

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: P951052

Luminaire Tested: **GALN-SB5B-827-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951052
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-SB5B-827-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24585 lumens
Efficiency: N/A
Efficacy: 134.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

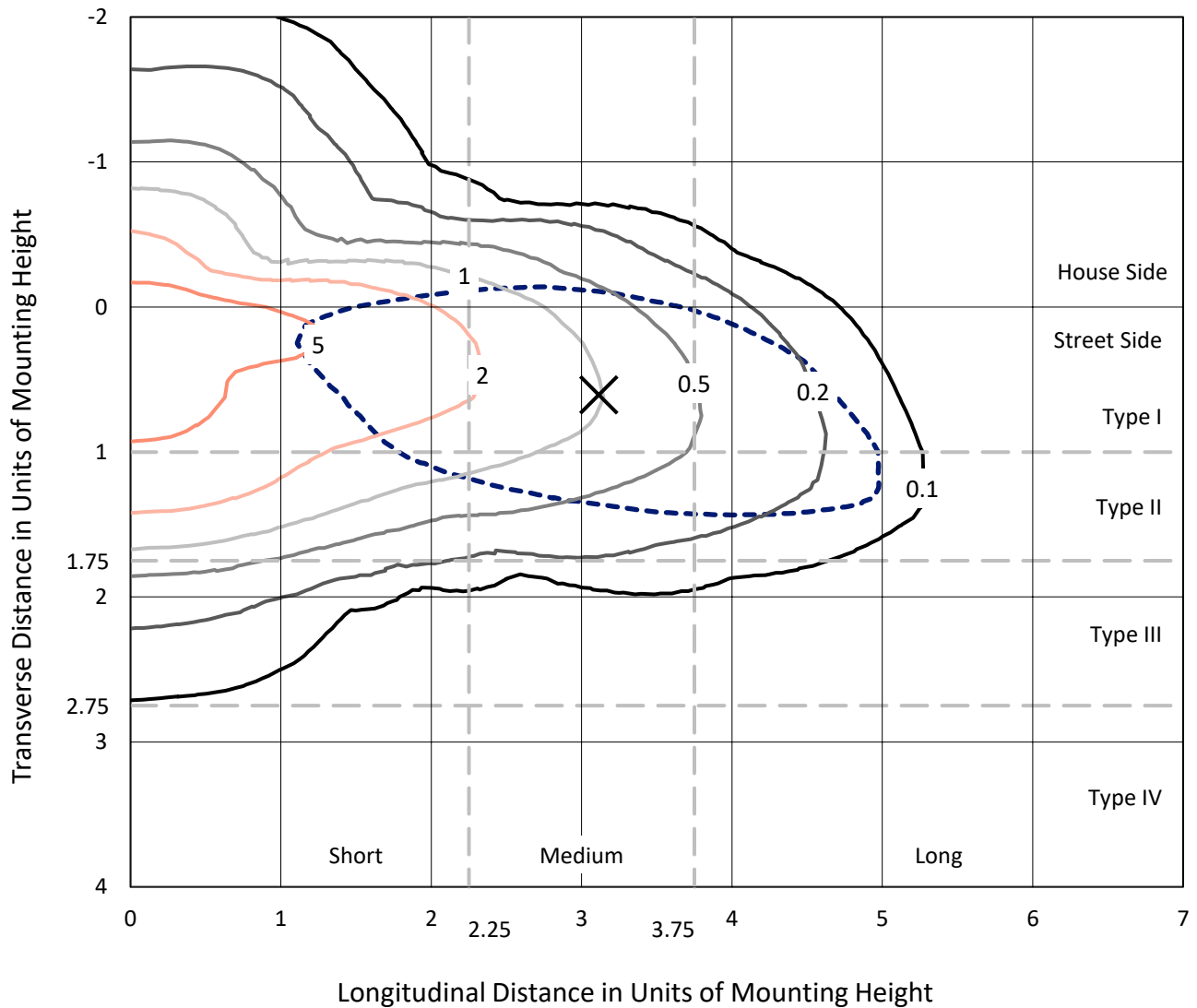
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

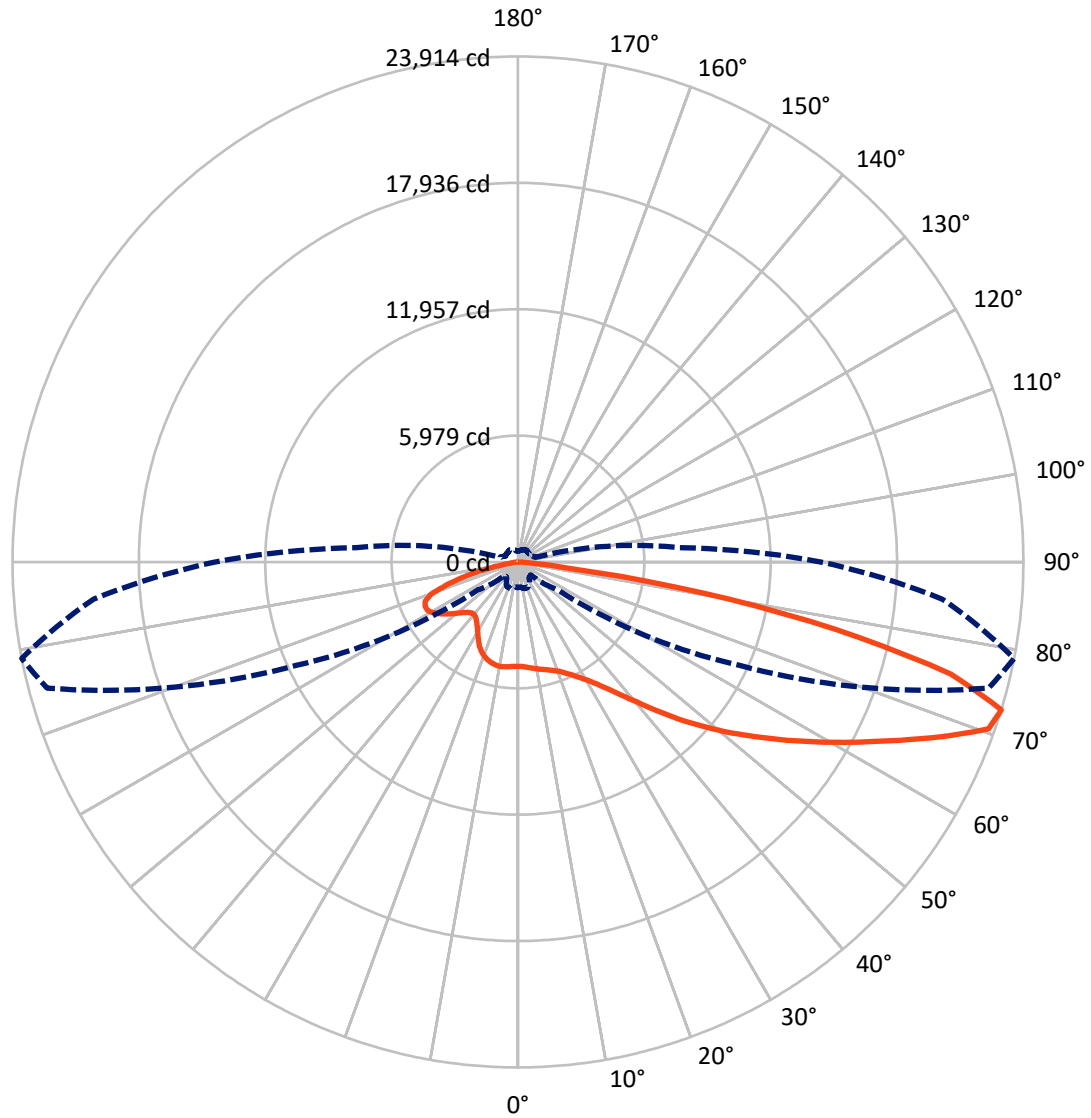
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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 | 5410.0 | 0.0 | 5410.0 |
| | % Fixture | 22.0 | 0.0 | 22.0 |
| Street Side | Lumens | 19175.0 | 0.0 | 19175.0 |
| | % Fixture | 78.0 | 0.0 | 78.0 |
| Total | Lumens | 24585.0 | 0.0 | 24585.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 448.0 | 1.8 |
| 10°-20° | 1171.2 | 4.8 |
| 20°-30° | 1889.9 | 7.7 |
| 30°-40° | 2836.4 | 11.5 |
| 40°-50° | 4023.7 | 16.4 |
| 50°-60° | 5081.3 | 20.7 |
| 60°-70° | 5160.8 | 21.0 |
| 70°-80° | 3517.3 | 14.3 |
| 80°-90° | 456.3 | 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° | 24585.0 | 100.0 |
| 0°-180° | 24585.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P951052

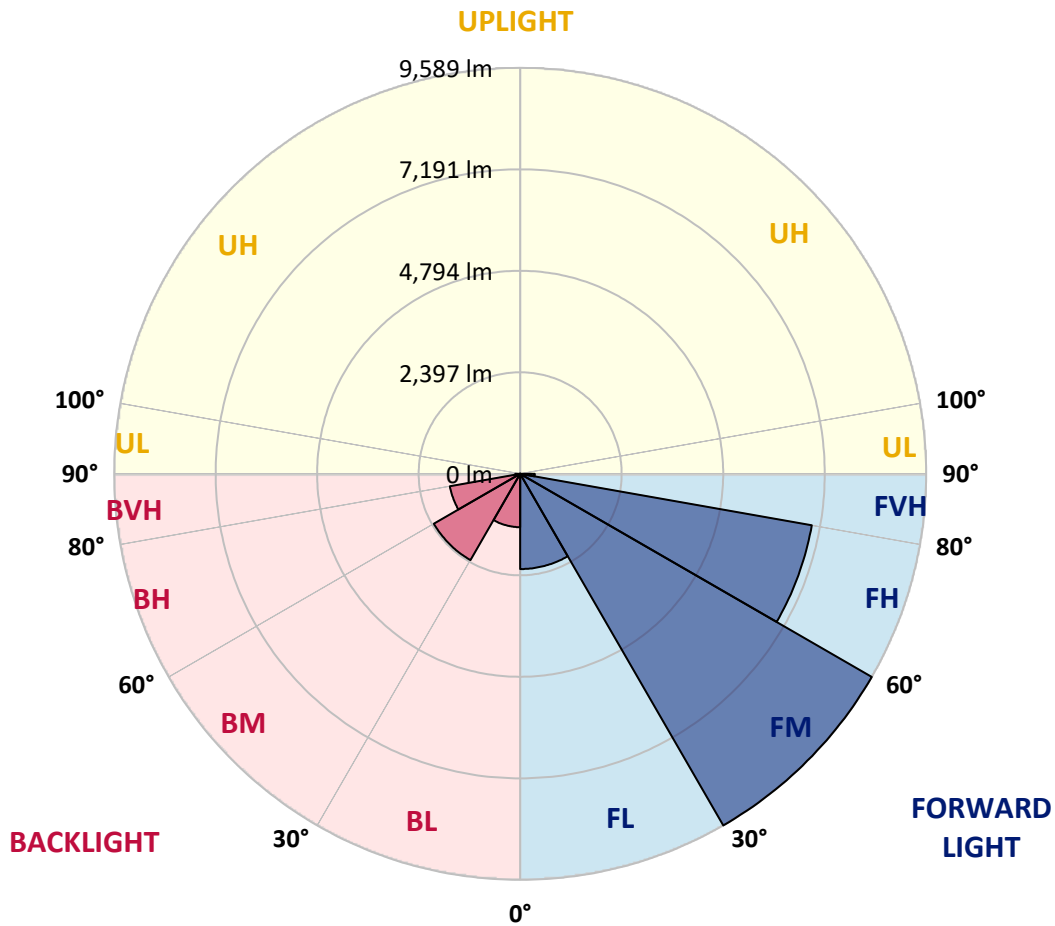
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2248.9 | 9.1 | | | |
| FM (30°-60°) | 9588.7 | 39.0 | | | |
