

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: P943514

Luminaire Tested: **GALN-SB8A-740-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943514
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8A-740-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28023 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

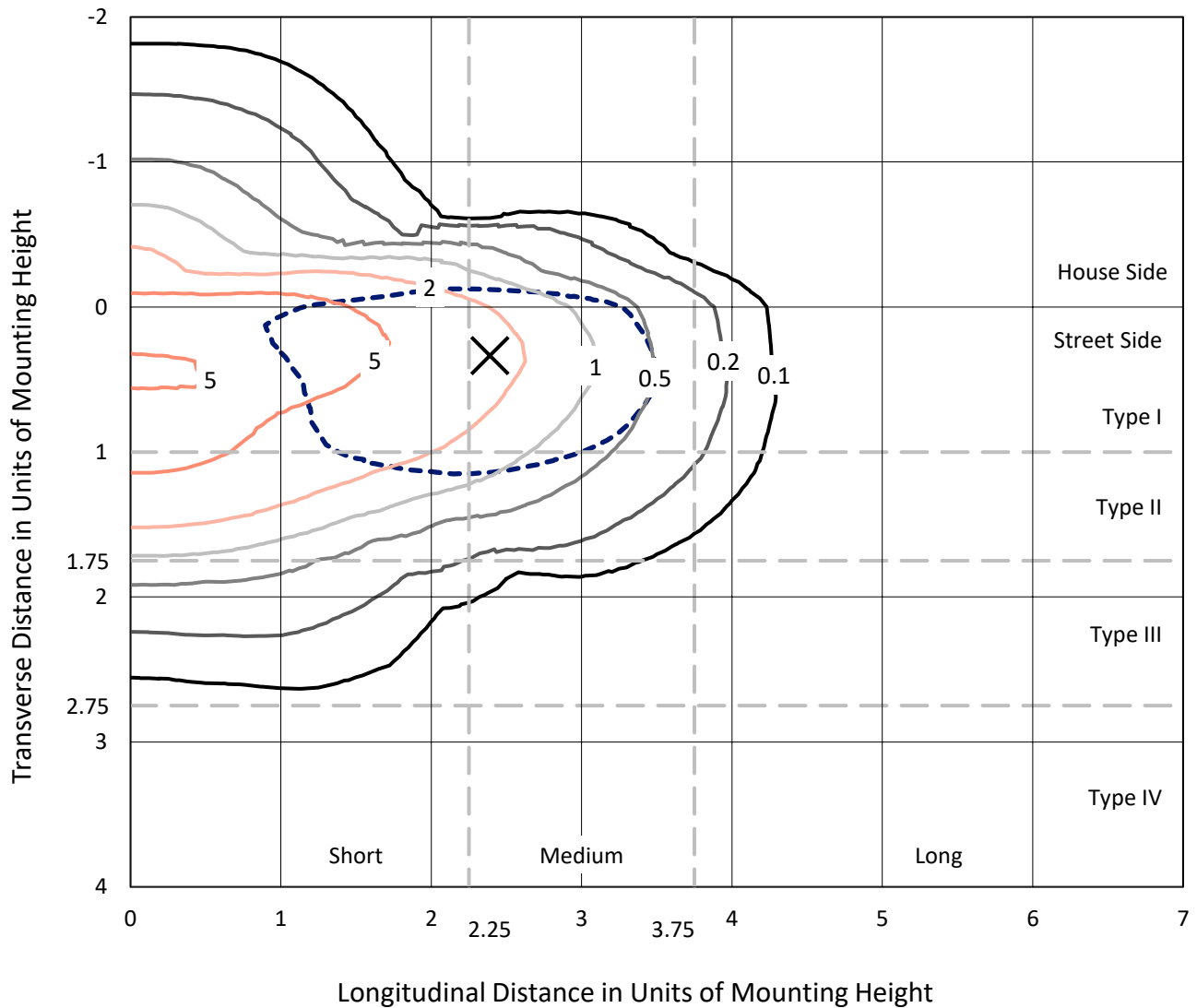
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

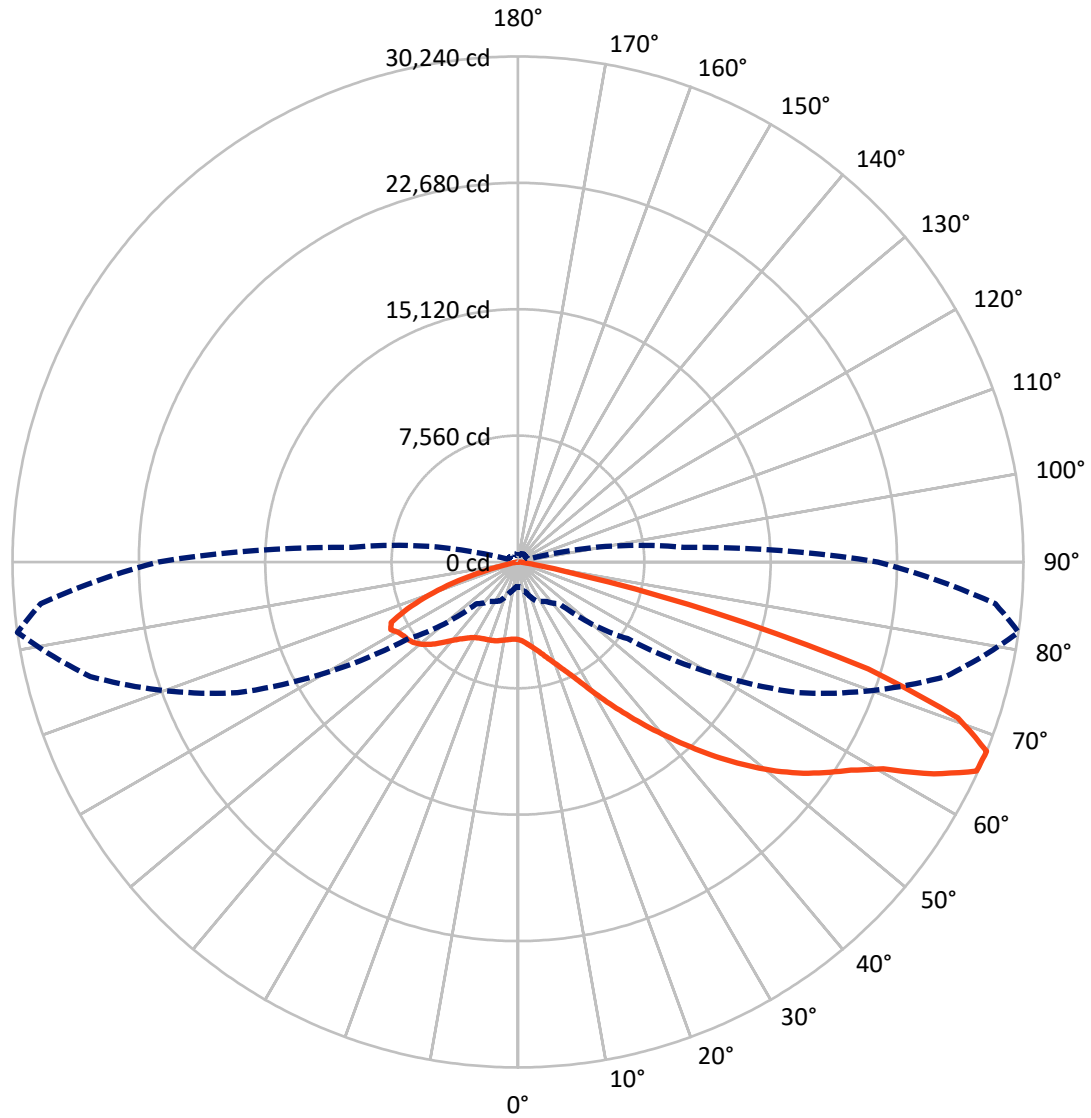
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5076.1 | 0.0 | 5076.1 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 22946.9 | 0.0 | 22946.9 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 28023.0 | 0.0 | 28023.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 413.6 | 1.5 |
| 10°-20° | 1074.8 | 3.8 |
| 20°-30° | 1721.5 | 6.1 |
| 30°-40° | 3044.1 | 10.9 |
| 40°-50° | 5333.6 | 19.0 |
| 50°-60° | 7113.5 | 25.4 |
| 60°-70° | 6622.3 | 23.6 |
| 70°-80° | 2541.6 | 9.1 |
| 80°-90° | 157.9 | 0.6 |
| 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° | 28023.0 | 100.0 |
| 0°-180° | 28023.0 | 100.0 |

Coefficient of Utilization



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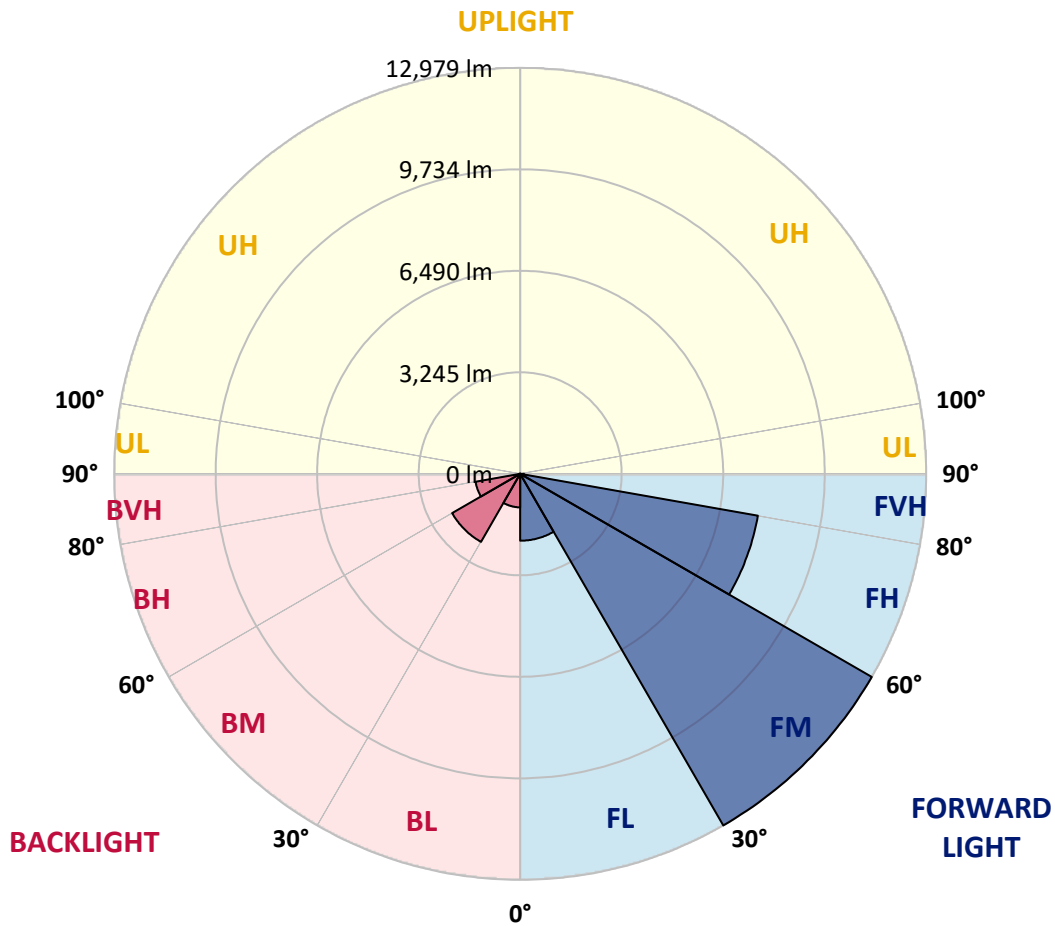
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2137.8 | 7.6 | | | |
| FM (30°-60°) | 12979.1 | 46.3 | | | |
| FH (60°-80°) | 7715.2 | 27.5 | | | G4/12000 |
