

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: P955107

Luminaire Tested: **GALN-SB8A-930-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955107
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8A-930-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24661 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

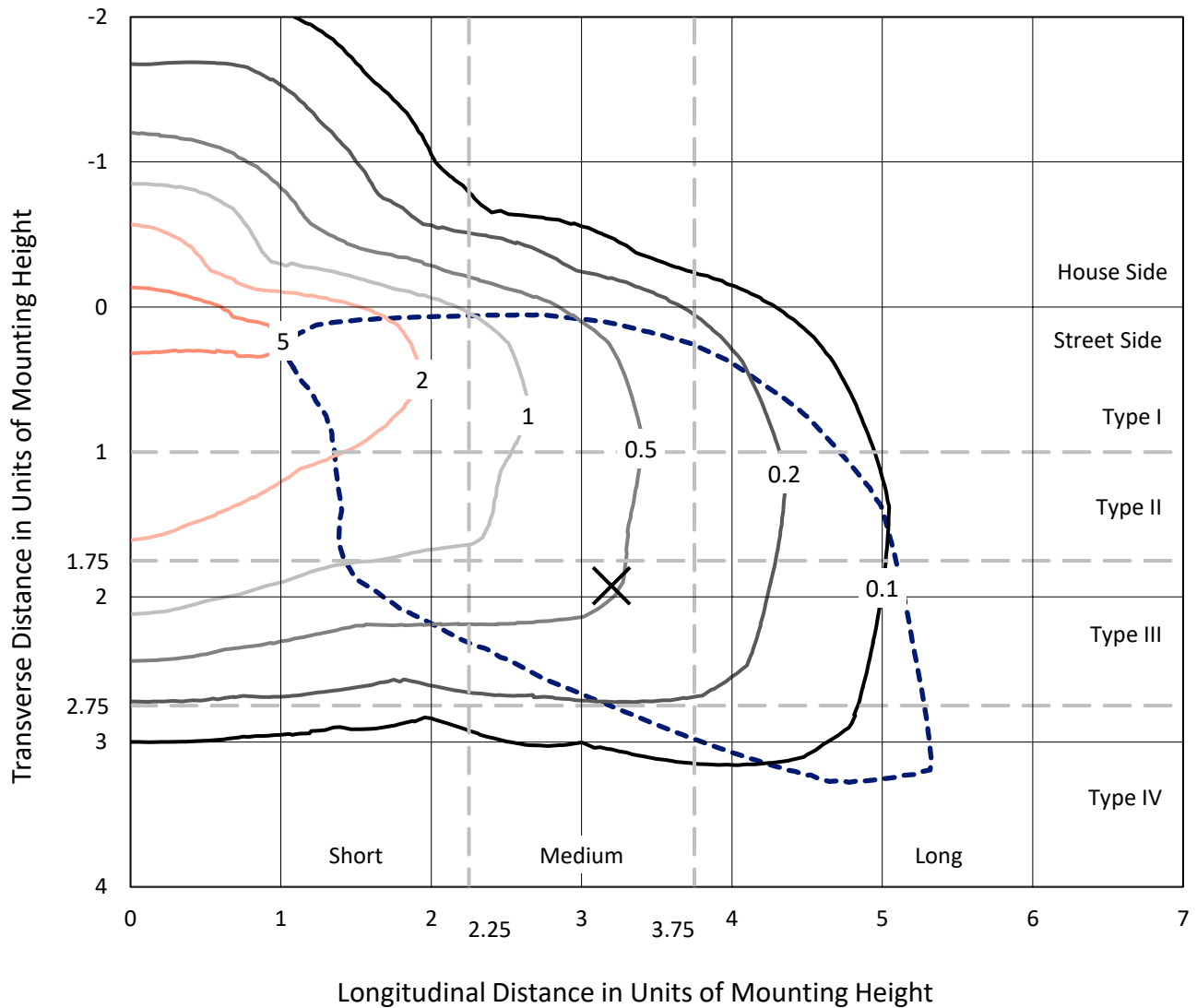
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

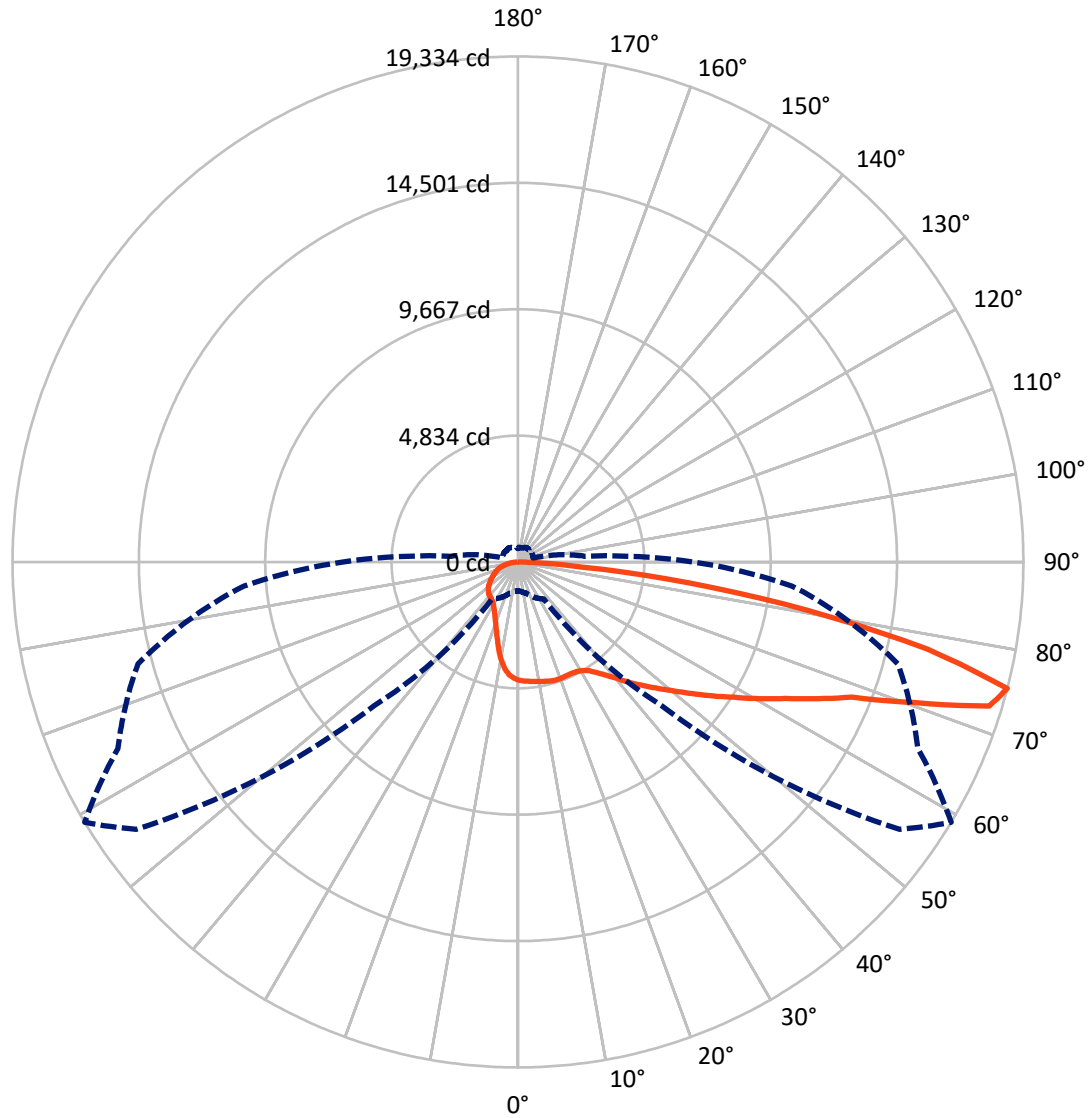
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4625.3 | 0.0 | 4625.3 |
| | % Fixture | 18.8 | 0.0 | 18.8 |
| Street Side | Lumens | 20035.7 | 0.0 | 20035.7 |
| | % Fixture | 81.2 | 0.0 | 81.2 |
| Total | Lumens | 24661.0 | 0.0 | 24661.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 405.9 | 1.6 |
| 10°-20° | 1037.4 | 4.2 |
| 20°-30° | 1575.8 | 6.4 |
| 30°-40° | 2342.4 | 9.5 |
| 40°-50° | 3483.5 | 14.1 |
| 50°-60° | 4728.4 | 19.2 |
| 60°-70° | 5772.6 | 23.4 |
| 70°-80° | 4530.3 | 18.4 |
| 80°-90° | 784.8 | 3.2 |
| 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° | 24661.0 | 100.0 |
| 0°-180° | 24661.0 | 100.0 |

Coefficient of Utilization



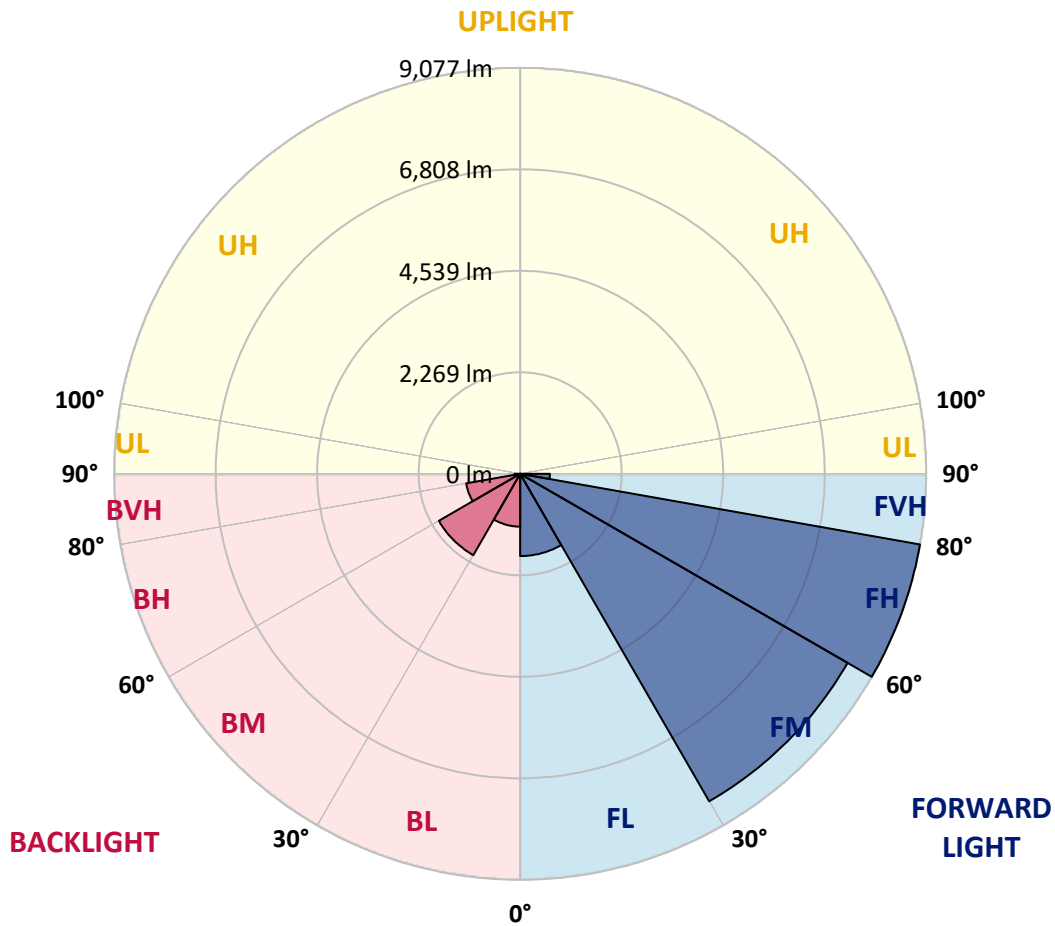
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1838.7 | 7.5 | | | |
| FM (30°-60°) | 8454.8 | 34.3 | | | |
