

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: P948667

Luminaire Tested: **GALN-SB3C-927-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948667
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3C-927-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10453 lumens
Efficiency: N/A
Efficacy: 70.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

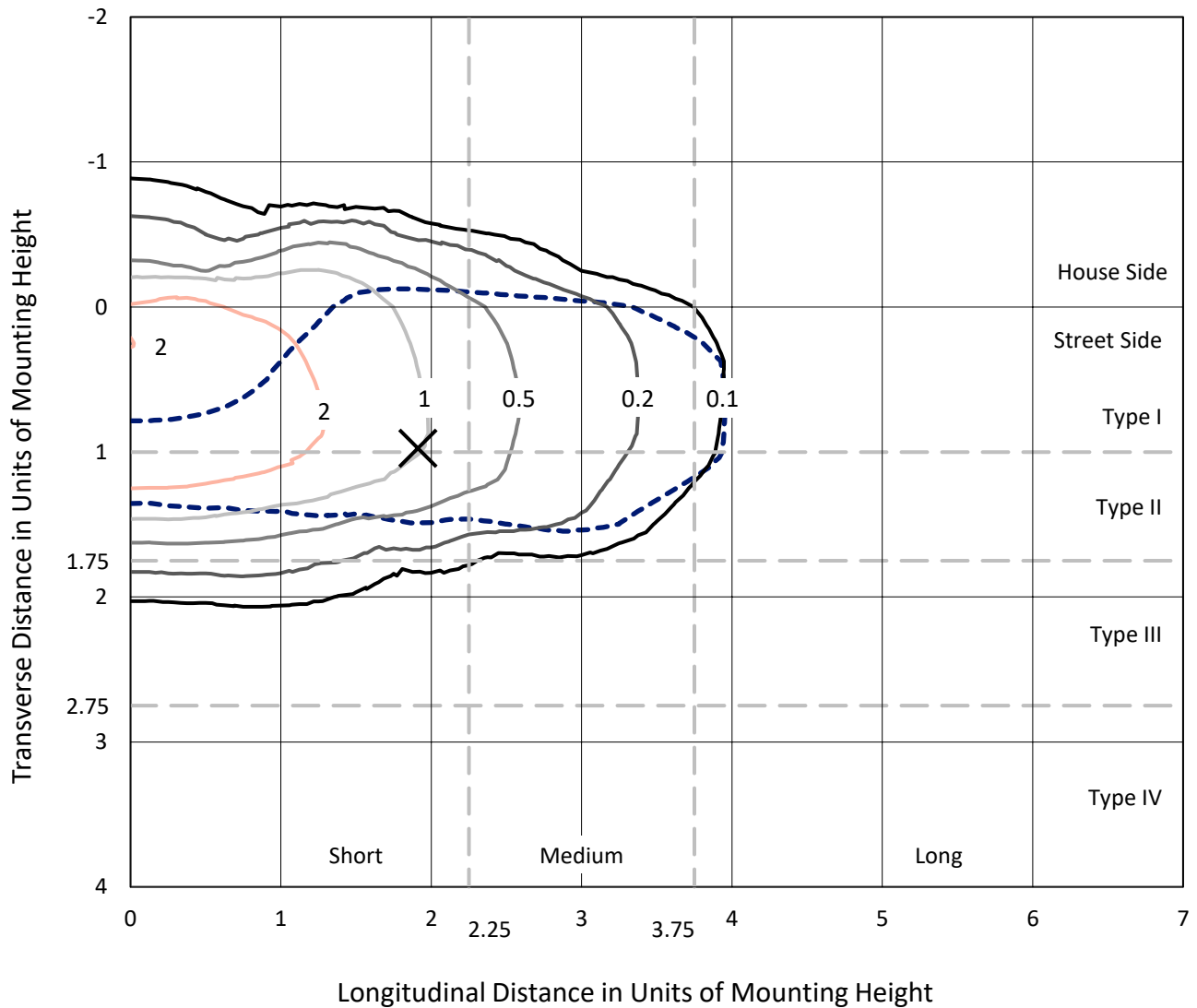
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

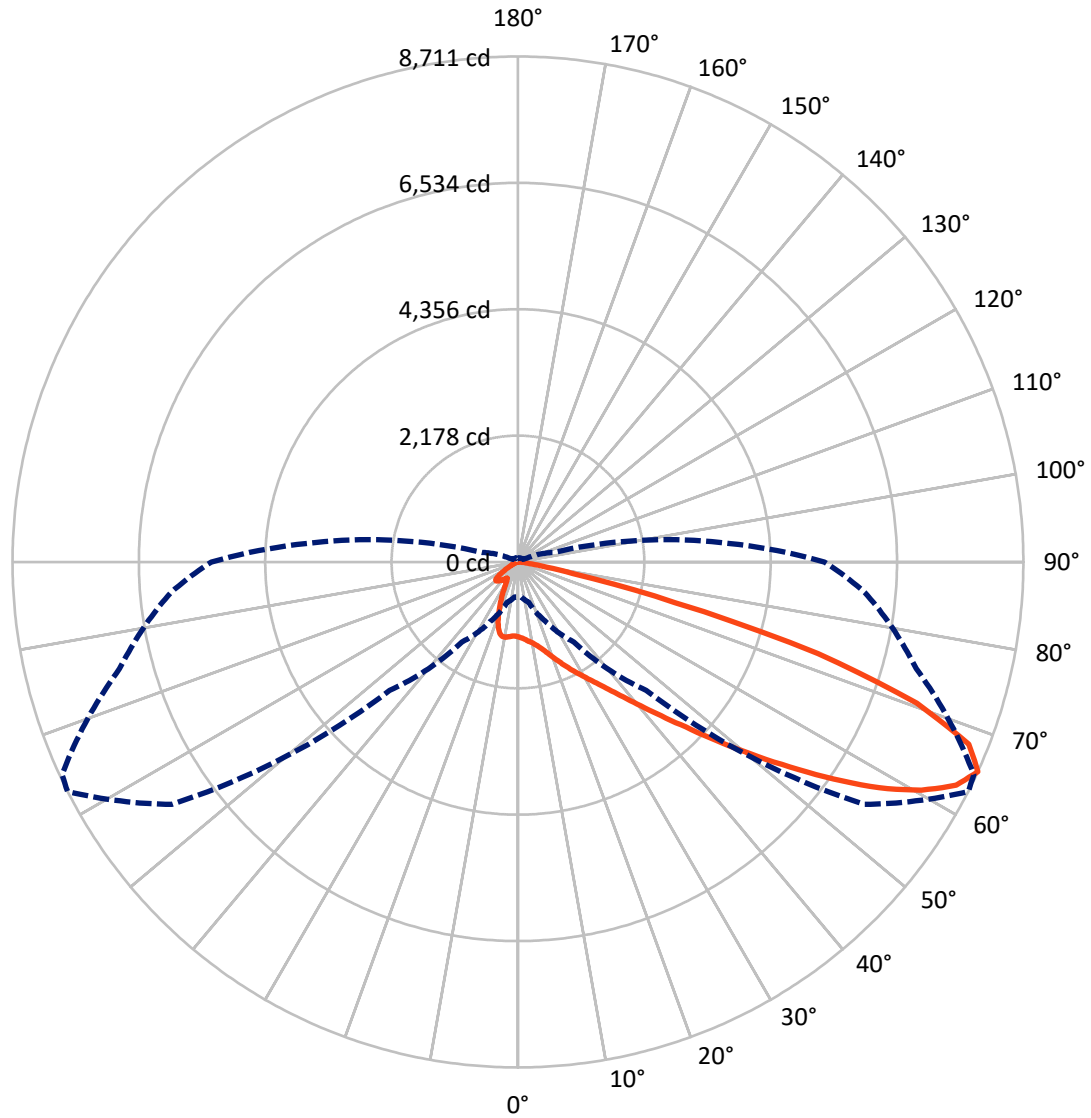
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1536.5 | 0.0 | 1536.5 |
| | % Fixture | 14.7 | 0.0 | 14.7 |
| Street Side | Lumens | 8916.5 | 0.0 | 8916.5 |
| | % Fixture | 85.3 | 0.0 | 85.3 |
| Total | Lumens | 10453.0 | 0.0 | 10453.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 121.6 | 1.2 |
| 10°-20° | 337.3 | 3.2 |
| 20°-30° | 587.3 | 5.6 |
| 30°-40° | 1058.5 | 10.1 |
| 40°-50° | 2099.3 | 20.1 |
| 50°-60° | 2859.6 | 27.4 |
| 60°-70° | 2282.5 | 21.8 |
| 70°-80° | 1032.9 | 9.9 |
| 80°-90° | 74.2 | 0.7 |
| 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° | 10453.0 | 100.0 |
| 0°-180° | 10453.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P948667

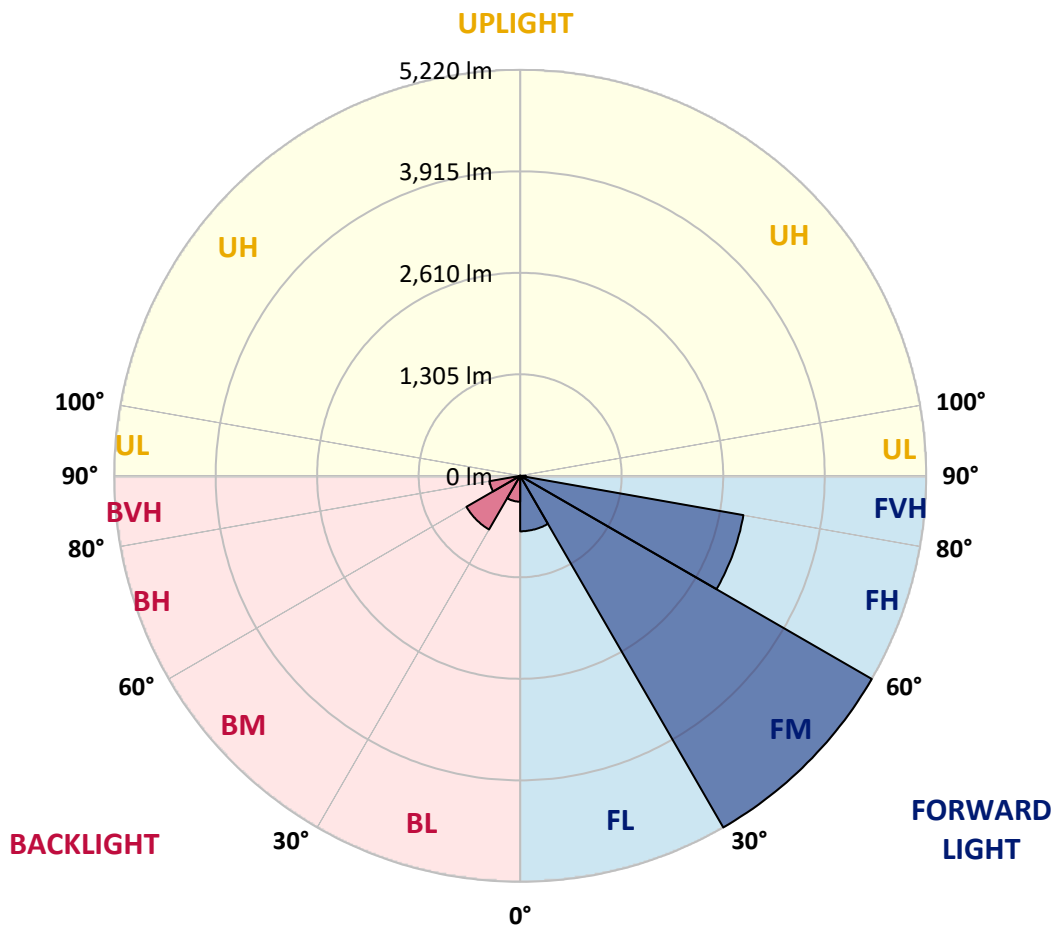
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 713.5 | 6.8 | | | |
| FM (30°-60°) | 5220.0 | 49.9 | | | |
