

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: P941586

Luminaire Tested: **GALN-SB5A-940-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941586
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-SB5A-940-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 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: 12878 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

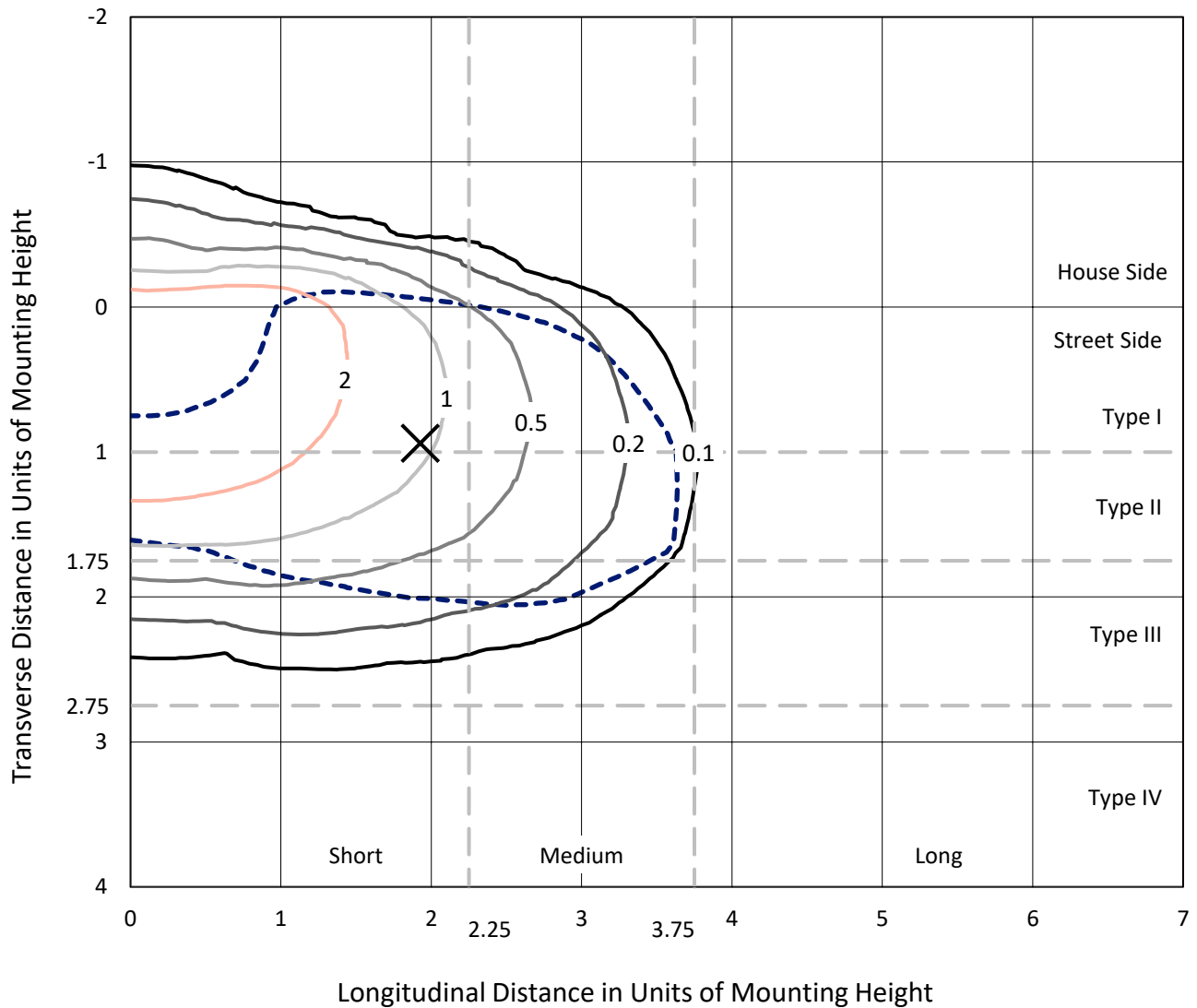
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

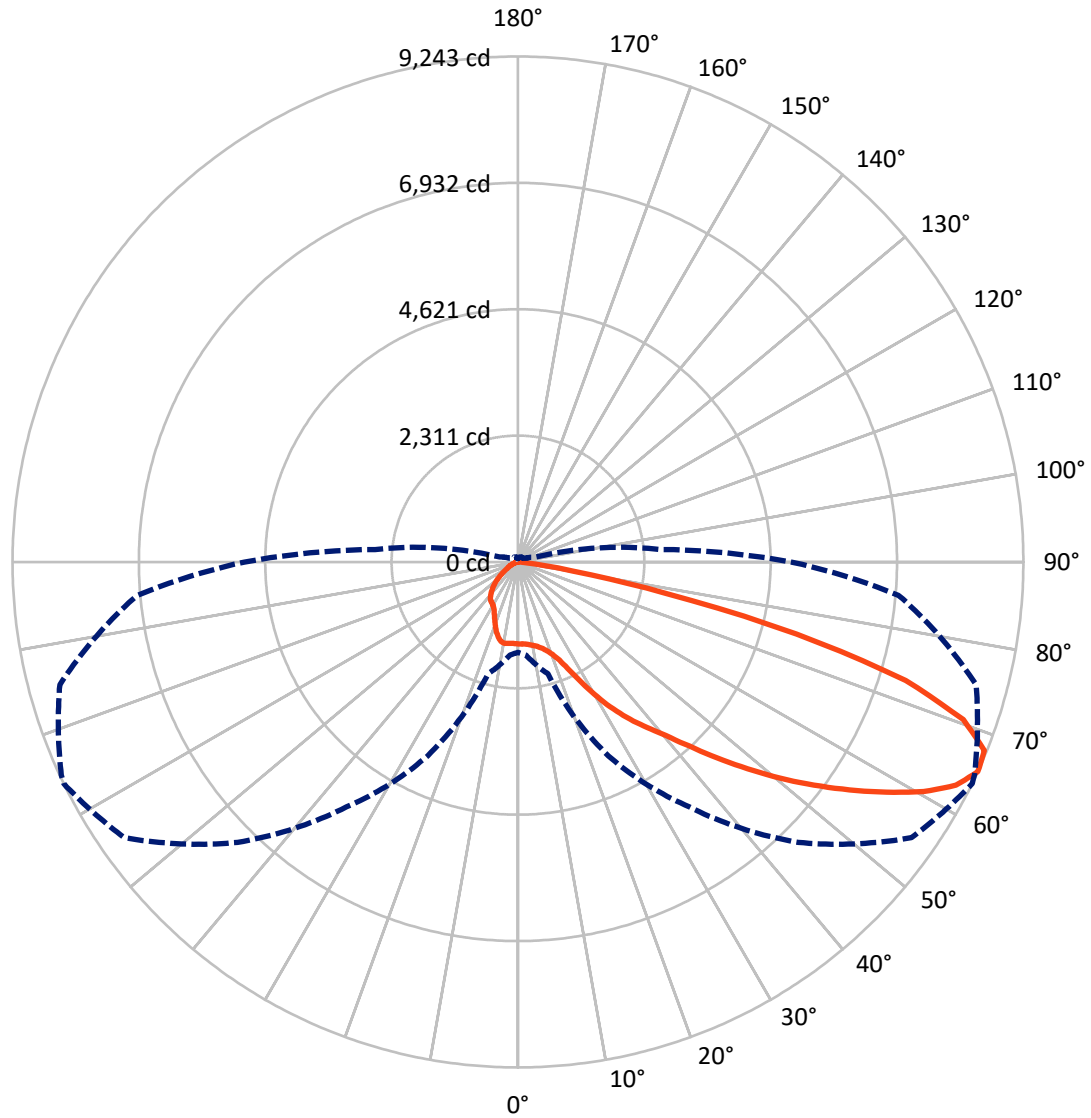
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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 | 1722.2 | 0.0 | 1722.2 |
| | % Fixture | 13.4 | 0.0 | 13.4 |
| Street Side | Lumens | 11155.8 | 0.0 | 11155.8 |
| | % Fixture | 86.6 | 0.0 | 86.6 |
| Total | Lumens | 12878.0 | 0.0 | 12878.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 138.2 | 1.1 |
| 10°-20° | 374.8 | 2.9 |
| 20°-30° | 710.2 | 5.5 |
| 30°-40° | 1437.2 | 11.2 |
| 40°-50° | 2448.3 | 19.0 |
| 50°-60° | 3329.5 | 25.9 |
| 60°-70° | 3126.5 | 24.3 |
| 70°-80° | 1252.6 | 9.7 |
| 80°-90° | 60.7 | 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° | 12878.0 | 100.0 |
| 0°-180° | 12878.0 | 100.0 |

Coefficient of Utilization



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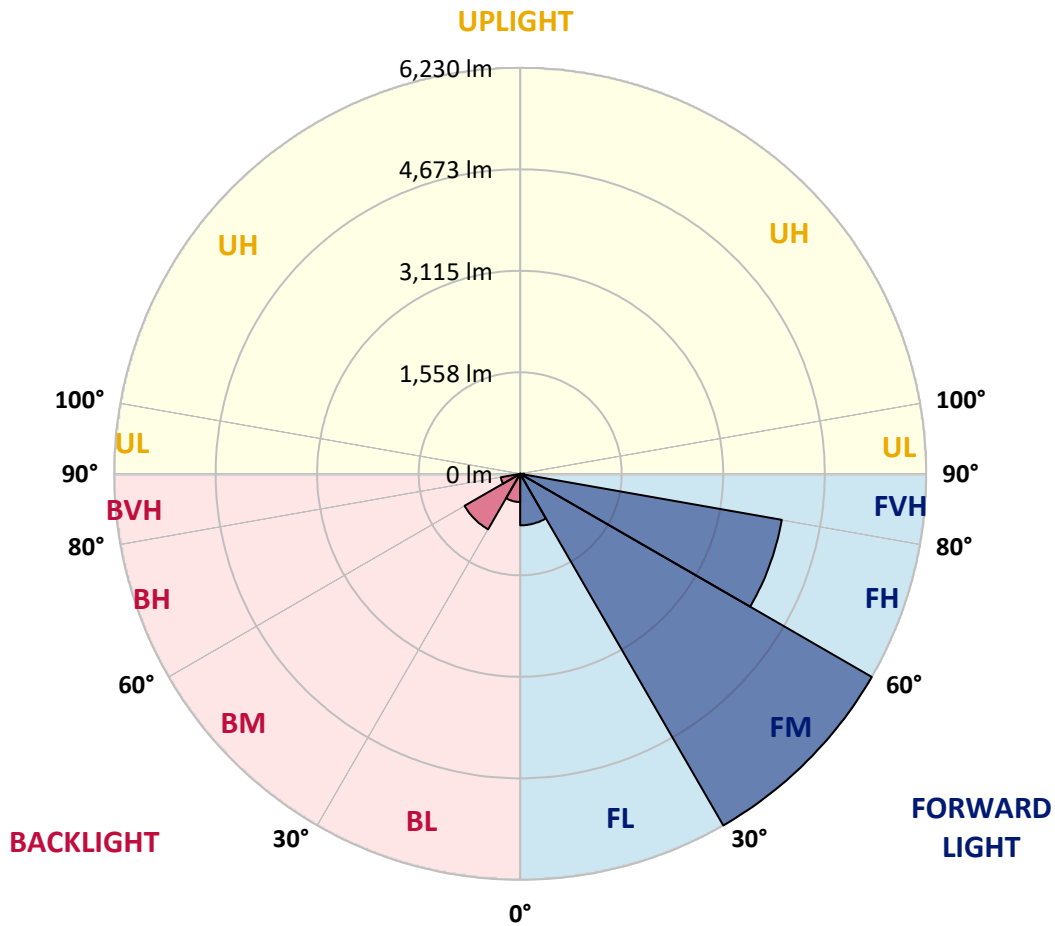
