

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: P940116

Luminaire Tested: **GALN-SB3A-740-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940116
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3A-740-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11167 lumens
Efficiency: N/A
Efficacy: 131.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

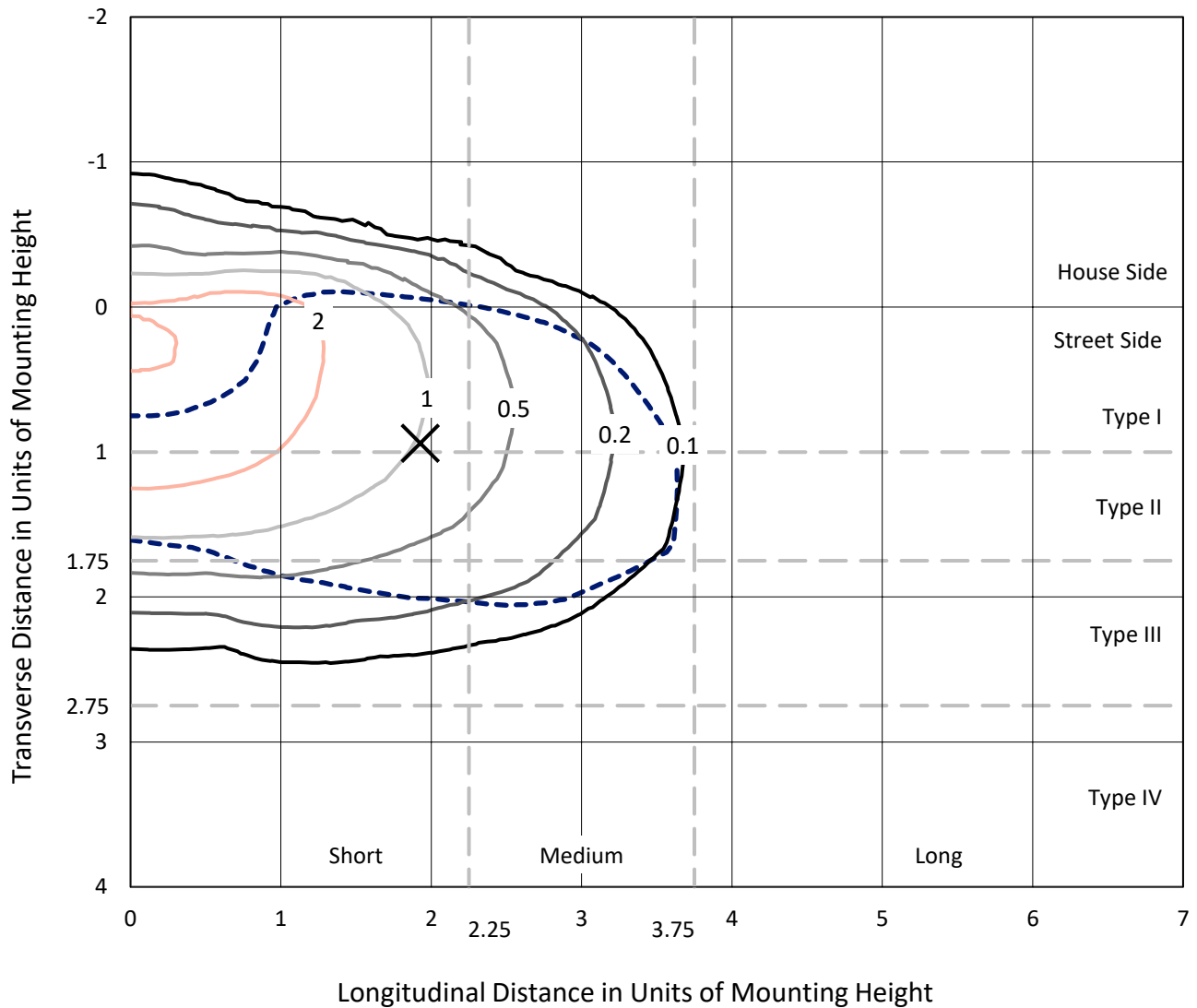
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

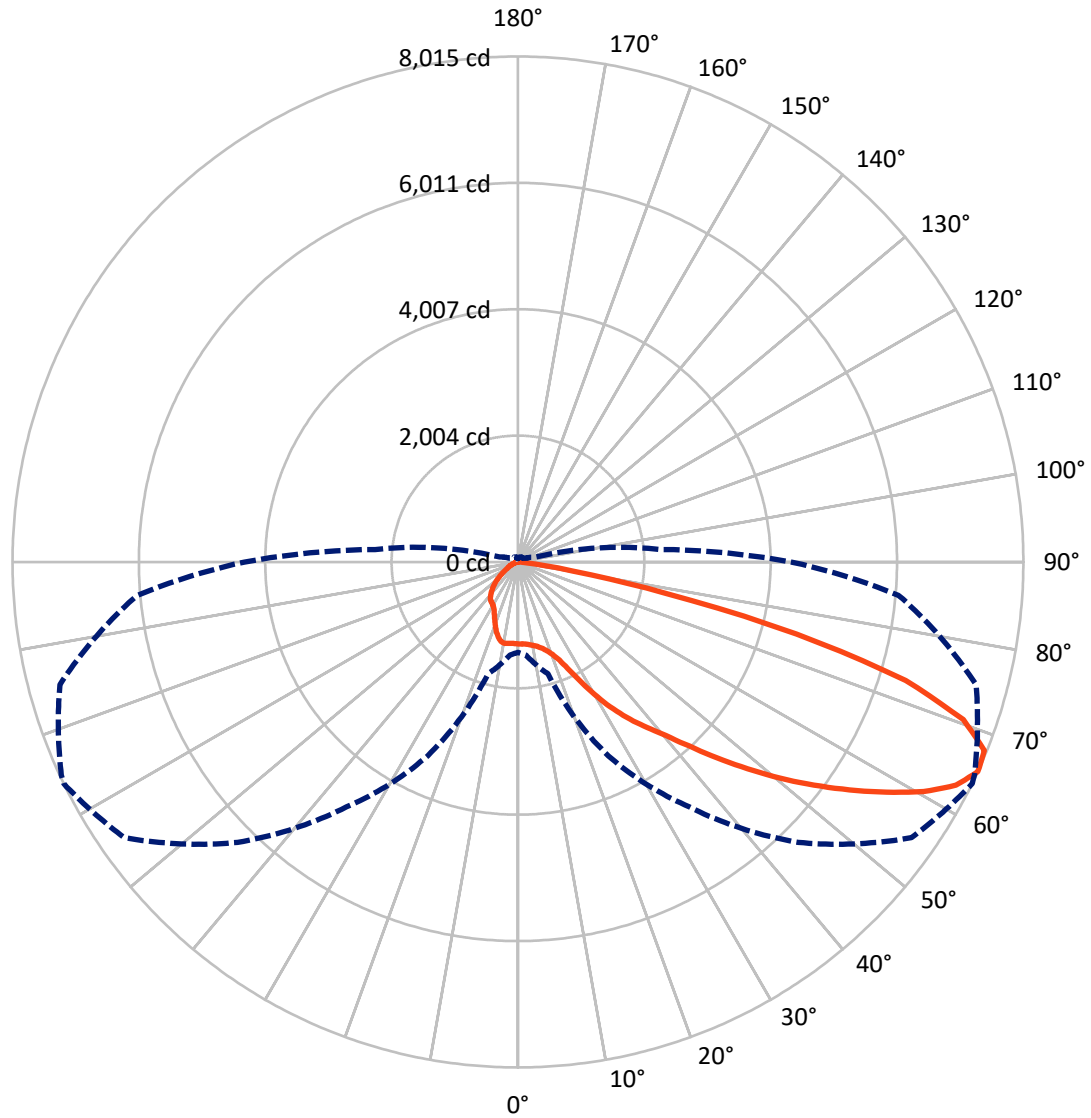
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1493.4 | 0.0 | 1493.4 |
| | % Fixture | 13.4 | 0.0 | 13.4 |
| Street Side | Lumens | 9673.6 | 0.0 | 9673.6 |
| | % Fixture | 86.6 | 0.0 | 86.6 |
| Total | Lumens | 11167.0 | 0.0 | 11167.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 119.8 | 1.1 |
| 10°-20° | 325.0 | 2.9 |
| 20°-30° | 615.9 | 5.5 |
| 30°-40° | 1246.2 | 11.2 |
| 40°-50° | 2123.0 | 19.0 |
| 50°-60° | 2887.1 | 25.9 |
| 60°-70° | 2711.1 | 24.3 |
| 70°-80° | 1086.2 | 9.7 |
| 80°-90° | 52.6 | 0.5 |
| 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° | 11167.0 | 100.0 |
| 0°-180° | 11167.0 | 100.0 |

Coefficient of Utilization



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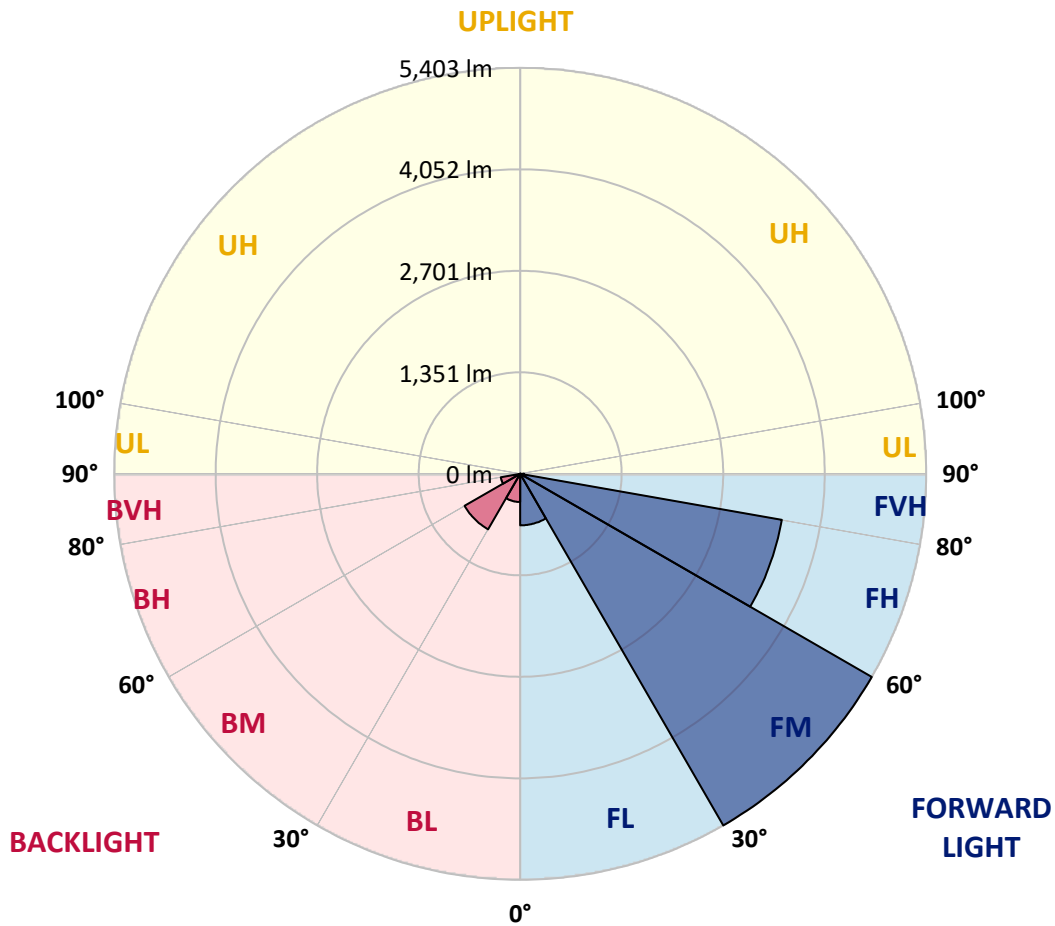
CATALOG NUMBER: GALN-SB3A-740-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 685.8 | 6.1 | | | |
