

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: P949078

Luminaire Tested: **GALN-SB3D-940-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949078
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3D-940-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21991 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

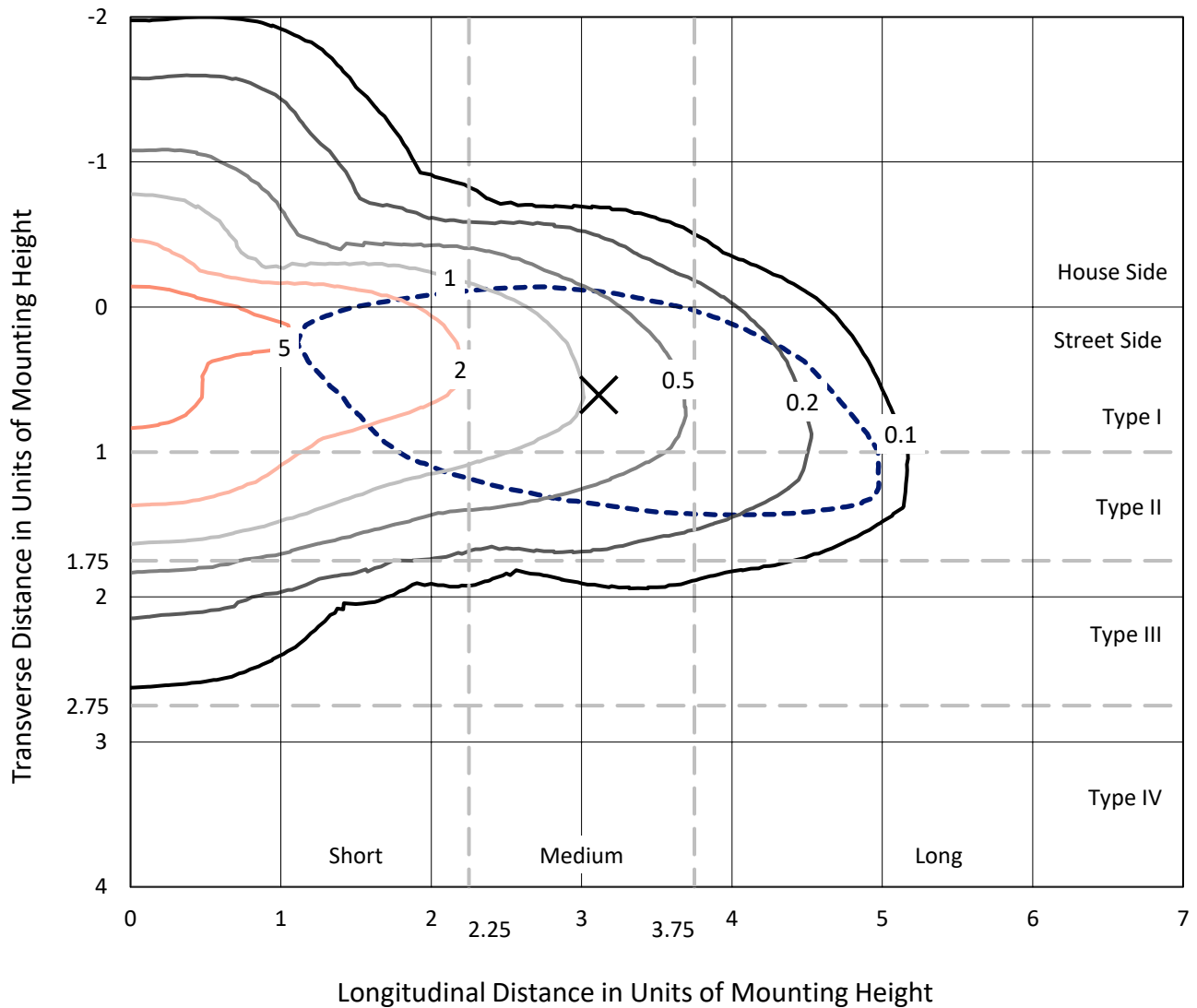
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

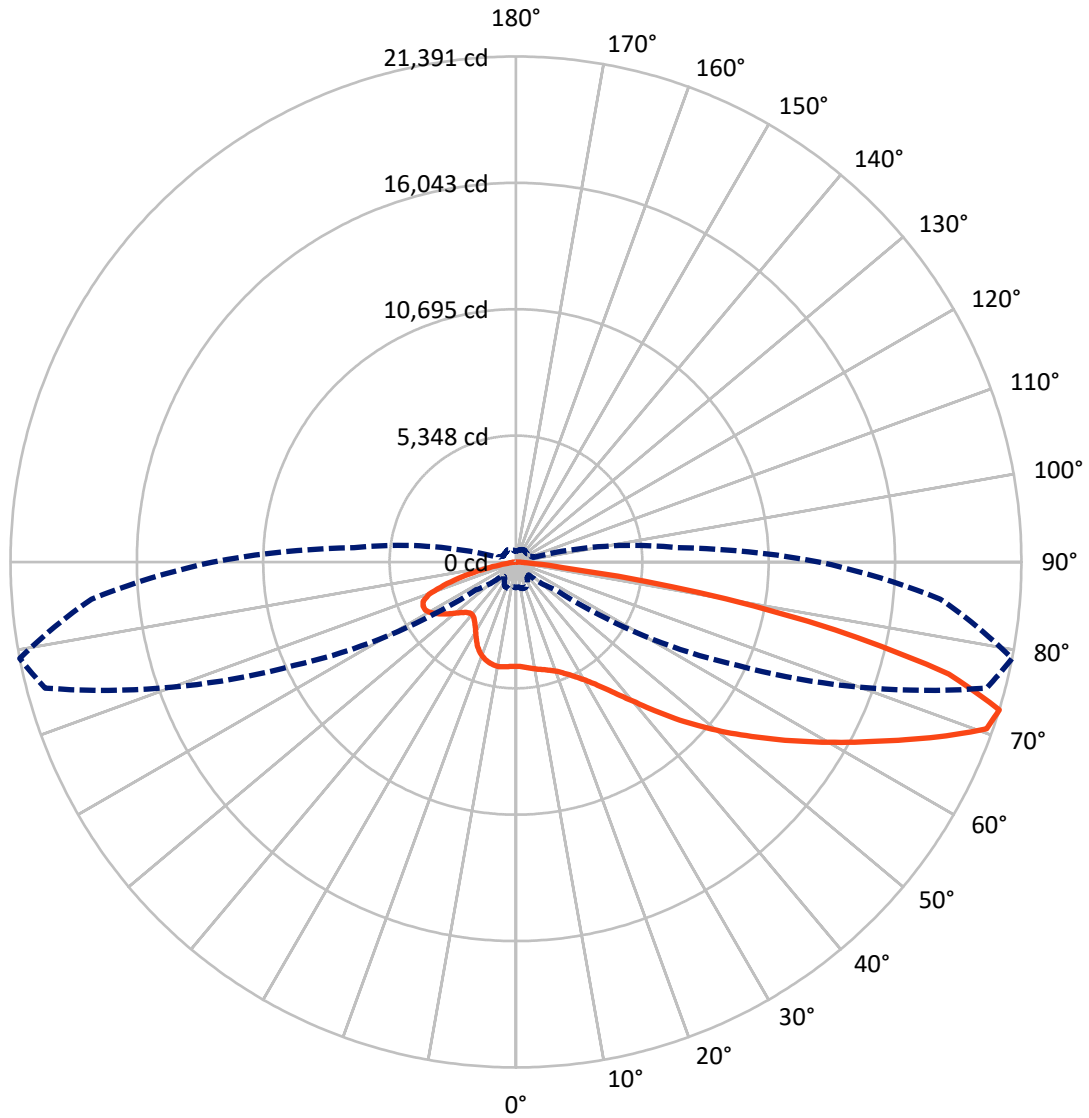
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4839.2 | 0.0 | 4839.2 |
| | % Fixture | 22.0 | 0.0 | 22.0 |
| Street Side | Lumens | 17151.8 | 0.0 | 17151.8 |
| | % Fixture | 78.0 | 0.0 | 78.0 |
| Total | Lumens | 21991.0 | 0.0 | 21991.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 400.7 | 1.8 |
| 10°-20° | 1047.7 | 4.8 |
| 20°-30° | 1690.5 | 7.7 |
| 30°-40° | 2537.2 | 11.5 |
| 40°-50° | 3599.1 | 16.4 |
| 50°-60° | 4545.2 | 20.7 |
| 60°-70° | 4616.3 | 21.0 |
| 70°-80° | 3146.2 | 14.3 |
| 80°-90° | 408.2 | 1.9 |
| 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° | 21991.0 | 100.0 |
| 0°-180° | 21991.0 | 100.0 |



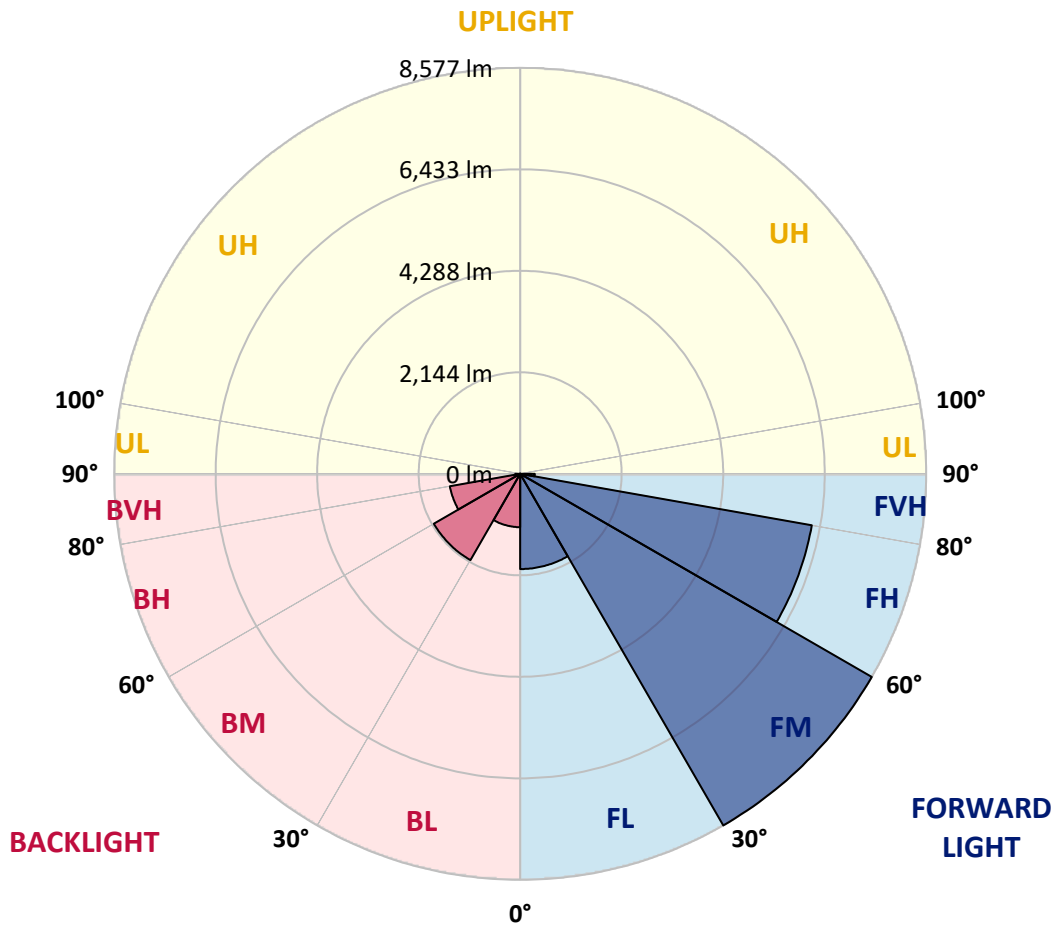
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2011.6 | 9.1 | | | |
| FM (30°-60°) | 8576.9 | 39.0 | | | |
| FH (60°-80°) | 6255.7 | 28.4 | | | G3/7500 |
| FVH (80°-90°) | 307.5 | 1.4 | | | G3/500 |