| FVH (80°-90°) | 114.8 | 0.4 | | | G2/225 |
| BL (0°-30°) | 1072.1 | 3.8 | B3/2500 | | |
| BM (30°-60°) | 2512.1 | 9.0 | B3/5000 | | |
| BH (60°-80°) | 1448.8 | 5.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 43.1 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 82° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4642.5 | 4642.5 | 4642.5 | 4642.5 | 4642.5 | 4642.5 | 4642.5 | 4642.5 | 4642.5 | 4642.5 |
| 2.5° | 4906.8 | 4935.0 | 4918.9 | 4910.8 | 4896.7 | 4876.5 | 4860.4 | 4809.9 | 4757.5 | 4723.2 |
| 5° | 5005.6 | 5033.9 | 5031.9 | 5039.9 | 5050.0 | 5056.1 | 5052.0 | 4995.5 | 4920.9 | 4862.4 |
| 7.5° | 4920.9 | 4953.2 | 4979.4 | 5019.8 | 5090.4 | 5165.0 | 5201.3 | 5189.2 | 5112.6 | 5031.9 |
| 10° | 4680.8 | 4715.1 | 4777.6 | 4872.5 | 5021.8 | 5183.2 | 5318.4 | 5380.9 | 5332.5 | 5243.7 |
| 12.5° | 4241.0 | 4275.3 | 4398.3 | 4604.1 | 4854.3 | 5134.8 | 5393.0 | 5560.5 | 5572.6 | 5483.8 |
| 15° | 3746.7 | 3781.0 | 3912.1 | 4170.3 | 4551.7 | 5001.6 | 5433.4 | 5750.1 | 5857.0 | 5780.4 |
| 17.5° | 3440.0 | 3470.2 | 3569.1 | 3776.9 | 4174.4 | 4735.3 | 5419.2 | 5951.9 | 6196.0 | 6135.5 |
| 20° | 3347.2 | 3373.4 | 3419.8 | 3565.1 | 3896.0 | 4458.9 | 5326.4 | 6141.5 | 6561.2 | 6526.9 |
| 22.5° | 3446.0 | 3470.2 | 3484.4 | 3548.9 | 3756.7 | 4277.3 | 5209.4 | 6335.2 | 6984.9 | 6988.9 |
| 25° | 3674.0 | 3698.2 | 3682.1 | 3722.4 | 3813.2 | 4220.8 | 5165.0 | 6563.2 | 7517.5 | 7561.9 |