| FH (60°-80°) | 6993.6 | 28.4 | | | G3/7500 |
| FVH (80°-90°) | 343.8 | 1.4 | | | G3/500 |
| BL (0°-30°) | 1260.2 | 5.1 | B3/2500 | | |
| BM (30°-60°) | 2352.8 | 9.6 | B2/2500 | | |
| BH (60°-80°) | 1684.5 | 6.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 112.6 | 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



REPORT NUMBER: P951052
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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 79° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 4935.2 | 4935.2 | 4935.2 | 4935.2 | 4935.2 | 4935.2 | 4935.2 | 4935.2 | 4935.2 | 4935.2 |
| 2.5° | 4937.8 | 4914.4 | 4928.7 | 4923.5 | 4930.0 | 4937.8 | 4940.4 | 4944.3 | 4957.3 | 4956.0 |
| 5° | 4927.4 | 4904.0 | 4923.5 | 4917.0 | 4933.9 | 4952.1 | 4967.7 | 4982.0 | 5002.8 | 5011.9 |
| 7.5° | 4905.3 | 4889.7 | 4909.2 | 4928.7 | 4959.9 | 4987.2 | 5009.3 | 5041.8 | 5071.8 | 5077.0 |
| 10° | 4776.6 | 4764.8 | 4810.4 | 4861.1 | 4946.9 | 5021.0 | 5069.2 | 5106.9 | 5139.4 | 5144.6 |
| 12.5° | 4642.6 | 4628.3 | 4679.0 | 4747.9 | 4887.1 | 5021.0 | 5122.5 | 5171.9 | 5200.5 | 5217.4 |
| 15° | 4620.5 | 4608.8 | 4637.4 | 4697.2 | 4813.0 | 4985.9 | 5158.9 | 5249.9 | 5274.6 | 5294.1 |
| 17.5° | 4727.1 | 4705.0 | 4716.7 | 4737.5 | 4805.2 | 4953.4 | 5187.5 | 5338.3 | 5376.1 | 5396.9 |
| 20° | 4974.2 | 4943.0 | 4924.8 | 4883.2 | 4871.5 | 4958.6 | 5184.9 | 5445.0 | 5494.4 | 5520.4 |