| BL (0°-30°) | 1127.2 | 5.1 | B3/2500 | | |
| BM (30°-60°) | 2104.6 | 9.6 | B2/2500 | | |
| BH (60°-80°) | 1506.8 | 6.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 100.7 | 0.5 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 79° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 4414.5 | 4414.5 | 4414.5 | 4414.5 | 4414.5 | 4414.5 | 4414.5 | 4414.5 | 4414.5 | 4414.5 |
| 2.5° | 4416.8 | 4395.9 | 4408.7 | 4404.0 | 4409.8 | 4416.8 | 4419.1 | 4422.6 | 4434.3 | 4433.1 |
| 5° | 4407.5 | 4386.6 | 4404.0 | 4398.2 | 4413.3 | 4429.6 | 4443.6 | 4456.4 | 4475.0 | 4483.1 |
| 7.5° | 4387.7 | 4373.8 | 4391.2 | 4408.7 | 4436.6 | 4461.0 | 4480.8 | 4509.9 | 4536.6 | 4541.3 |
| 10° | 4272.6 | 4262.1 | 4302.8 | 4348.2 | 4425.0 | 4491.3 | 4534.3 | 4568.0 | 4597.1 | 4601.8 |
| 12.5° | 4152.8 | 4140.0 | 4185.3 | 4247.0 | 4371.4 | 4491.3 | 4582.0 | 4626.2 | 4651.8 | 4666.9 |
| 15° | 4133.0 | 4122.5 | 4148.1 | 4201.6 | 4305.1 | 4459.9 | 4614.6 | 4696.0 | 4718.1 | 4735.5 |
| 17.5° | 4228.4 | 4208.6 | 4219.1 | 4237.7 | 4298.2 | 4430.8 | 4640.2 | 4775.1 | 4808.8 | 4827.4 |
| 20° | 4449.4 | 4421.5 | 4405.2 | 4368.0 | 4357.5 | 4435.4 | 4637.8 | 4870.5 | 4914.7 | 4937.9 |
| 22.5° | 4743.7 | 4725.1 | 4690.2 | 4595.9 | 4493.6 | 4492.4 | 4682.0 | 4992.6 | 5075.2 | 5097.3 |
| 25° | 5099.6 | 5071.7 | 5027.5 | 4899.6 | 4703.0 | 4605.3 | 4756.5 | 5148.5 | 5286.9 | 5292.7 |