| 27.5° | 4049.3 | 4051.3 | 4013.0 | 4011.0 | 4025.1 | 4305.5 | 5211.4 | 6807.3 | 8189.4 | 8272.1 |
| 30° | 4801.9 | 4771.6 | 4624.3 | 4464.9 | 4392.3 | 4559.7 | 5340.5 | 7095.8 | 8982.3 | 9129.6 |
| 32.5° | 5962.0 | 5917.6 | 5647.2 | 5265.9 | 4882.6 | 4969.3 | 5572.6 | 7424.7 | 9845.8 | 10112.1 |
| 35° | 7220.9 | 7208.8 | 6926.4 | 6359.4 | 5689.6 | 5552.4 | 5949.9 | 7856.5 | 10788.0 | 11211.7 |
| 37.5° | 8391.1 | 8385.1 | 8223.7 | 7555.9 | 6740.8 | 6365.5 | 6555.1 | 8421.4 | 11796.8 | 12410.2 |
| 40° | 9460.5 | 9478.6 | 9317.2 | 8720.0 | 7898.8 | 7408.6 | 7378.3 | 9119.5 | 12918.6 | 13715.5 |
| 42.5° | 10384.5 | 10404.7 | 10241.3 | 9799.4 | 9042.8 | 8562.6 | 8389.1 | 9974.9 | 14014.1 | 15117.8 |
| 45° | 11012.0 | 11137.1 | 11112.9 | 10759.8 | 10217.0 | 9718.7 | 9603.7 | 11048.3 | 15263.0 | 16604.7 |
| 47.5° | 11189.5 | 11304.5 | 11486.1 | 11534.5 | 11203.6 | 10713.4 | 10850.6 | 12341.6 | 16526.0 | 18093.7 |
| 50° | 10751.7 | 10858.6 | 11235.9 | 11738.3 | 11968.3 | 11817.0 | 12063.1 | 13727.6 | 17819.3 | 19578.6 |
| 52.5° | 9888.2 | 9997.1 | 10473.3 | 11268.2 | 12206.4 | 12682.5 | 13279.7 | 15093.6 | 19072.2 | 20984.9 |
| 55° | 8639.3 | 8754.3 | 9365.6 | 10265.5 | 11752.4 | 13039.7 | 14294.6 | 16457.4 | 20220.2 | 22249.9 |
| 57.5° | 6940.5 | 7025.2 | 7660.8 | 8919.7 | 10610.5 | 12684.6 | 15043.1 | 17946.4 | 21301.7 | 23492.8 |