| FH (60°-80°) | 2914.2 | 27.9 | | | G2/5000 |
| FVH (80°-90°) | 68.7 | 0.7 | | | G1/100 |
| BL (0°-30°) | 332.5 | 3.2 | B1/500 | | |
| BM (30°-60°) | 797.4 | 7.6 | B1/1000 | | |
| BH (60°-80°) | 401.1 | 3.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 5.5 | 0.1 | | | 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 Short



REPORT NUMBER: P948667

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 63° | 65° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1290.1 | 1290.1 | 1290.1 | 1290.1 | 1290.1 | 1290.1 | 1290.1 | 1290.1 | 1290.1 | 1290.1 |
| 2.5° | 1320.3 | 1316.7 | 1321.7 | 1319.6 | 1318.1 | 1315.3 | 1313.8 | 1312.4 | 1309.5 | 1307.4 |
| 5° | 1323.9 | 1321.7 | 1326.8 | 1331.1 | 1335.4 | 1339.7 | 1341.9 | 1344.8 | 1341.9 | 1336.1 |
| 7.5° | 1293.7 | 1292.3 | 1303.0 | 1316.0 | 1335.4 | 1351.9 | 1369.9 | 1380.0 | 1380.7 | 1378.5 |
| 10° | 1291.5 | 1287.9 | 1298.7 | 1314.5 | 1339.7 | 1369.2 | 1400.8 | 1422.4 | 1425.3 | 1434.6 |
| 12.5° | 1325.3 | 1321.7 | 1336.8 | 1354.1 | 1380.0 | 1410.9 | 1449.7 | 1479.9 | 1484.3 | 1497.2 |
| 15° | 1382.1 | 1377.1 | 1394.4 | 1416.7 | 1449.7 | 1485.0 | 1526.0 | 1553.3 | 1556.9 | 1572.7 |
| 17.5° | 1448.3 | 1443.3 | 1463.4 | 1487.1 | 1523.1 | 1571.3 | 1618.7 | 1648.9 | 1653.3 | 1663.3 |
| 20° | 1533.2 | 1526.7 | 1542.5 | 1564.1 | 1602.2 | 1659.7 | 1716.5 | 1759.7 | 1759.0 | 1759.0 |