CATALOG NUMBER: GALN-SB5A-940-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 790.9 | 6.1 | | | |
| FM (30°-60°) | 6230.4 | 48.4 | | | |
| FH (60°-80°) | 4076.9 | 31.7 | | | G2/5000 |
| FVH (80°-90°) | 57.7 | 0.4 | | | G1/100 |
| BL (0°-30°) | 432.4 | 3.4 | B1/500 | | |
| BM (30°-60°) | 984.6 | 7.6 | B1/1000 | | |
| BH (60°-80°) | 302.3 | 2.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.0 | 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° | 1497.8 | 1497.8 | 1497.8 | 1497.8 | 1497.8 | 1497.8 | 1497.8 | 1497.8 | 1497.8 | 1497.8 |
| 2.5° | 1492.7 | 1503.0 | 1500.4 | 1497.8 | 1497.0 | 1498.7 | 1499.6 | 1498.7 | 1498.7 | 1498.7 |
| 5° | 1464.2 | 1472.8 | 1472.8 | 1478.9 | 1487.5 | 1497.8 | 1505.6 | 1507.3 | 1509.1 | 1511.7 |
| 7.5° | 1409.8 | 1416.7 | 1421.9 | 1441.7 | 1463.3 | 1490.9 | 1514.2 | 1526.3 | 1528.1 | 1537.6 |
| 10° | 1372.7 | 1381.3 | 1389.9 | 1410.7 | 1441.7 | 1483.2 | 1522.9 | 1552.2 | 1556.6 | 1579.0 |
| 12.5° | 1370.9 | 1379.6 | 1390.8 | 1413.2 | 1449.5 | 1493.5 | 1541.9 | 1584.2 | 1591.9 | 1624.8 |
| 15° | 1389.1 | 1399.4 | 1409.8 | 1437.4 | 1476.3 | 1529.8 | 1581.6 | 1634.2 | 1642.0 | 1688.6 |
| 17.5° | 1426.2 | 1440.0 | 1447.8 | 1475.4 | 1516.8 | 1576.4 | 1644.6 | 1705.0 | 1711.9 | 1766.3 |
| 20° | 1499.6 | 1516.0 | 1518.6 | 1541.0 | 1581.6 | 1645.5 | 1726.6 | 1801.7 | 1810.4 | 1872.5 |