| FM (30°-60°) | 5402.6 | 48.4 | | | |
| FH (60°-80°) | 3535.2 | 31.7 | | | G2/5000 |
| FVH (80°-90°) | 50.1 | 0.4 | | | G1/100 |
| BL (0°-30°) | 374.9 | 3.4 | B1/500 | | |
| BM (30°-60°) | 853.7 | 7.6 | B1/1000 | | |
| BH (60°-80°) | 262.1 | 2.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.6 | 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 III Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1298.8 | 1298.8 | 1298.8 | 1298.8 | 1298.8 | 1298.8 | 1298.8 | 1298.8 | 1298.8 | 1298.8 |
| 2.5° | 1294.3 | 1303.3 | 1301.1 | 1298.8 | 1298.1 | 1299.6 | 1300.3 | 1299.6 | 1299.6 | 1299.6 |
| 5° | 1269.6 | 1277.1 | 1277.1 | 1282.4 | 1289.9 | 1298.8 | 1305.6 | 1307.1 | 1308.6 | 1310.8 |
| 7.5° | 1222.5 | 1228.5 | 1233.0 | 1250.2 | 1268.9 | 1292.8 | 1313.1 | 1323.5 | 1325.0 | 1333.3 |
| 10° | 1190.3 | 1197.8 | 1205.3 | 1223.2 | 1250.2 | 1286.1 | 1320.5 | 1346.0 | 1349.7 | 1369.2 |
| 12.5° | 1188.8 | 1196.3 | 1206.0 | 1225.5 | 1256.9 | 1295.1 | 1337.0 | 1373.7 | 1380.4 | 1408.9 |
| 15° | 1204.5 | 1213.5 | 1222.5 | 1246.4 | 1280.1 | 1326.5 | 1371.5 | 1417.1 | 1423.9 | 1464.3 |
| 17.5° | 1236.7 | 1248.7 | 1255.4 | 1279.4 | 1315.3 | 1367.0 | 1426.1 | 1478.5 | 1484.5 | 1531.7 |
| 20° | 1300.3 | 1314.6 | 1316.8 | 1336.3 | 1371.5 | 1426.9 | 1497.2 | 1562.3 | 1569.8 | 1623.7 |