| 27.5° | 5509.1 | 5467.2 | 5406.7 | 5238.1 | 4972.8 | 4782.1 | 4870.5 | 5327.6 | 5530.0 | 5527.7 |
| 30° | 5940.7 | 5898.8 | 5834.8 | 5630.1 | 5296.2 | 5020.5 | 5028.7 | 5520.7 | 5818.5 | 5805.7 |
| 32.5° | 6255.9 | 6224.5 | 6211.7 | 6053.5 | 5668.5 | 5302.0 | 5210.1 | 5734.8 | 6174.5 | 6162.8 |
| 35° | 6497.8 | 6457.1 | 6472.3 | 6392.0 | 6074.4 | 5617.3 | 5432.3 | 5989.5 | 6607.2 | 6606.0 |
| 37.5° | 6737.5 | 6701.4 | 6714.2 | 6660.7 | 6450.1 | 6017.4 | 5703.4 | 6301.3 | 7143.4 | 7169.0 |
| 40° | 6956.2 | 6917.8 | 6969.0 | 6918.9 | 6742.1 | 6443.2 | 6011.6 | 6653.7 | 7764.6 | 7813.5 |
| 42.5° | 7087.6 | 7057.4 | 7142.3 | 7143.4 | 6995.7 | 6802.6 | 6350.1 | 7042.2 | 8483.5 | 8592.8 |
| 45° | 7133.0 | 7122.5 | 7250.5 | 7277.2 | 7220.2 | 7010.8 | 6654.9 | 7465.7 | 9258.2 | 9453.6 |
| 47.5° | 7084.1 | 7064.3 | 7241.1 | 7340.0 | 7385.4 | 7108.5 | 6907.3 | 7924.0 | 10049.2 | 10335.4 |
| 50° | 6837.5 | 6799.1 | 7062.0 | 7270.2 | 7431.9 | 7172.5 | 7162.0 | 8453.2 | 10948.4 | 11261.3 |
| 52.5° | 6394.3 | 6365.2 | 6664.2 | 7026.0 | 7329.6 | 7203.9 | 7448.2 | 9031.4 | 11802.2 | 12207.0 |
| 55° | 5827.8 | 5789.4 | 6118.6 | 6590.9 | 7074.8 | 7193.5 | 7734.4 | 9678.1 | 12809.6 | 13220.2 |
| 57.5° | 4929.8 | 4853.0 | 5269.5 | 5827.8 | 6659.5 | 7180.7 | 8032.2 | 10321.4 | 13833.2 | 14325.3 |
| 60° | 3620.0 | 3506.0 | 4016.7 | 4678.5 | 5847.6 | 7056.2 | 8400.9 | 11042.6 | 15061.6 | 15504.8 |