| 22.5° | 1651.5 | 1674.8 | 1654.1 | 1665.3 | 1701.6 | 1765.5 | 1853.5 | 1948.5 | 1960.6 | 2031.4 |
| 25° | 1919.1 | 1951.9 | 1898.4 | 1879.4 | 1895.0 | 1961.4 | 2071.9 | 2191.9 | 2205.8 | 2262.7 |
| 27.5° | 2444.9 | 2402.6 | 2321.4 | 2242.0 | 2195.4 | 2233.4 | 2357.7 | 2506.2 | 2523.5 | 2578.7 |
| 30° | 3022.5 | 2985.3 | 2875.7 | 2699.6 | 2589.1 | 2583.0 | 2697.8 | 2863.6 | 2883.5 | 2936.1 |
| 32.5° | 3600.9 | 3565.5 | 3446.3 | 3229.6 | 3038.0 | 2943.0 | 3022.5 | 3206.3 | 3216.7 | 3250.4 |
| 35° | 4169.8 | 4133.5 | 4014.4 | 3792.5 | 3556.8 | 3341.0 | 3325.5 | 3532.7 | 3536.1 | 3571.5 |
| 37.5° | 4742.2 | 4712.0 | 4585.0 | 4367.5 | 4135.3 | 3837.4 | 3693.2 | 3841.7 | 3846.1 | 3880.6 |
| 40° | 5150.5 | 5163.5 | 5076.3 | 4907.9 | 4708.5 | 4383.0 | 4105.9 | 4170.7 | 4144.8 | 4202.6 |
| 42.5° | 5501.0 | 5526.9 | 5450.9 | 5366.3 | 5250.7 | 4964.0 | 4617.0 | 4605.8 | 4564.3 | 4595.4 |
| 45° | 5804.0 | 5825.6 | 5757.4 | 5737.6 | 5735.0 | 5533.8 | 5175.6 | 5108.2 | 5050.4 | 5044.3 |
| 47.5° | 5915.4 | 5956.8 | 5986.2 | 6052.7 | 6182.2 | 6097.6 | 5753.1 | 5648.6 | 5583.9 | 5536.4 |
| 50° | 5957.7 | 6001.7 | 6101.9 | 6295.3 | 6601.7 | 6638.0 | 6328.1 | 6210.7 | 6131.2 | 6044.9 |
| 52.5° | 5900.7 | 5979.3 | 6114.0 | 6439.4 | 6884.0 | 7071.4 | 6879.7 | 6777.0 | 6686.3 | 6545.6 |
| 55° | 5564.9 | 5643.5 | 5918.9 | 6437.7 | 7024.8 | 7375.3 | 7401.2 | 7355.4 | 7253.5 | 7031.7 |