| 22.5° | 1432.1 | 1452.3 | 1434.3 | 1444.1 | 1475.5 | 1530.9 | 1607.3 | 1689.6 | 1700.1 | 1761.5 |
| 25° | 1664.2 | 1692.6 | 1646.2 | 1629.7 | 1643.2 | 1700.8 | 1796.7 | 1900.7 | 1912.7 | 1962.1 |
| 27.5° | 2120.1 | 2083.4 | 2013.0 | 1944.1 | 1903.7 | 1936.7 | 2044.5 | 2173.2 | 2188.2 | 2236.1 |
| 30° | 2620.9 | 2588.7 | 2493.6 | 2340.9 | 2245.1 | 2239.8 | 2339.4 | 2483.1 | 2500.4 | 2546.0 |
| 32.5° | 3122.5 | 3091.8 | 2988.5 | 2800.5 | 2634.4 | 2552.0 | 2620.9 | 2780.3 | 2789.3 | 2818.5 |
| 35° | 3615.8 | 3584.3 | 3481.0 | 3288.6 | 3084.3 | 2897.1 | 2883.6 | 3063.3 | 3066.3 | 3097.0 |
| 37.5° | 4112.1 | 4085.9 | 3975.9 | 3787.2 | 3585.8 | 3327.6 | 3202.6 | 3331.3 | 3335.1 | 3365.0 |
| 40° | 4466.2 | 4477.4 | 4401.8 | 4255.8 | 4082.9 | 3800.7 | 3560.4 | 3616.5 | 3594.1 | 3644.2 |
| 42.5° | 4770.1 | 4792.6 | 4726.7 | 4653.4 | 4553.0 | 4304.5 | 4003.6 | 3993.8 | 3957.9 | 3984.9 |
| 45° | 5032.9 | 5051.6 | 4992.5 | 4975.3 | 4973.0 | 4798.6 | 4487.9 | 4429.5 | 4379.4 | 4374.1 |
| 47.5° | 5129.5 | 5165.4 | 5190.9 | 5248.5 | 5360.8 | 5287.4 | 4988.7 | 4898.2 | 4842.0 | 4800.8 |
| 50° | 5166.2 | 5204.3 | 5291.2 | 5458.9 | 5724.6 | 5756.1 | 5487.3 | 5385.5 | 5316.6 | 5241.8 |
| 52.5° | 5116.7 | 5184.9 | 5301.7 | 5583.9 | 5969.4 | 6131.9 | 5965.7 | 5876.6 | 5798.0 | 5676.0 |
| 55° | 4825.5 | 4893.7 | 5132.5 | 5582.4 | 6091.4 | 6395.4 | 6417.8 | 6378.2 | 6289.8 | 6097.4 |