| 22.5° | 5303.2 | 5282.4 | 5243.4 | 5138.1 | 5023.6 | 5022.3 | 5234.3 | 5581.5 | 5673.9 | 5698.6 |
| 25° | 5701.2 | 5670.0 | 5620.5 | 5477.5 | 5257.7 | 5148.5 | 5317.5 | 5755.8 | 5910.5 | 5917.0 |
| 27.5° | 6158.9 | 6112.1 | 6044.5 | 5855.9 | 5559.4 | 5346.1 | 5445.0 | 5956.1 | 6182.3 | 6179.7 |
| 30° | 6641.4 | 6594.6 | 6523.1 | 6294.2 | 5920.9 | 5612.7 | 5621.8 | 6171.9 | 6504.8 | 6490.5 |
| 32.5° | 6993.8 | 6958.7 | 6944.4 | 6767.5 | 6337.1 | 5927.4 | 5824.7 | 6411.2 | 6902.8 | 6889.8 |
| 35° | 7264.3 | 7218.8 | 7235.7 | 7146.0 | 6790.9 | 6279.9 | 6073.1 | 6696.0 | 7386.6 | 7385.3 |
| 37.5° | 7532.2 | 7491.9 | 7506.2 | 7446.4 | 7211.0 | 6727.2 | 6376.1 | 7044.5 | 7986.1 | 8014.7 |
| 40° | 7776.7 | 7733.8 | 7791.0 | 7735.1 | 7537.4 | 7203.2 | 6720.7 | 7438.6 | 8680.5 | 8735.1 |
| 42.5° | 7923.6 | 7889.8 | 7984.8 | 7986.1 | 7820.9 | 7605.0 | 7099.2 | 7872.9 | 9484.2 | 9606.4 |
| 45° | 7974.4 | 7962.7 | 8105.7 | 8135.6 | 8071.9 | 7837.8 | 7439.9 | 8346.3 | 10350.3 | 10568.8 |
| 47.5° | 7919.7 | 7897.6 | 8095.3 | 8205.8 | 8256.6 | 7947.0 | 7722.1 | 8858.7 | 11234.6 | 11554.5 |
| 50° | 7644.0 | 7601.1 | 7895.0 | 8127.8 | 8308.6 | 8018.6 | 8006.9 | 9450.4 | 12239.8 | 12589.6 |
| 52.5° | 7148.6 | 7116.1 | 7450.3 | 7854.7 | 8194.1 | 8053.7 | 8326.8 | 10096.7 | 13194.4 | 13646.9 |
| 55° | 6515.3 | 6472.3 | 6840.4 | 7368.3 | 7909.3 | 8042.0 | 8646.7 | 10819.7 | 14320.5 | 14779.6 |
| 57.5° | 5511.3 | 5425.5 | 5891.0 | 6515.3 | 7445.1 | 8027.7 | 8979.6 | 11538.9 | 15464.9 | 16015.0 |