| 57.5° | 4857.0 | 4973.5 | 5409.5 | 6218.4 | 7022.2 | 7636.9 | 7912.2 | 7945.1 | 7831.1 | 7513.4 |
| 60° | 3876.3 | 4034.3 | 4566.1 | 5732.4 | 6805.5 | 7778.4 | 8360.3 | 8524.3 | 8403.5 | 7988.2 |
| 62.5° | 2704.8 | 2887.8 | 3391.1 | 4970.9 | 6309.9 | 7676.6 | 8687.5 | 8990.5 | 8899.0 | 8413.0 |
| 65° | 1649.8 | 1708.5 | 2114.2 | 3911.7 | 5467.4 | 7250.1 | 8788.5 | 9242.6 | 9212.4 | 8672.8 |
| 67.5° | 1099.0 | 1148.2 | 1264.8 | 2682.3 | 4244.0 | 6398.0 | 8546.8 | 9198.6 | 9207.2 | 8630.5 |
| 70° | 662.2 | 704.5 | 780.4 | 1560.0 | 2750.5 | 5064.2 | 7798.3 | 8637.4 | 8687.5 | 8065.1 |
| 72.5° | 272.8 | 301.3 | 370.4 | 707.1 | 1424.5 | 3214.1 | 6209.8 | 7415.8 | 7532.4 | 6781.3 |
| 75° | 154.5 | 169.2 | 217.6 | 354.8 | 618.1 | 1497.8 | 3761.4 | 5264.5 | 5436.3 | 4674.0 |
| 77.5° | 102.7 | 109.6 | 140.7 | 229.6 | 347.9 | 511.1 | 1607.5 | 2742.7 | 3070.8 | 2552.8 |
| 80° | 69.1 | 75.1 | 96.7 | 153.7 | 226.2 | 219.3 | 511.9 | 1016.1 | 1250.1 | 877.1 |
| 82.5° | 46.6 | 47.5 | 69.1 | 101.0 | 143.3 | 106.2 | 151.1 | 316.0 | 397.1 | 253.8 |
| 85° | 26.8 | 25.9 | 50.9 | 58.7 | 63.9 | 44.0 | 45.8 | 95.0 | 124.3 | 107.1 |
| 87.5° | 3.5 | 5.2 | 19.9 | 15.5 | 8.6 | 9.5 | 9.5 | 16.4 | 24.2 | 25.9 |
| 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° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1497.8 | 0° | 1497.8 | 1497.8 | 1497.8 | 1497.8 | 1497.8 | 1497.8 | 1497.8 | 1497.8 | 1497.8 | 1497.8 |