| 22.5° | 1631.7 | 1621.6 | 1635.3 | 1652.5 | 1688.5 | 1758.2 | 1833.8 | 1884.8 | 1884.8 | 1864.7 |
| 25° | 1737.4 | 1727.3 | 1742.4 | 1758.2 | 1789.9 | 1869.0 | 1957.4 | 2020.7 | 2023.6 | 1989.1 |
| 27.5° | 1869.7 | 1856.8 | 1868.3 | 1887.0 | 1905.7 | 1986.2 | 2091.2 | 2164.5 | 2166.0 | 2112.8 |
| 30° | 2124.3 | 2087.6 | 2051.6 | 2031.5 | 2040.1 | 2120.0 | 2232.1 | 2313.4 | 2320.6 | 2247.2 |
| 32.5° | 2590.3 | 2583.1 | 2456.5 | 2291.1 | 2204.8 | 2263.8 | 2389.6 | 2487.4 | 2491.7 | 2397.5 |
| 35° | 3314.4 | 3305.8 | 3102.3 | 2787.3 | 2506.1 | 2456.5 | 2580.9 | 2696.7 | 2693.8 | 2587.4 |
| 37.5° | 4178.8 | 4170.9 | 3902.7 | 3481.3 | 3026.0 | 2747.7 | 2827.6 | 2949.1 | 2967.1 | 2827.6 |
| 40° | 4917.3 | 4887.8 | 4718.1 | 4311.8 | 3716.4 | 3231.0 | 3178.5 | 3259.0 | 3277.7 | 3112.3 |
| 42.5° | 5476.8 | 5451.6 | 5365.3 | 5111.5 | 4552.0 | 3945.8 | 3592.0 | 3622.9 | 3643.8 | 3445.3 |
| 45° | 5766.6 | 5760.9 | 5795.4 | 5771.6 | 5403.5 | 4823.1 | 4183.1 | 4054.4 | 4062.3 | 3814.2 |
| 47.5° | 5807.6 | 5804.7 | 5962.2 | 6185.1 | 6135.5 | 5812.6 | 4941.8 | 4592.3 | 4564.2 | 4230.6 |
| 50° | 5566.0 | 5560.2 | 5862.2 | 6280.1 | 6624.5 | 6643.9 | 5803.3 | 5198.5 | 5136.7 | 4661.3 |
| 52.5° | 4794.4 | 4792.9 | 5289.1 | 5984.5 | 6796.4 | 7371.7 | 6654.7 | 5864.4 | 5760.9 | 5117.2 |