| 60° | 4523.4 | 4598.1 | 5336.5 | 6740.8 | 8718.0 | 11498.2 | 15192.4 | 19606.9 | 22738.2 | 25108.8 |
| 62.5° | 3008.2 | 3058.7 | 3496.5 | 4527.5 | 6139.5 | 9220.4 | 14318.8 | 20932.4 | 24844.5 | 27921.4 |
| 65° | 2064.0 | 2114.4 | 2552.2 | 3270.5 | 3966.6 | 6099.2 | 11806.9 | 20756.9 | 26753.2 | 30154.8 |
| 67.5° | 1472.8 | 1515.2 | 1886.4 | 2564.4 | 2871.0 | 3542.9 | 8003.8 | 18513.4 | 26478.8 | 30239.6 |
| 70° | 1055.2 | 1079.4 | 1386.1 | 1997.4 | 2281.9 | 2128.6 | 4450.8 | 14159.4 | 23184.1 | 27923.4 |
| 72.5° | 738.4 | 746.5 | 962.4 | 1521.3 | 1838.0 | 1553.5 | 2118.5 | 9440.3 | 17534.8 | 21917.0 |
| 75° | 500.4 | 510.4 | 647.6 | 1115.7 | 1474.9 | 1186.3 | 1121.8 | 5062.1 | 10293.7 | 12131.7 |
| 77.5° | 306.7 | 310.7 | 417.6 | 762.6 | 1103.6 | 903.9 | 722.3 | 2144.7 | 3982.7 | 3910.1 |
| 80° | 173.5 | 173.5 | 266.3 | 474.1 | 752.6 | 583.1 | 506.4 | 911.9 | 1261.0 | 1107.7 |
| 82.5° | 96.8 | 98.9 | 193.7 | 294.6 | 498.3 | 345.0 | 278.4 | 421.7 | 544.7 | 482.2 |
| 85° | 40.4 | 44.4 | 119.0 | 139.2 | 238.1 | 171.5 | 113.0 | 177.5 | 201.8 | 179.6 |
| 87.5° | 4.0 | 6.1 | 36.3 | 26.2 | 28.2 | 34.3 | 16.1 | 34.3 | 28.2 | 28.2 |
| 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° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4642.5 | 0° | 4642.5 | 4642.5 | 4642.5 | 4642.5 | 4642.5 | 4642.5 | 4642.5 | 4642.5 | 4642.5 | 4642.5 |