| 60° | 4047.0 | 3919.6 | 4490.5 | 5230.4 | 6537.4 | 7888.5 | 9391.8 | 12345.2 | 16838.2 | 17333.7 |
| 62.5° | 2356.4 | 2282.3 | 2655.5 | 3346.1 | 4927.4 | 7069.2 | 9623.3 | 13282.8 | 18188.1 | 18708.3 |
| 65° | 1829.7 | 1808.9 | 1841.4 | 1894.8 | 2742.6 | 5292.8 | 8909.4 | 14197.0 | 19904.7 | 20268.8 |
| 67.5° | 1673.7 | 1658.1 | 1672.4 | 1572.2 | 1391.5 | 2948.1 | 7048.4 | 14428.5 | 21743.5 | 21964.6 |
| 70° | 1487.7 | 1469.5 | 1516.3 | 1430.5 | 1095.0 | 1340.8 | 4554.2 | 13588.4 | 23206.5 | 23621.4 |
| 72.5° | 1212.0 | 1191.2 | 1300.4 | 1261.4 | 922.0 | 860.9 | 2287.5 | 11592.2 | 23053.1 | 23914.0 |
| 75° | 931.1 | 919.4 | 1049.5 | 1082.0 | 751.7 | 677.5 | 1097.6 | 8616.8 | 20287.0 | 21154.4 |
| 77.5° | 723.0 | 713.9 | 780.3 | 898.6 | 606.0 | 525.4 | 674.9 | 5465.8 | 15288.1 | 15440.2 |
| 80° | 542.3 | 516.3 | 577.4 | 695.7 | 472.1 | 383.6 | 457.8 | 3187.4 | 9663.6 | 8759.8 |
| 82.5° | 339.4 | 326.4 | 377.1 | 464.3 | 332.9 | 264.0 | 297.8 | 1760.8 | 3872.7 | 2281.0 |
| 85° | 193.8 | 188.6 | 205.5 | 265.3 | 180.8 | 152.2 | 170.4 | 777.7 | 707.4 | 486.4 |
| 87.5° | 78.0 | 75.4 | 93.6 | 118.3 | 66.3 | 55.9 | 59.8 | 187.3 | 156.1 | 144.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P951052
 CATALOG NUMBER: GALN-SB5B-827-U-SL2

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4935.2 | 0° | 4935.2 | 4935.2 | 4935.2 | 4935.2 | 4935.2 | 4935.2 | 4935.2 | 4935.2 | 4935.2 | 4935.2 |