| 55° | 3689.1 | 3715.7 | 4284.5 | 5106.5 | 6482.8 | 7721.9 | 7419.1 | 6603.7 | 6444.7 | 5576.0 |
| 57.5° | 2613.3 | 2652.1 | 3214.5 | 3946.5 | 5510.6 | 7514.8 | 7936.2 | 7344.4 | 7173.2 | 6033.4 |
| 60° | 1403.7 | 1438.2 | 2001.3 | 2875.0 | 4099.7 | 6742.5 | 8208.7 | 7987.2 | 7825.4 | 6467.7 |
| 62.5° | 836.3 | 847.8 | 1080.8 | 1856.0 | 2772.9 | 5151.0 | 8093.0 | 8477.0 | 8343.9 | 6832.3 |
| 65° | 600.5 | 602.6 | 719.8 | 1133.3 | 1683.5 | 3129.6 | 7281.1 | 8711.4 | 8670.4 | 7107.0 |
| 67.5° | 505.5 | 504.1 | 553.0 | 752.9 | 1147.0 | 1567.7 | 5580.4 | 8379.9 | 8553.9 | 7281.1 |
| 70° | 433.6 | 435.8 | 493.3 | 551.6 | 862.2 | 887.4 | 2774.4 | 7296.2 | 7667.2 | 7327.1 |
| 72.5° | 322.9 | 330.1 | 383.3 | 502.7 | 650.8 | 610.5 | 957.9 | 5409.9 | 6080.9 | 6903.5 |
| 75° | 228.0 | 231.6 | 269.7 | 422.8 | 485.4 | 444.4 | 489.0 | 2796.6 | 3656.7 | 5292.7 |
| 77.5° | 175.5 | 181.9 | 204.2 | 295.6 | 478.2 | 312.1 | 299.2 | 967.9 | 1487.1 | 3197.2 |
| 80° | 94.9 | 106.4 | 147.4 | 213.6 | 335.8 | 220.8 | 148.1 | 385.4 | 504.1 | 1495.0 |
| 82.5° | 48.9 | 54.7 | 102.8 | 153.9 | 191.3 | 192.7 | 73.4 | 160.4 | 207.8 | 461.7 |
| 85° | 19.4 | 23.7 | 69.0 | 84.9 | 98.5 | 94.9 | 33.1 | 64.7 | 74.8 | 128.0 |
| 87.5° | 4.3 | 7.2 | 25.2 | 19.4 | 18.7 | 20.1 | 7.9 | 15.1 | 14.4 | 15.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P948667