| 1499.6 | 2.5° | 1499.6 | 1498.7 | 1496.1 | 1493.5 | 1487.5 | 1484.0 | 1485.8 | 1484.0 | 1483.2 | 1484.0 |
| 1510.8 | 5° | 1510.8 | 1508.2 | 1501.3 | 1492.7 | 1480.6 | 1465.9 | 1456.4 | 1442.6 | 1429.6 | 1421.9 |
| 1541.0 | 7.5° | 1541.0 | 1538.4 | 1528.9 | 1504.8 | 1465.9 | 1404.6 | 1348.5 | 1299.3 | 1262.2 | 1240.6 |
| 1589.4 | 10° | 1589.4 | 1585.0 | 1570.4 | 1516.8 | 1415.0 | 1281.2 | 1169.8 | 1077.4 | 1017.0 | 988.5 |
| 1646.3 | 12.5° | 1646.3 | 1641.2 | 1615.3 | 1505.6 | 1318.3 | 1109.4 | 955.7 | 853.0 | 796.8 | 771.8 |
| 1711.9 | 15° | 1713.7 | 1706.8 | 1655.8 | 1452.1 | 1177.6 | 919.4 | 778.7 | 701.9 | 665.6 | 643.2 |
| 1795.7 | 17.5° | 1797.4 | 1785.3 | 1686.0 | 1371.8 | 1024.8 | 774.4 | 669.9 | 612.1 | 580.1 | 558.6 |
| 1905.3 | 20° | 1906.2 | 1886.3 | 1710.2 | 1276.0 | 884.0 | 682.9 | 596.5 | 548.2 | 524.0 | 505.0 |
| 2060.7 | 22.5° | 2058.1 | 2029.6 | 1739.6 | 1172.4 | 784.7 | 619.9 | 542.2 | 506.8 | 486.9 | 465.3 |
| 2277.4 | 25° | 2246.3 | 2212.7 | 1775.8 | 1076.5 | 716.5 | 565.5 | 502.4 | 473.1 | 449.8 | 424.7 |
| 2561.4 | 27.5° | 2509.6 | 2449.2 | 1819.0 | 998.0 | 657.8 | 518.9 | 466.2 | 433.4 | 406.6 | 385.9 |
| 2883.5 | 30° | 2803.2 | 2703.9 | 1857.0 | 950.5 | 604.3 | 475.7 | 418.7 | 385.9 | 360.9 | 346.2 |