| 62.5° | 2107.8 | 2041.5 | 2375.3 | 2993.0 | 4407.5 | 6323.4 | 8608.0 | 11881.3 | 16269.0 | 16734.3 |
| 65° | 1636.7 | 1618.1 | 1647.1 | 1694.8 | 2453.3 | 4734.4 | 7969.3 | 12699.1 | 17804.5 | 18130.2 |
| 67.5° | 1497.1 | 1483.1 | 1495.9 | 1406.4 | 1244.7 | 2637.1 | 6304.7 | 12906.1 | 19449.3 | 19647.1 |
| 70° | 1330.7 | 1314.5 | 1356.3 | 1279.6 | 979.4 | 1199.3 | 4073.7 | 12154.7 | 20758.0 | 21129.0 |
| 72.5° | 1084.1 | 1065.5 | 1163.2 | 1128.3 | 824.7 | 770.1 | 2046.1 | 10369.1 | 20620.7 | 21390.8 |
| 75° | 832.9 | 822.4 | 938.7 | 967.8 | 672.4 | 606.0 | 981.8 | 7707.6 | 18146.5 | 18922.4 |
| 77.5° | 646.8 | 638.6 | 697.9 | 803.8 | 542.1 | 469.9 | 603.7 | 4889.1 | 13675.0 | 13811.1 |
| 80° | 485.1 | 461.8 | 516.5 | 622.3 | 422.3 | 343.2 | 409.5 | 2851.1 | 8644.0 | 7835.6 |
| 82.5° | 303.6 | 292.0 | 337.3 | 415.3 | 297.8 | 236.1 | 266.4 | 1575.0 | 3464.1 | 2040.3 |
| 85° | 173.3 | 168.7 | 183.8 | 237.3 | 161.7 | 136.1 | 152.4 | 695.6 | 632.8 | 435.1 |
| 87.5° | 69.8 | 67.5 | 83.8 | 105.9 | 59.3 | 50.0 | 53.5 | 167.5 | 139.6 | 129.1 |
| 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-SB3D-940-U-SL2

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4414.5 | 0° | 4414.5 | 4414.5 | 4414.5 | 4414.5 | 4414.5 | 4414.5 | 4414.5 | 4414.5 | 4414.5 | 4414.5 |
| 4431.9 | 2.5° | 4427.3 | 4427.3 | 4411.0 | 4385.4 | 4356.3 | 4337.7 | 4307.5 | 4299.3 | 4267.9 | 4258.6 |