| 57.5° | 4211.7 | 4312.7 | 4690.8 | 5392.2 | 6089.2 | 6622.2 | 6861.0 | 6889.5 | 6790.6 | 6515.2 |
| 60° | 3361.3 | 3498.3 | 3959.4 | 4970.8 | 5901.3 | 6745.0 | 7249.5 | 7391.8 | 7287.0 | 6926.9 |
| 62.5° | 2345.4 | 2504.1 | 2940.5 | 4310.5 | 5471.6 | 6656.6 | 7533.3 | 7796.0 | 7716.7 | 7295.2 |
| 65° | 1430.6 | 1481.5 | 1833.3 | 3392.0 | 4740.9 | 6286.8 | 7620.8 | 8014.6 | 7988.4 | 7520.5 |
| 67.5° | 953.0 | 995.7 | 1096.7 | 2325.9 | 3680.2 | 5547.9 | 7411.2 | 7976.4 | 7983.9 | 7483.9 |
| 70° | 574.2 | 610.9 | 676.7 | 1352.7 | 2385.1 | 4391.3 | 6762.2 | 7489.8 | 7533.3 | 6993.5 |
| 72.5° | 236.6 | 261.3 | 321.2 | 613.1 | 1235.2 | 2787.1 | 5384.8 | 6430.6 | 6531.6 | 5880.3 |
| 75° | 134.0 | 146.7 | 188.6 | 307.7 | 536.0 | 1298.8 | 3261.7 | 4565.0 | 4714.0 | 4053.0 |
| 77.5° | 89.1 | 95.1 | 122.0 | 199.1 | 301.7 | 443.2 | 1393.9 | 2378.3 | 2662.8 | 2213.6 |
| 80° | 59.9 | 65.1 | 83.8 | 133.3 | 196.1 | 190.1 | 443.9 | 881.1 | 1084.0 | 760.6 |
| 82.5° | 40.4 | 41.2 | 59.9 | 87.6 | 124.3 | 92.1 | 131.0 | 274.0 | 344.4 | 220.1 |
| 85° | 23.2 | 22.5 | 44.2 | 50.9 | 55.4 | 38.2 | 39.7 | 82.3 | 107.8 | 92.8 |
| 87.5° | 3.0 | 4.5 | 17.2 | 13.5 | 7.5 | 8.2 | 8.2 | 14.2 | 21.0 | 22.5 |
| 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: GALN-SB3A-740-U-T3-HSS