| 3172.7 | 32.5° | 3081.2 | 2946.5 | 1882.0 | 929.8 | 556.0 | 426.5 | 366.9 | 331.5 | 312.5 | 308.2 |
| 3455.8 | 35° | 3343.6 | 3165.8 | 1879.4 | 909.9 | 512.8 | 377.3 | 316.0 | 279.7 | 265.0 | 267.6 |
| 3760.6 | 37.5° | 3645.8 | 3399.7 | 1861.3 | 878.9 | 477.4 | 332.4 | 271.9 | 240.0 | 227.1 | 227.9 |
| 4130.9 | 40° | 3997.1 | 3669.9 | 1850.1 | 820.1 | 438.6 | 290.9 | 235.7 | 209.8 | 200.3 | 196.8 |
| 4521.2 | 42.5° | 4371.8 | 3931.5 | 1851.8 | 753.7 | 390.2 | 253.8 | 210.6 | 189.1 | 180.4 | 177.8 |
| 4955.4 | 45° | 4748.2 | 4181.0 | 1854.4 | 684.6 | 339.3 | 225.3 | 192.5 | 174.4 | 169.2 | 165.8 |
| 5395.7 | 47.5° | 5102.2 | 4393.4 | 1806.0 | 610.4 | 289.2 | 203.7 | 177.8 | 165.8 | 161.4 | 157.1 |
| 5837.7 | 50° | 5432.0 | 4535.0 | 1689.5 | 524.0 | 249.5 | 186.5 | 166.6 | 158.0 | 153.7 | 149.4 |
| 6238.3 | 52.5° | 5688.4 | 4557.4 | 1497.0 | 435.1 | 221.9 | 173.5 | 159.7 | 151.9 | 146.8 | 142.4 |
| 6562.0 | 55° | 5802.3 | 4416.7 | 1223.3 | 352.2 | 200.3 | 162.3 | 152.8 | 145.0 | 139.0 | 134.7 |
| 6816.7 | 57.5° | 5773.0 | 4120.6 | 954.0 | 283.2 | 179.6 | 151.1 | 144.2 | 139.0 | 132.1 | 125.2 |
| 7023.0 | 60° | 5628.8 | 3724.3 | 719.1 | 235.7 | 160.6 | 139.0 | 134.7 | 130.4 | 120.9 | 110.5 |
| 7102.5 | 62.5° | 5379.3 | 3226.2 | 512.8 | 195.1 | 139.9 | 125.2 | 123.5 | 120.0 | 106.2 | 87.2 |
| 6985.1 | 65° | 4997.7 | 2621.0 | 345.3 | 162.3 | 120.0 | 109.6 | 110.5 | 104.5 | 86.3 | 64.7 |