| 4471.5 | 5° | 4480.8 | 4471.5 | 4421.5 | 4349.3 | 4250.5 | 4159.7 | 4059.7 | 3996.9 | 3908.5 | 3877.1 |
| 4549.4 | 7.5° | 4548.3 | 4522.7 | 4436.6 | 4278.4 | 4071.3 | 3867.8 | 3656.1 | 3495.5 | 3342.0 | 3287.3 |
| 4613.4 | 10° | 4609.9 | 4573.8 | 4427.3 | 4150.4 | 3792.2 | 3439.7 | 3102.4 | 2866.2 | 2687.1 | 2613.8 |
| 4684.4 | 12.5° | 4671.6 | 4605.3 | 4365.6 | 3937.6 | 3395.5 | 2917.4 | 2558.0 | 2374.2 | 2263.7 | 2175.3 |
| 4742.5 | 15° | 4729.7 | 4636.7 | 4270.2 | 3652.6 | 2960.4 | 2475.4 | 2210.2 | 2063.6 | 1975.2 | 1917.0 |
| 4827.4 | 17.5° | 4797.2 | 4663.4 | 4127.2 | 3290.8 | 2546.3 | 2169.4 | 1953.1 | 1864.7 | 1847.2 | 1840.2 |
| 4943.8 | 20° | 4891.4 | 4687.8 | 3938.7 | 2886.0 | 2241.6 | 1925.2 | 1813.5 | 1805.3 | 1804.2 | 1800.7 |
| 5083.3 | 22.5° | 4992.6 | 4716.9 | 3689.8 | 2518.4 | 1982.2 | 1772.8 | 1753.0 | 1736.7 | 1726.2 | 1725.1 |
| 5252.0 | 25° | 5112.4 | 4726.2 | 3378.0 | 2217.1 | 1761.1 | 1700.7 | 1677.4 | 1653.0 | 1646.0 | 1646.0 |
| 5443.9 | 27.5° | 5228.8 | 4694.8 | 3015.1 | 1955.4 | 1636.7 | 1634.3 | 1604.1 | 1596.0 | 1594.8 | 1598.3 |
| 5662.6 | 30° | 5345.1 | 4635.5 | 2654.5 | 1713.4 | 1564.6 | 1564.6 | 1554.1 | 1559.9 | 1564.6 | 1576.2 |
| 5962.8 | 32.5° | 5502.1 | 4572.7 | 2353.2 | 1534.3 | 1501.7 | 1490.1 | 1500.6 | 1512.2 | 1516.9 | 1532.0 |