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1298.8 | 0° | 1298.8 | 1298.8 | 1298.8 | 1298.8 | 1298.8 | 1298.8 | 1298.8 | 1298.8 | 1298.8 | 1298.8 |
| 1300.3 | 2.5° | 1300.3 | 1299.6 | 1297.3 | 1295.1 | 1289.9 | 1286.9 | 1288.4 | 1286.9 | 1286.1 | 1286.9 |
| 1310.1 | 5° | 1310.1 | 1307.8 | 1301.8 | 1294.3 | 1283.9 | 1271.1 | 1262.9 | 1250.9 | 1239.7 | 1233.0 |
| 1336.3 | 7.5° | 1336.3 | 1334.0 | 1325.8 | 1304.8 | 1271.1 | 1218.0 | 1169.3 | 1126.7 | 1094.5 | 1075.8 |
| 1378.2 | 10° | 1378.2 | 1374.4 | 1361.7 | 1315.3 | 1227.0 | 1110.9 | 1014.4 | 934.3 | 881.9 | 857.2 |
| 1427.6 | 12.5° | 1427.6 | 1423.1 | 1400.6 | 1305.6 | 1143.1 | 962.0 | 828.7 | 739.6 | 691.0 | 669.3 |
| 1484.5 | 15° | 1486.0 | 1480.0 | 1435.8 | 1259.2 | 1021.1 | 797.3 | 675.2 | 608.6 | 577.2 | 557.7 |
| 1557.1 | 17.5° | 1558.6 | 1548.1 | 1462.0 | 1189.5 | 888.6 | 671.5 | 580.9 | 530.8 | 503.1 | 484.4 |
| 1652.2 | 20° | 1652.9 | 1635.7 | 1483.0 | 1106.4 | 766.6 | 592.2 | 517.3 | 475.4 | 454.4 | 437.9 |
| 1786.9 | 22.5° | 1784.7 | 1760.0 | 1508.4 | 1016.6 | 680.5 | 537.5 | 470.1 | 439.4 | 422.2 | 403.5 |
| 1974.8 | 25° | 1947.9 | 1918.7 | 1539.9 | 933.5 | 621.3 | 490.3 | 435.7 | 410.2 | 390.0 | 368.3 |
| 2221.1 | 27.5° | 2176.2 | 2123.8 | 1577.3 | 865.4 | 570.4 | 449.9 | 404.2 | 375.8 | 352.6 | 334.6 |
| 2500.4 | 30° | 2430.7 | 2344.6 | 1610.3 | 824.2 | 524.0 | 412.5 | 363.1 | 334.6 | 312.9 | 300.2 |