| FH (60°-80°) | 9077.5 | 36.8 | | | G4/12000 |
| FVH (80°-90°) | 664.6 | 2.7 | | | G4/750 |
| BL (0°-30°) | 1180.3 | 4.8 | B3/2500 | | |
| BM (30°-60°) | 2099.4 | 8.5 | B2/2500 | | |
| BH (60°-80°) | 1225.4 | 5.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 120.1 | 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-G4

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0° | 4526.5 | 4526.5 | 4526.5 | 4526.5 | 4526.5 | 4526.5 | 4526.5 | 4526.5 | 4526.5 | 4526.5 |
| 2.5° | 4564.9 | 4549.0 | 4564.9 | 4558.3 | 4555.7 | 4550.4 | 4551.7 | 4561.0 | 4555.7 | 4562.3 |
| 5° | 4534.4 | 4525.1 | 4541.1 | 4537.1 | 4554.3 | 4557.0 | 4574.2 | 4584.8 | 4591.5 | 4592.8 |
| 7.5° | 4484.0 | 4474.7 | 4497.3 | 4515.9 | 4553.0 | 4563.6 | 4599.4 | 4616.7 | 4626.0 | 4641.9 |
| 10° | 4299.6 | 4295.6 | 4351.4 | 4421.7 | 4509.2 | 4563.6 | 4618.0 | 4647.2 | 4661.8 | 4704.2 |
| 12.5° | 3973.3 | 3978.6 | 4051.5 | 4186.9 | 4362.0 | 4537.1 | 4639.2 | 4681.7 | 4704.2 | 4757.3 |
| 15° | 3661.5 | 3660.2 | 3739.8 | 3884.4 | 4129.8 | 4420.3 | 4649.8 | 4722.8 | 4761.3 | 4839.6 |
| 17.5° | 3481.1 | 3475.8 | 3531.5 | 3641.6 | 3869.8 | 4241.2 | 4623.3 | 4745.4 | 4827.6 | 4925.8 |
| 20° | 3447.9 | 3437.3 | 3466.5 | 3520.9 | 3682.7 | 4044.9 | 4554.3 | 4745.4 | 4880.7 | 5008.0 |
