | 2170.7 | 2434.4 | 2426.9 |
| 40° | 2070.2 | 2058.6 | 2050.6 | 1987.3 | 1892.7 | 1790.6 | 1808.5 | 2291.5 | 2653.2 | 2654.0 |
| 42.5° | 2148.6 | 2144.0 | 2144.8 | 2096.1 | 2000.6 | 1932.3 | 1915.2 | 2427.8 | 2915.3 | 2923.2 |
| 45° | 2215.7 | 2211.9 | 2227.3 | 2193.2 | 2109.4 | 2025.2 | 2040.2 | 2582.0 | 3202.0 | 3218.3 |
| 47.5° | 2267.3 | 2271.5 | 2293.6 | 2271.5 | 2222.3 | 2090.6 | 2151.1 | 2748.2 | 3503.3 | 3505.4 |
| 50° | 2319.0 | 2320.7 | 2357.3 | 2346.5 | 2326.5 | 2173.6 | 2253.2 | 2934.1 | 3820.8 | 3824.6 |
| 52.5° | 2335.3 | 2332.8 | 2391.1 | 2417.8 | 2418.6 | 2276.1 | 2385.3 | 3136.6 | 4132.1 | 4144.2 |
| 55° | 2251.9 | 2259.0 | 2353.2 | 2461.5 | 2504.4 | 2417.8 | 2563.6 | 3392.9 | 4463.8 | 4468.8 |
| 57.5° | 1844.4 | 1883.5 | 2091.9 | 2343.2 | 2559.9 | 2620.7 | 2819.9 | 3692.5 | 4846.8 | 4842.2 |
| 60° | 1119.3 | 1166.0 | 1415.2 | 1965.2 | 2379.0 | 2824.5 | 3197.4 | 4156.7 | 5265.2 | 5252.2 |
| 62.5° | 625.9 | 640.1 | 719.7 | 1176.4 | 1809.4 | 2694.9 | 3566.2 | 4753.0 | 5826.9 | 5783.1 |
| 65° | 461.3 | 465.9 | 484.6 | 576.3 | 889.3 | 2072.7 | 3485.4 | 5466.0 | 6616.2 | 6538.2 |
| 67.5° | 400.9 | 405.5 | 423.8 | 436.3 | 397.1 | 1088.9 | 2871.6 | 5861.5 | 7618.3 | 7516.3 |
| 70° | 337.5 | 340.0 | 369.6 | 378.0 | 284.2 | 414.2 | 1844.8 | 5739.4 | 8545.9 | 8473.0 |
| 72.5° | 251.7 | 261.7 | 304.6 | 324.6 | 227.9 | 220.0 | 868.4 | 5018.1 | 8703.0 | 8703.9 |
| 75° | 170.9 | 180.0 | 229.2 | 267.1 | 175.9 | 154.2 | 350.5 | 3747.1 | 7578.3 | 7578.3 |
| 77.5° | 116.7 | 124.2 | 159.6 | 209.6 | 133.3 | 105.8 | 181.7 | 2378.2 | 5436.9 | 5628.1 |
| 80° | 51.7 | 56.3 | 102.9 | 152.1 | 101.3 | 68.3 | 102.9 | 1302.2 | 3287.9 | 3247.4 |
| 82.5° | 25.4 | 29.2 | 65.8 | 95.0 | 65.4 | 42.1 | 54.2 | 619.2 | 1065.5 | 1012.6 |
| 85° | 5.0 | 6.7 | 35.4 | 40.4 | 30.4 | 18.8 | 20.4 | 190.4 | 128.3 | 146.7 |
| 87.5° | 0.0 | 0.0 | 10.8 | 7.5 | 3.3 | 4.2 | 4.2 | 17.1 | 10.0 | 11.7 |
| 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° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1110.1 | 0° | 1110.1 | 1110.1 | 1110.1 | 1110.1 | 1110.1 | 1110.1 | 1110.1 | 1110.1 | 1110.1 | 1110.1 |
| 1128.9 | 2.5° | 1113.9 | 1098.5 | 1064.7 | 1031.4 | 997.2 | 965.9 | 944.3 | 922.6 | 909.3 | 903.4 |
| 1153.9 | 5° | 1122.6 | 1091.4 | 1020.5 | 946.4 | 873.0 | 801.3 | 747.6 | 697.2 | 681.3 | 655.1 |
| 1183.5 | 7.5° | 1136.4 | 1085.5 | 973.9 | 848.8 | 729.7 | 624.7 | 548.8 | 488.4 | 464.2 | 440.9 |
| 1208.9 | 10° | 1145.5 | 1074.7 | 912.2 | 745.1 | 583.8 | 465.9 | 393.4 | 349.6 | 333.8 | 319.6 |
| 1232.6 | 12.5° | 1149.3 | 1054.7 | 841.3 | 628.8 | 454.2 | 355.0 | 311.7 | 291.3 | 285.9 | 280.9 |
| 1255.1 | 15° | 1152.6 | 1035.1 | 762.2 | 516.7 | 358.8 | 297.1 | 280.0 | 273.4 | 269.6 | 266.3 |
| 1278.1 | 17.5° | 1155.5 | 1010.1 | 671.7 | 420.0 | 303.0 | 273.8 | 265.4 | 258.4 | 255.4 | 251.7 |
| 1311.0 | 20° | 1165.5 | 985.9 | 590.9 | 346.7 | 272.5 | 257.1 | 247.9 | 240.4 | 237.9 | 235.4 |