| 4954.7 | 2.5° | 4949.5 | 4949.5 | 4931.3 | 4902.7 | 4870.2 | 4849.4 | 4815.6 | 4806.5 | 4771.3 | 4760.9 |
| 4998.9 | 5° | 5009.3 | 4998.9 | 4943.0 | 4862.4 | 4751.8 | 4650.4 | 4538.6 | 4468.3 | 4369.5 | 4334.4 |
| 5086.1 | 7.5° | 5084.8 | 5056.1 | 4959.9 | 4783.1 | 4551.6 | 4324.0 | 4087.3 | 3907.9 | 3736.2 | 3675.1 |
| 5157.6 | 10° | 5153.7 | 5113.4 | 4949.5 | 4640.0 | 4239.5 | 3845.4 | 3468.3 | 3204.3 | 3004.0 | 2922.1 |
| 5236.9 | 12.5° | 5222.6 | 5148.5 | 4880.6 | 4402.0 | 3796.0 | 3261.5 | 2859.7 | 2654.2 | 2530.7 | 2431.8 |
| 5301.9 | 15° | 5287.6 | 5183.6 | 4773.9 | 4083.4 | 3309.6 | 2767.4 | 2470.9 | 2307.0 | 2208.2 | 2143.1 |
| 5396.9 | 17.5° | 5363.1 | 5213.5 | 4614.0 | 3679.0 | 2846.7 | 2425.3 | 2183.5 | 2084.6 | 2065.1 | 2057.3 |
| 5526.9 | 20° | 5468.4 | 5240.8 | 4403.3 | 3226.4 | 2506.0 | 2152.2 | 2027.4 | 2018.3 | 2017.0 | 2013.1 |
| 5683.0 | 22.5° | 5581.5 | 5273.3 | 4125.0 | 2815.5 | 2216.0 | 1981.9 | 1959.8 | 1941.6 | 1929.9 | 1928.6 |
| 5871.5 | 25° | 5715.5 | 5283.7 | 3776.5 | 2478.7 | 1968.9 | 1901.3 | 1875.2 | 1847.9 | 1840.1 | 1840.1 |
| 6086.1 | 27.5° | 5845.5 | 5248.6 | 3370.8 | 2186.1 | 1829.7 | 1827.1 | 1793.3 | 1784.2 | 1782.9 | 1786.8 |
| 6330.6 | 30° | 5975.6 | 5182.3 | 2967.6 | 1915.6 | 1749.1 | 1749.1 | 1737.4 | 1743.9 | 1749.1 | 1762.1 |
| 6666.1 | 32.5° | 6151.1 | 5112.1 | 2630.8 | 1715.3 | 1678.9 | 1665.9 | 1677.6 | 1690.6 | 1695.8 | 1712.7 |