| 22.5° | 3568.6 | 3551.4 | 3539.5 | 3532.8 | 3604.5 | 3883.1 | 4476.1 | 4729.4 | 4959.0 | 5126.1 |
| 25° | 3811.4 | 3784.9 | 3723.9 | 3664.2 | 3642.9 | 3810.1 | 4407.1 | 4725.5 | 5075.7 | 5285.3 |
| 27.5° | 4204.1 | 4170.9 | 4047.6 | 3904.3 | 3775.6 | 3847.2 | 4376.6 | 4749.3 | 5204.4 | 5453.8 |
| 30° | 4691.0 | 4655.2 | 4499.9 | 4279.7 | 4048.9 | 3985.2 | 4415.0 | 4819.7 | 5368.9 | 5678.0 |
| 32.5° | 5127.4 | 5087.6 | 4955.0 | 4730.8 | 4419.0 | 4224.0 | 4537.1 | 4953.6 | 5627.6 | 5989.7 |
| 35° | 5514.8 | 5468.4 | 5349.0 | 5142.0 | 4872.7 | 4559.6 | 4757.3 | 5191.1 | 5995.1 | 6496.5 |
| 37.5° | 5894.2 | 5839.8 | 5709.8 | 5490.9 | 5302.6 | 5006.7 | 5061.1 | 5496.2 | 6483.3 | 7112.1 |
| 40° | 6318.8 | 6240.5 | 6082.6 | 5866.4 | 5683.3 | 5530.7 | 5460.4 | 5870.4 | 6979.4 | 7799.3 |
| 42.5° | 6730.0 | 6655.7 | 6467.3 | 6282.9 | 6053.4 | 6009.6 | 5923.4 | 6308.1 | 7522.0 | 8554.1 |
| 45° | 7173.1 | 7084.2 | 6856.0 | 6622.6 | 6477.9 | 6328.0 | 6371.8 | 6745.9 | 8054.0 | 9323.6 |
| 47.5° | 7588.3 | 7488.8 | 7219.5 | 6959.5 | 6879.9 | 6596.0 | 6783.1 | 7227.5 | 8607.2 | 10103.6 |
| 50° | 7812.5 | 7714.4 | 7490.2 | 7255.4 | 7193.0 | 6926.4 | 7228.8 | 7756.8 | 9186.9 | 10881.0 |
| 52.5° | 7999.6 | 7893.5 | 7600.3 | 7470.3 | 7451.7 | 7285.9 | 7778.0 | 8361.8 | 9766.7 | 11568.2 |