| 2751.1 | 32.5° | 2671.8 | 2555.0 | 1632.0 | 806.3 | 482.1 | 369.8 | 318.2 | 287.5 | 271.0 | 267.3 |
| 2996.7 | 35° | 2899.4 | 2745.2 | 1629.7 | 789.0 | 444.7 | 327.1 | 274.0 | 242.5 | 229.8 | 232.1 |
| 3260.9 | 37.5° | 3161.4 | 2948.0 | 1614.0 | 762.1 | 414.0 | 288.2 | 235.8 | 208.1 | 196.9 | 197.6 |
| 3582.1 | 40° | 3466.1 | 3182.3 | 1604.3 | 711.2 | 380.3 | 252.3 | 204.4 | 181.9 | 173.7 | 170.7 |
| 3920.5 | 42.5° | 3791.0 | 3409.2 | 1605.8 | 653.5 | 338.4 | 220.1 | 182.7 | 163.9 | 156.5 | 154.2 |
| 4297.0 | 45° | 4117.4 | 3625.5 | 1608.0 | 593.6 | 294.2 | 195.4 | 166.9 | 151.2 | 146.7 | 143.7 |
| 4678.8 | 47.5° | 4424.3 | 3809.7 | 1566.1 | 529.3 | 250.8 | 176.7 | 154.2 | 143.7 | 140.0 | 136.2 |
| 5062.1 | 50° | 4710.3 | 3932.4 | 1465.0 | 454.4 | 216.3 | 161.7 | 144.5 | 137.0 | 133.3 | 129.5 |
| 5409.5 | 52.5° | 4932.6 | 3951.9 | 1298.1 | 377.3 | 192.4 | 150.5 | 138.5 | 131.8 | 127.3 | 123.5 |
| 5690.2 | 55° | 5031.4 | 3829.9 | 1060.8 | 305.4 | 173.7 | 140.7 | 132.5 | 125.8 | 120.5 | 116.8 |
| 5911.0 | 57.5° | 5006.0 | 3573.1 | 827.2 | 245.5 | 155.7 | 131.0 | 125.0 | 120.5 | 114.5 | 108.5 |
| 6089.9 | 60° | 4880.9 | 3229.5 | 623.6 | 204.4 | 139.2 | 120.5 | 116.8 | 113.0 | 104.8 | 95.8 |
| 6158.8 | 62.5° | 4664.6 | 2797.6 | 444.7 | 169.2 | 121.3 | 108.5 | 107.1 | 104.1 | 92.1 | 75.6 |