| 6555.1 | 67.5° | 4440.0 | 1916.6 | 221.0 | 132.9 | 100.1 | 91.5 | 92.4 | 88.9 | 73.4 | 55.3 |
| 5740.2 | 70° | 3729.5 | 1269.1 | 144.2 | 101.0 | 80.3 | 70.8 | 76.0 | 76.8 | 62.2 | 44.9 |
| 4405.5 | 72.5° | 2734.1 | 749.4 | 101.0 | 75.1 | 58.7 | 49.2 | 62.2 | 63.9 | 50.1 | 33.7 |
| 2650.4 | 75° | 1558.3 | 355.7 | 76.0 | 54.4 | 36.3 | 34.5 | 48.3 | 48.3 | 34.5 | 22.4 |
| 1147.3 | 77.5° | 654.4 | 148.5 | 53.5 | 35.4 | 20.7 | 19.9 | 32.8 | 30.2 | 17.3 | 10.4 |
| 279.7 | 80° | 189.1 | 66.5 | 28.5 | 17.3 | 8.6 | 7.8 | 12.9 | 9.5 | 4.3 | 1.7 |
| 106.2 | 82.5° | 74.2 | 29.4 | 11.2 | 6.9 | 3.5 | 3.5 | 1.7 | 0.0 | 0.0 | 0.0 |
| 60.4 | 85° | 44.0 | 12.1 | 5.2 | 2.6 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 12.9 | 87.5° | 11.2 | 2.6 | 1.7 | 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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|--------|
| 180° |
| 1497.8 |
| 1487.5 |
| 1423.6 |
| 1241.4 |
| 985.9 |
| 769.2 |
| 644.0 |
| 556.8 |
| 501.6 |
| 461.9 |
| 422.2 |
| 381.6 |
| 343.6 |
| 310.8 |
| 267.6 |
| 231.4 |
| 196.0 |
| 177.0 |
| 165.8 |
| 157.1 |
| 149.4 |
| 141.6 |
| 133.8 |
| 124.3 |
| 108.8 |
| 85.5 |
| 63.0 |
| 52.7 |
| 43.2 |
| 31.9 |
| 20.7 |
| 10.4 |
| 1.7 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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