 CATALOG NUMBER: GALN-SB3C-927-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1290.1 | 0° | 1290.1 | 1290.1 | 1290.1 | 1290.1 | 1290.1 | 1290.1 | 1290.1 | 1290.1 | 1290.1 | 1290.1 |
| 1298.7 | 2.5° | 1298.0 | 1295.1 | 1287.2 | 1278.6 | 1268.5 | 1262.8 | 1259.2 | 1258.5 | 1253.4 | 1249.8 |
| 1327.5 | 5° | 1319.6 | 1316.7 | 1301.6 | 1283.6 | 1264.2 | 1249.1 | 1234.7 | 1221.8 | 1203.1 | 1199.5 |
| 1369.2 | 7.5° | 1362.7 | 1354.8 | 1330.4 | 1305.9 | 1269.2 | 1225.4 | 1172.2 | 1111.0 | 1056.4 | 1039.8 |
| 1424.6 | 10° | 1415.9 | 1405.2 | 1374.2 | 1331.1 | 1249.8 | 1130.5 | 1001.7 | 882.4 | 787.4 | 760.8 |
| 1490.0 | 12.5° | 1476.3 | 1467.0 | 1426.0 | 1346.2 | 1168.6 | 952.1 | 755.1 | 606.9 | 514.9 | 491.9 |
| 1559.8 | 15° | 1548.3 | 1534.6 | 1477.8 | 1323.2 | 1023.3 | 723.4 | 518.5 | 430.8 | 397.7 | 393.4 |
| 1639.6 | 17.5° | 1624.5 | 1602.2 | 1523.8 | 1240.5 | 827.7 | 514.2 | 400.5 | 375.4 | 361.0 | 356.7 |
| 1720.1 | 20° | 1694.2 | 1665.5 | 1551.1 | 1115.4 | 618.4 | 400.5 | 358.8 | 342.3 | 329.4 | 324.3 |
| 1800.7 | 22.5° | 1764.0 | 1723.0 | 1551.1 | 944.9 | 463.8 | 355.2 | 329.4 | 314.3 | 299.2 | 292.7 |
| 1887.0 | 25° | 1836.6 | 1782.0 | 1523.8 | 755.1 | 373.2 | 325.8 | 301.3 | 284.8 | 271.8 | 263.9 |
| 1968.9 | 27.5° | 1907.1 | 1831.6 | 1461.2 | 575.3 | 332.2 | 299.9 | 275.4 | 259.6 | 247.4 | 241.6 |
| 2058.1 | 30° | 1974.0 | 1880.5 | 1373.5 | 436.5 | 305.6 | 274.7 | 251.7 | 238.0 | 225.8 | 220.1 |