| 4711.1 | 2.5° | 4672.7 | 4642.5 | 4565.8 | 4477.0 | 4360.0 | 4303.5 | 4226.8 | 4174.4 | 4130.0 | 4134.0 |
| 4828.1 | 5° | 4763.5 | 4686.8 | 4515.4 | 4301.5 | 4035.2 | 3845.5 | 3643.8 | 3504.5 | 3391.6 | 3367.3 |
| 4989.5 | 7.5° | 4888.6 | 4767.6 | 4466.9 | 4081.6 | 3631.7 | 3290.7 | 2986.0 | 2790.3 | 2651.1 | 2606.7 |
| 5185.2 | 10° | 5050.0 | 4874.5 | 4404.4 | 3805.2 | 3157.5 | 2723.7 | 2396.9 | 2243.6 | 2148.7 | 2116.4 |
| 5415.2 | 12.5° | 5237.7 | 4997.6 | 4321.7 | 3468.2 | 2669.3 | 2251.6 | 2043.8 | 1967.1 | 1936.9 | 1926.8 |
| 5697.7 | 15° | 5473.7 | 5150.9 | 4196.6 | 3068.7 | 2255.7 | 1963.1 | 1874.3 | 1864.2 | 1868.3 | 1864.2 |
| 6036.6 | 17.5° | 5754.2 | 5318.4 | 3992.8 | 2657.2 | 1977.2 | 1815.8 | 1783.5 | 1791.6 | 1801.7 | 1799.7 |
| 6415.9 | 20° | 6060.8 | 5483.8 | 3732.5 | 2292.0 | 1787.6 | 1710.9 | 1692.8 | 1700.8 | 1708.9 | 1704.9 |
| 6853.7 | 22.5° | 6409.9 | 5661.3 | 3444.0 | 2007.5 | 1660.5 | 1614.1 | 1593.9 | 1595.9 | 1595.9 | 1587.8 |
| 7408.6 | 25° | 6827.5 | 5857.0 | 3141.4 | 1805.7 | 1563.6 | 1527.3 | 1503.1 | 1495.0 | 1482.9 | 1458.7 |
| 8082.4 | 27.5° | 7325.9 | 6064.9 | 2850.8 | 1664.5 | 1487.0 | 1452.7 | 1424.4 | 1404.2 | 1374.0 | 1333.6 |
| 8891.5 | 30° | 7886.7 | 6317.1 | 2604.7 | 1575.7 | 1426.4 | 1392.1 | 1359.9 | 1329.6 | 1285.2 | 1234.8 |
| 9821.6 | 32.5° | 8546.5 | 6587.4 | 2425.1 | 1517.2 | 1372.0 | 1335.6 | 1297.3 | 1261.0 | 1212.6 | 1162.1 |