| 6057.0 | 65° | 4333.7 | 2272.8 | 299.4 | 140.7 | 104.1 | 95.1 | 95.8 | 90.6 | 74.9 | 56.1 |
| 5684.2 | 67.5° | 3850.1 | 1661.9 | 191.6 | 115.3 | 86.8 | 79.4 | 80.1 | 77.1 | 63.6 | 47.9 |
| 4977.5 | 70° | 3234.0 | 1100.5 | 125.0 | 87.6 | 69.6 | 61.4 | 65.9 | 66.6 | 53.9 | 38.9 |
| 3820.2 | 72.5° | 2370.8 | 649.8 | 87.6 | 65.1 | 50.9 | 42.7 | 53.9 | 55.4 | 43.4 | 29.2 |
| 2298.2 | 75° | 1351.2 | 308.4 | 65.9 | 47.2 | 31.4 | 29.9 | 41.9 | 41.9 | 29.9 | 19.5 |
| 994.9 | 77.5° | 567.4 | 128.8 | 46.4 | 30.7 | 18.0 | 17.2 | 28.4 | 26.2 | 15.0 | 9.0 |
| 242.5 | 80° | 163.9 | 57.6 | 24.7 | 15.0 | 7.5 | 6.7 | 11.2 | 8.2 | 3.7 | 1.5 |
| 92.1 | 82.5° | 64.4 | 25.5 | 9.7 | 6.0 | 3.0 | 3.0 | 1.5 | 0.0 | 0.0 | 0.0 |
| 52.4 | 85° | 38.2 | 10.5 | 4.5 | 2.2 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 11.2 | 87.5° | 9.7 | 2.2 | 1.5 | 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> |
| 1298.8 |
| 1289.9 |
| 1234.5 |
| 1076.5 |
| 854.9 |
| 667.0 |
| 558.5 |
| 482.9 |
| 434.9 |
| 400.5 |
| 366.1 |
| 330.9 |
| 297.9 |
| 269.5 |
| 232.1 |
| 200.6 |
| 169.9 |
| 153.5 |
| 143.7 |
| 136.2 |
| 129.5 |
| 122.8 |
| 116.0 |
| 107.8 |
| 94.3 |
| 74.1 |
| 54.6 |
| 45.7 |
| 37.4 |
| 27.7 |
| 18.0 |
| 9.0 |
| 1.5 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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