| 2173.9 | 32.5° | 2064.6 | 1942.3 | 1280.0 | 358.1 | 282.6 | 251.0 | 230.1 | 217.2 | 206.4 | 202.1 |
| 2324.2 | 35° | 2190.4 | 2033.7 | 1199.5 | 351.6 | 263.2 | 231.6 | 210.7 | 198.5 | 187.7 | 184.1 |
| 2518.4 | 37.5° | 2368.8 | 2181.1 | 1157.1 | 394.8 | 247.4 | 214.3 | 194.9 | 181.9 | 171.9 | 169.0 |
| 2765.0 | 40° | 2588.8 | 2381.0 | 1180.1 | 437.9 | 236.6 | 199.2 | 180.5 | 167.6 | 158.9 | 155.3 |
| 3048.3 | 42.5° | 2849.9 | 2627.7 | 1307.4 | 471.0 | 229.4 | 186.3 | 166.8 | 152.5 | 146.7 | 145.3 |
| 3369.8 | 45° | 3149.7 | 2898.8 | 1502.2 | 506.3 | 217.9 | 174.0 | 153.2 | 142.4 | 138.1 | 137.4 |
| 3719.3 | 47.5° | 3490.6 | 3196.5 | 1728.0 | 550.1 | 206.4 | 162.5 | 142.4 | 135.2 | 131.6 | 130.2 |
| 4083.9 | 50° | 3828.6 | 3496.4 | 1960.3 | 574.6 | 197.0 | 151.7 | 133.8 | 128.0 | 125.1 | 124.4 |
| 4469.3 | 52.5° | 4182.4 | 3804.9 | 2148.0 | 551.6 | 189.1 | 143.1 | 126.6 | 122.3 | 119.4 | 118.7 |
| 4824.6 | 55° | 4519.7 | 4054.4 | 2180.4 | 468.1 | 173.3 | 134.5 | 118.7 | 116.5 | 112.9 | 112.9 |
| 5184.8 | 57.5° | 4810.2 | 4179.5 | 1951.7 | 343.7 | 157.5 | 121.5 | 110.7 | 108.6 | 105.7 | 105.0 |
| 5509.9 | 60° | 5077.0 | 4143.6 | 1506.6 | 231.6 | 140.2 | 108.6 | 100.7 | 99.2 | 96.4 | 92.8 |
| 5792.5 | 62.5° | 5227.3 | 3985.4 | 1030.5 | 151.0 | 123.0 | 94.9 | 89.2 | 88.5 | 82.0 | 74.8 |