| 55° | 8198.6 | 8080.5 | 7706.4 | 7589.7 | 7674.6 | 7689.2 | 8429.4 | 9047.6 | 10379.6 | 12238.2 |
| 57.5° | 8428.1 | 8278.2 | 7808.6 | 7690.5 | 7892.1 | 8161.4 | 9177.6 | 9758.7 | 10981.9 | 12859.1 |
| 60° | 8644.3 | 8493.1 | 8004.9 | 7851.0 | 8127.0 | 8709.3 | 10036.0 | 10619.7 | 11663.8 | 13412.3 |
| 62.5° | 8686.8 | 8562.1 | 8161.4 | 8160.1 | 8445.3 | 9348.8 | 11052.2 | 11488.6 | 12259.4 | 13958.8 |
| 65° | 7951.8 | 7873.6 | 7636.1 | 8148.2 | 8901.7 | 10269.5 | 12183.8 | 12600.4 | 13016.9 | 14436.4 |
| 67.5° | 6052.1 | 6062.7 | 6045.5 | 7033.8 | 8532.9 | 11592.1 | 13822.2 | 13790.3 | 13952.2 | 14972.4 |
| 70° | 2767.4 | 2829.7 | 3235.7 | 4855.5 | 6836.1 | 11744.7 | 16531.2 | 16118.6 | 15126.3 | 15666.2 |
| 72.5° | 1495.1 | 1542.9 | 1708.7 | 2352.1 | 4109.9 | 10441.9 | 18555.6 | 18848.8 | 16687.7 | 16133.2 |
| 75° | 1097.1 | 1123.7 | 1239.1 | 1495.1 | 1725.9 | 7760.8 | 17829.9 | 19334.3 | 16882.7 | 15044.0 |
| 77.5° | 821.2 | 833.1 | 927.3 | 1184.7 | 883.5 | 4091.3 | 14246.7 | 16012.5 | 14452.3 | 12360.2 |
| 80° | 595.7 | 608.9 | 679.2 | 888.8 | 619.5 | 1496.4 | 9782.6 | 11239.2 | 9898.0 | 7878.9 |
| 82.5° | 411.3 | 416.6 | 447.1 | 604.9 | 432.5 | 581.1 | 5550.6 | 6590.7 | 5525.4 | 2764.7 |
| 85° | 248.1 | 254.7 | 268.0 | 352.9 | 245.4 | 275.9 | 2395.9 | 2478.2 | 1651.7 | 660.7 |