| 10866.7 | 35° | 9333.3 | 6914.3 | 2320.2 | 1476.9 | 1329.6 | 1281.2 | 1238.8 | 1198.4 | 1162.1 | 1117.7 |
| 12002.6 | 37.5° | 10186.8 | 7261.3 | 2287.9 | 1456.7 | 1301.3 | 1226.7 | 1178.3 | 1150.0 | 1146.0 | 1119.8 |
| 13231.3 | 40° | 11120.9 | 7672.9 | 2312.2 | 1444.6 | 1271.1 | 1174.2 | 1121.8 | 1115.7 | 1125.8 | 1079.4 |
| 14544.8 | 42.5° | 12109.5 | 8161.1 | 2352.5 | 1430.5 | 1228.7 | 1121.8 | 1071.3 | 1071.3 | 1063.3 | 998.7 |
| 15932.9 | 45° | 13178.9 | 8724.0 | 2392.9 | 1396.2 | 1178.3 | 1069.3 | 1031.0 | 1016.9 | 982.6 | 920.0 |
| 17329.0 | 47.5° | 14256.3 | 9297.0 | 2423.1 | 1333.6 | 1117.7 | 1024.9 | 990.6 | 958.4 | 907.9 | 851.4 |
| 18699.0 | 50° | 15279.2 | 9811.5 | 2390.8 | 1240.8 | 1049.1 | 982.6 | 946.2 | 901.9 | 847.4 | 809.1 |
| 19996.3 | 52.5° | 16193.1 | 10257.4 | 2253.6 | 1131.9 | 976.5 | 938.2 | 905.9 | 859.5 | 815.1 | 774.8 |
| 21166.5 | 55° | 16988.1 | 10618.5 | 2011.5 | 1029.0 | 911.9 | 899.8 | 867.6 | 809.1 | 748.5 | 714.2 |
| 22326.6 | 57.5° | 17750.7 | 10892.9 | 1708.9 | 944.2 | 853.4 | 857.5 | 809.1 | 756.6 | 700.1 | 663.8 |
| 23890.2 | 60° | 18765.6 | 11260.1 | 1402.2 | 865.5 | 790.9 | 803.0 | 750.5 | 712.2 | 641.6 | 595.2 |
| 26571.6 | 62.5° | 20387.7 | 11831.1 | 1113.7 | 768.7 | 718.3 | 722.3 | 700.1 | 653.7 | 569.0 | 514.5 |
| 28558.9 | 65° | 21674.9 | 11621.3 | 877.6 | 663.8 | 635.5 | 641.6 | 641.6 | 591.2 | 500.4 | 437.8 |