| 7107.0 | 35° | 6408.6 | 5062.6 | 2362.9 | 1606.1 | 1606.1 | 1589.1 | 1595.7 | 1593.1 | 1581.3 | 1573.5 |
| 7640.1 | 37.5° | 6749.3 | 5060.0 | 2141.8 | 1555.3 | 1544.9 | 1542.3 | 1543.6 | 1526.7 | 1481.2 | 1426.6 |
| 8285.2 | 40° | 7159.0 | 5130.3 | 1971.5 | 1520.2 | 1512.4 | 1528.0 | 1520.2 | 1474.7 | 1349.9 | 1254.9 |
| 9078.4 | 42.5° | 7709.1 | 5330.5 | 1862.2 | 1477.3 | 1500.7 | 1520.2 | 1489.0 | 1331.7 | 1247.1 | 1183.4 |
| 9982.2 | 45° | 8356.7 | 5655.7 | 1806.3 | 1431.8 | 1478.6 | 1502.0 | 1351.2 | 1282.2 | 1214.6 | 1137.9 |
| 10968.0 | 47.5° | 9090.1 | 6065.3 | 1793.3 | 1388.9 | 1429.2 | 1443.5 | 1292.6 | 1261.4 | 1184.7 | 1101.5 |
| 11958.9 | 50° | 9888.6 | 6550.4 | 1828.4 | 1338.2 | 1357.7 | 1308.3 | 1273.1 | 1244.5 | 1165.2 | 1083.3 |
| 12974.6 | 52.5° | 10714.4 | 7084.8 | 1898.7 | 1269.2 | 1286.1 | 1231.5 | 1265.3 | 1240.6 | 1153.5 | 1043.0 |
| 14024.0 | 55° | 11525.9 | 7623.2 | 1966.3 | 1188.6 | 1213.3 | 1162.6 | 1243.2 | 1225.0 | 1100.2 | 975.3 |
| 15143.7 | 57.5° | 12350.4 | 8159.0 | 2032.6 | 1117.1 | 1143.1 | 1096.3 | 1208.1 | 1183.4 | 1040.4 | 912.9 |
| 16366.2 | 60° | 13207.4 | 8679.2 | 2063.8 | 1048.2 | 1066.4 | 1035.2 | 1154.8 | 1111.9 | 972.7 | 849.2 |
| 17567.8 | 62.5° | 14009.7 | 9112.2 | 2013.1 | 979.2 | 990.9 | 977.9 | 1084.6 | 1027.4 | 905.1 | 777.7 |
| 18820.1 | 65° | 14814.7 | 9369.7 | 1857.0 | 911.6 | 914.2 | 907.7 | 985.7 | 936.3 | 825.8 | 715.2 |