| 1357.7 | 22.5° | 1184.3 | 966.4 | 512.6 | 297.1 | 254.2 | 240.0 | 228.4 | 220.0 | 218.4 | 216.7 |
| 1414.3 | 25° | 1206.8 | 942.2 | 438.8 | 265.0 | 236.3 | 220.4 | 207.5 | 200.4 | 198.8 | 199.2 |
| 1479.7 | 27.5° | 1235.6 | 915.5 | 375.5 | 244.6 | 220.4 | 202.1 | 187.5 | 182.1 | 182.9 | 184.6 |
| 1555.2 | 30° | 1267.2 | 890.9 | 325.9 | 230.4 | 206.3 | 185.9 | 171.3 | 167.5 | 170.4 | 172.9 |
| 1656.0 | 32.5° | 1314.3 | 869.3 | 291.3 | 219.2 | 193.8 | 172.5 | 160.9 | 156.3 | 159.6 | 162.9 |
| 1784.8 | 35° | 1378.5 | 858.4 | 271.7 | 209.6 | 182.9 | 162.1 | 150.4 | 147.1 | 150.4 | 151.3 |
| 1941.9 | 37.5° | 1457.2 | 857.6 | 263.4 | 201.7 | 172.9 | 153.4 | 140.4 | 139.2 | 141.7 | 142.1 |
| 2130.7 | 40° | 1558.9 | 863.0 | 257.1 | 195.9 | 162.5 | 143.3 | 131.3 | 130.0 | 130.8 | 133.8 |
| 2357.8 | 42.5° | 1687.7 | 885.5 | 248.4 | 188.4 | 151.3 | 133.3 | 123.8 | 120.8 | 120.4 | 123.8 |
| 2612.0 | 45° | 1849.4 | 935.1 | 236.7 | 176.3 | 141.3 | 125.0 | 115.4 | 112.1 | 110.8 | 111.7 |
| 2874.5 | 47.5° | 2025.6 | 995.9 | 225.0 | 165.0 | 134.2 | 118.3 | 108.8 | 104.6 | 102.5 | 102.5 |
| 3119.9 | 50° | 2196.5 | 1064.7 | 217.1 | 153.4 | 129.2 | 112.1 | 101.7 | 97.5 | 94.2 | 93.3 |
| 3372.5 | 52.5° | 2365.7 | 1132.2 | 210.9 | 141.7 | 123.3 | 104.2 | 95.0 | 90.4 | 86.7 | 85.0 |
| 3622.5 | 55° | 2519.9 | 1196.4 | 200.0 | 130.4 | 115.8 | 95.8 | 88.3 | 83.8 | 79.2 | 76.3 |
| 3875.8 | 57.5° | 2667.8 | 1249.7 | 180.0 | 118.8 | 104.2 | 87.9 | 81.3 | 76.3 | 70.8 | 67.1 |
| 4132.1 | 60° | 2802.4 | 1277.2 | 155.0 | 106.3 | 92.5 | 79.6 | 73.3 | 68.8 | 61.7 | 55.4 |
| 4384.2 | 62.5° | 2904.9 | 1266.4 | 127.9 | 92.1 | 80.4 | 72.1 | 64.2 | 59.6 | 51.3 | 43.8 |
| 4686.4 | 65° | 3009.9 | 1207.2 | 102.1 | 77.1 | 70.4 | 62.1 | 53.8 | 49.2 | 39.6 | 31.7 |
| 5095.1 | 67.5° | 3146.2 | 1081.0 | 80.4 | 64.2 | 60.8 | 49.2 | 42.1 | 39.2 | 32.5 | 25.0 |
| 5533.9 | 70° | 3233.7 | 839.7 | 62.5 | 52.1 | 50.0 | 35.8 | 32.5 | 32.1 | 25.8 | 19.2 |
| 5504.4 | 72.5° | 2993.7 | 550.5 | 47.9 | 39.6 | 35.8 | 23.3 | 25.0 | 25.0 | 18.8 | 12.9 |
| 4825.1 | 75° | 2499.0 | 322.1 | 34.6 | 28.3 | 20.4 | 15.0 | 17.1 | 17.1 | 11.7 | 6.3 |
| 3439.1 | 77.5° | 1784.8 | 171.7 | 22.9 | 17.5 | 10.4 | 6.7 | 9.2 | 8.8 | 3.8 | 0.4 |
| 1348.1 | 80° | 682.6 | 59.2 | 10.8 | 7.1 | 2.9 | 1.3 | 0.8 | 0.4 | 0.4 | 0.0 |
| 210.4 | 82.5° | 104.2 | 15.4 | 2.1 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 44.6 | 85° | 18.8 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 11.7 | 87.5° | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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> |
| 1110.1 |
| 904.3 |
| 656.7 |
| 440.5 |
| 319.2 |
| 280.9 |
| 266.3 |
| 251.7 |
| 235.9 |
| 215.4 |
| 198.4 |
| 183.8 |
| 172.1 |
| 162.1 |
| 150.9 |
| 141.3 |
| 133.3 |
| 123.3 |
| 112.9 |
| 102.5 |
| 92.9 |
| 84.2 |
| 75.0 |
| 65.4 |
| 53.8 |
| 40.8 |
| 29.6 |
| 23.3 |
| 17.1 |
| 11.3 |
| 5.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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