| 28665.8 | 67.5° | 21529.6 | 9950.7 | 700.1 | 560.9 | 556.9 | 560.9 | 575.0 | 532.6 | 443.9 | 393.4 |
| 26482.8 | 70° | 19832.9 | 7915.0 | 560.9 | 466.1 | 484.2 | 474.1 | 514.5 | 486.2 | 399.5 | 349.0 |
| 20530.9 | 72.5° | 16183.0 | 5701.7 | 427.7 | 385.4 | 371.2 | 387.4 | 464.0 | 437.8 | 332.9 | 276.4 |
| 10874.8 | 75° | 9456.4 | 3042.5 | 318.8 | 304.7 | 268.3 | 322.8 | 411.6 | 373.3 | 254.2 | 203.8 |
| 3333.1 | 77.5° | 3078.8 | 1061.2 | 234.0 | 224.0 | 199.7 | 260.3 | 351.1 | 314.7 | 207.8 | 161.4 |
| 976.5 | 80° | 825.2 | 320.8 | 159.4 | 147.3 | 129.1 | 193.7 | 278.4 | 250.2 | 149.3 | 104.9 |
| 419.7 | 82.5° | 330.9 | 135.2 | 92.8 | 82.7 | 70.6 | 133.2 | 219.9 | 201.8 | 111.0 | 66.6 |
| 131.1 | 85° | 106.9 | 44.4 | 34.3 | 26.2 | 32.3 | 82.7 | 131.1 | 137.2 | 78.7 | 34.3 |
| 20.2 | 87.5° | 14.1 | 6.1 | 6.1 | 8.1 | 6.1 | 14.1 | 40.4 | 38.3 | 22.2 | 4.0 |
| 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> |
|-------------|
| 4642.5 |
| 4093.7 |
| 3312.9 |
| 2562.3 |
| 2092.2 |
| 1920.7 |
| 1862.2 |
| 1795.7 |
| 1702.8 |
| 1583.8 |
| 1454.7 |
| 1329.6 |
| 1230.7 |
| 1164.1 |
| 1113.7 |
| 1117.7 |
| 1081.4 |
| 998.7 |
| 918.0 |
| 849.4 |
| 803.0 |
| 770.7 |
| 710.2 |
| 659.8 |
| 589.1 |
| 510.4 |
| 431.8 |
| 385.4 |
| 343.0 |
| 270.4 |
| 197.7 |
| 155.4 |
| 102.9 |
| 66.6 |
| 26.2 |
| 0.0 |
| 0.0 |

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