| 19916.4 | 67.5° | 15544.3 | 9514.1 | 1608.7 | 838.8 | 832.3 | 829.7 | 893.4 | 837.5 | 749.1 | 652.8 |
| 20750.0 | 70° | 15699.0 | 9147.4 | 1228.9 | 753.0 | 753.0 | 746.5 | 792.0 | 734.8 | 664.5 | 586.5 |
| 20153.1 | 72.5° | 14338.8 | 7694.8 | 872.6 | 655.4 | 665.8 | 652.8 | 690.5 | 642.4 | 578.7 | 526.7 |
| 17368.8 | 75° | 11562.3 | 5642.6 | 634.6 | 555.3 | 573.5 | 551.4 | 586.5 | 552.7 | 498.1 | 496.8 |
| 11969.3 | 77.5° | 7944.4 | 3489.1 | 460.4 | 457.8 | 470.8 | 442.2 | 482.5 | 464.3 | 414.8 | 392.7 |
| 5209.6 | 80° | 3390.3 | 1391.5 | 335.5 | 353.7 | 353.7 | 327.7 | 374.5 | 379.7 | 336.8 | 326.4 |
| 1005.2 | 82.5° | 674.9 | 395.3 | 235.4 | 243.2 | 228.9 | 221.1 | 265.3 | 293.9 | 405.7 | 451.3 |
| 303.0 | 85° | 202.9 | 145.7 | 141.7 | 132.6 | 117.0 | 118.3 | 156.1 | 295.2 | 364.1 | 208.1 |
| 100.1 | 87.5° | 55.9 | 36.4 | 37.7 | 29.9 | 24.7 | 32.5 | 53.3 | 223.7 | 122.2 | 52.0 |
| 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> |
|--------------|
| 4935.2 |
| 4777.9 |
| 4360.4 |
| 3682.9 |
| 2940.3 |
| 2464.4 |
| 2154.8 |
| 2062.5 |
| 2026.1 |
| 1942.9 |
| 1847.9 |
| 1797.2 |
| 1771.2 |
| 1727.0 |
| 1591.7 |
| 1427.9 |
| 1252.3 |
| 1180.8 |
| 1132.7 |
| 1095.0 |
| 1074.2 |
| 1035.2 |
| 968.8 |
| 910.3 |
| 845.3 |
| 776.4 |
| 707.4 |
| 645.0 |
| 583.9 |
| <i>511.1</i> |
| 447.4 |
| 368.0 |
| 326.4 |
| 452.6 |
| 179.5 |
| 44.2 |
| 0.0 |

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