| 6357.1 | 35° | 5732.4 | 4528.5 | 2113.6 | 1436.6 | 1436.6 | 1421.5 | 1427.3 | 1425.0 | 1414.5 | 1407.5 |
| 6834.0 | 37.5° | 6037.2 | 4526.2 | 1915.9 | 1391.2 | 1381.9 | 1379.6 | 1380.8 | 1365.6 | 1324.9 | 1276.1 |
| 7411.0 | 40° | 6403.6 | 4589.0 | 1763.5 | 1359.8 | 1352.8 | 1366.8 | 1359.8 | 1319.1 | 1207.4 | 1122.5 |
| 8120.6 | 42.5° | 6895.7 | 4768.1 | 1665.8 | 1321.4 | 1342.4 | 1359.8 | 1331.9 | 1191.2 | 1115.5 | 1058.5 |
| 8929.0 | 45° | 7475.0 | 5058.9 | 1615.7 | 1280.7 | 1322.6 | 1343.5 | 1208.6 | 1147.0 | 1086.5 | 1017.8 |
| 9810.7 | 47.5° | 8131.0 | 5425.3 | 1604.1 | 1242.3 | 1278.4 | 1291.2 | 1156.3 | 1128.3 | 1059.7 | 985.3 |
| 10697.1 | 50° | 8845.3 | 5859.2 | 1635.5 | 1197.0 | 1214.4 | 1170.2 | 1138.8 | 1113.2 | 1042.3 | 969.0 |
| 11605.6 | 52.5° | 9583.9 | 6337.3 | 1698.3 | 1135.3 | 1150.4 | 1101.6 | 1131.8 | 1109.7 | 1031.8 | 932.9 |
| 12544.3 | 55° | 10309.8 | 6818.9 | 1758.8 | 1063.2 | 1085.3 | 1039.9 | 1112.1 | 1095.8 | 984.1 | 872.4 |
| 13545.9 | 57.5° | 11047.3 | 7298.1 | 1818.1 | 999.2 | 1022.5 | 980.6 | 1080.6 | 1058.5 | 930.6 | 816.6 |
| 14639.3 | 60° | 11813.8 | 7763.4 | 1846.1 | 937.6 | 953.9 | 925.9 | 1033.0 | 994.6 | 870.1 | 759.6 |
| 15714.2 | 62.5° | 12531.6 | 8150.8 | 1800.7 | 875.9 | 886.4 | 874.8 | 970.1 | 919.0 | 809.6 | 695.6 |
| 16834.4 | 65° | 13251.6 | 8381.1 | 1661.1 | 815.4 | 817.8 | 811.9 | 881.7 | 837.5 | 738.7 | 639.8 |