| 6001.8 | 65° | 5284.1 | 3660.3 | 642.9 | 110.0 | 102.8 | 81.3 | 76.9 | 75.5 | 66.2 | 58.2 |
| 6120.4 | 67.5° | 5234.5 | 3125.3 | 324.3 | 87.0 | 81.3 | 67.6 | 63.3 | 63.3 | 56.8 | 49.6 |
| 6113.2 | 70° | 5036.0 | 2342.9 | 136.6 | 69.8 | 62.6 | 51.8 | 51.8 | 54.7 | 48.2 | 40.3 |
| 5796.1 | 72.5° | 4605.2 | 1576.3 | 72.6 | 53.2 | 46.7 | 36.7 | 42.4 | 44.6 | 38.1 | 30.2 |
| 4744.0 | 75° | 3661.0 | 961.5 | 50.3 | 39.6 | 29.5 | 25.9 | 32.4 | 33.8 | 25.9 | 20.1 |
| 3252.6 | 77.5° | 2504.0 | 552.3 | 33.8 | 25.2 | 18.7 | 15.1 | 22.3 | 20.9 | 13.7 | 9.3 |
| 1254.1 | 80° | 1099.5 | 230.1 | 19.4 | 11.5 | 7.2 | 5.8 | 7.9 | 5.8 | 4.3 | 2.9 |
| 171.9 | 82.5° | 128.7 | 53.9 | 7.2 | 4.3 | 2.9 | 1.4 | 0.7 | 0.0 | 0.0 | 0.0 |
| 52.5 | 85° | 26.6 | 6.5 | 3.6 | 1.4 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 9.3 | 87.5° | 5.0 | 1.4 | 0.7 | 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> |
| 1290.1 |
| 1253.4 |
| 1198.1 |
| 1031.9 |
| 750.8 |
| 485.4 |
| 389.0 |
| 354.5 |
| 321.4 |
| 289.1 |
| 261.0 |
| 241.6 |
| 220.8 |
| 202.1 |
| 184.1 |
| 168.3 |
| 154.6 |
| 145.3 |
| 136.6 |
| 130.2 |
| 124.4 |
| 118.7 |
| 112.2 |
| 104.3 |
| 92.0 |
| 73.4 |
| 57.5 |
| 48.9 |
| 39.6 |
| 30.2 |
| 19.4 |
| 10.1 |
| 2.9 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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