| 17815.0 | 67.5° | 13904.2 | 8510.2 | 1438.9 | 750.3 | 744.5 | 742.1 | 799.1 | 749.1 | 670.0 | 583.9 |
| 18560.6 | 70° | 14042.6 | 8182.2 | 1099.3 | 673.5 | 673.5 | 667.7 | 708.4 | 657.2 | 594.4 | 524.6 |
| 18026.7 | 72.5° | 12825.9 | 6882.9 | 780.5 | 586.3 | 595.6 | 583.9 | 617.7 | 574.6 | 517.6 | 471.1 |
| 15536.2 | 75° | 10342.3 | 5047.3 | 567.7 | 496.7 | 513.0 | 493.2 | 524.6 | 494.4 | 445.5 | 444.4 |
| 10706.4 | 77.5° | 7106.2 | 3121.0 | 411.8 | 409.5 | 421.1 | 395.5 | 431.6 | 415.3 | 371.1 | 351.3 |
| 4659.9 | 80° | 3032.6 | 1244.7 | 300.1 | 316.4 | 316.4 | 293.1 | 335.0 | 339.7 | 301.3 | 292.0 |
| 899.2 | 82.5° | 603.7 | 353.6 | 210.5 | 217.5 | 204.7 | 197.8 | 237.3 | 262.9 | 362.9 | 403.6 |
| 271.0 | 85° | 181.5 | 130.3 | 126.8 | 118.7 | 104.7 | 105.9 | 139.6 | 264.1 | 325.7 | 186.1 |
| 89.6 | 87.5° | 50.0 | 32.6 | 33.7 | 26.8 | 22.1 | 29.1 | 47.7 | 200.1 | 109.3 | 46.5 |
| 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> |
|-------------|
| 4414.5 |
| 4273.7 |
| 3900.3 |
| 3294.3 |
| 2630.1 |
| 2204.3 |
| 1927.5 |
| 1844.9 |
| 1812.3 |
| 1737.9 |
| 1653.0 |
| 1607.6 |
| 1584.3 |
| 1544.8 |
| 1423.8 |
| 1277.2 |
| 1120.2 |
| 1056.2 |
| 1013.2 |
| 979.4 |
| 960.8 |
| 925.9 |
| 866.6 |
| 814.3 |
| 756.1 |
| 694.5 |
| 632.8 |
| 577.0 |
| 522.3 |
| 457.2 |
| 400.2 |
| 329.2 |
| 292.0 |
| 404.8 |
| 160.5 |
| 39.6 |
| 0.0 |

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