| 87.5° | 102.2 | 108.8 | 119.4 | 148.6 | 96.8 | 76.9 | 395.3 | 496.2 | 309.1 | 193.7 |
| 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° |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4526.5 | 0° | 4526.5 | 4526.5 | 4526.5 | 4526.5 | 4526.5 | 4526.5 | 4526.5 | 4526.5 | 4526.5 | 4526.5 |
| 4539.7 | 2.5° | 4533.1 | 4523.8 | 4498.6 | 4464.1 | 4432.3 | 4392.5 | 4375.2 | 4360.6 | 4347.4 | 4322.2 |
| 4575.6 | 5° | 4561.0 | 4535.8 | 4468.1 | 4380.5 | 4281.0 | 4172.3 | 4066.1 | 3993.2 | 3930.8 | 3884.4 |
| 4616.7 | 7.5° | 4603.4 | 4555.7 | 4432.3 | 4253.2 | 4025.0 | 3791.5 | 3580.6 | 3430.7 | 3317.9 | 3276.8 |
| 4675.1 | 10° | 4647.2 | 4590.1 | 4375.2 | 4059.5 | 3665.5 | 3306.0 | 3026.0 | 2872.2 | 2781.9 | 2752.8 |
| 4744.0 | 12.5° | 4698.9 | 4615.4 | 4286.4 | 3790.2 | 3263.5 | 2869.5 | 2625.4 | 2535.2 | 2488.8 | 2472.8 |
| 4828.9 | 15° | 4774.6 | 4636.6 | 4152.4 | 3453.2 | 2880.1 | 2551.1 | 2393.2 | 2330.9 | 2307.0 | 2305.7 |
| 4916.5 | 17.5° | 4831.6 | 4640.6 | 3944.1 | 3092.4 | 2585.6 | 2358.8 | 2228.7 | 2204.9 | 2220.8 | 2244.7 |
| 5002.7 | 20° | 4895.3 | 4604.7 | 3670.8 | 2763.4 | 2378.7 | 2190.3 | 2135.9 | 2151.8 | 2190.3 | 2224.8 |
| 5116.8 | 22.5° | 4940.4 | 4539.7 | 3340.5 | 2507.3 | 2199.6 | 2093.4 | 2090.8 | 2123.9 | 2145.2 | 2162.4 |
| 5250.8 | 25° | 4980.2 | 4429.6 | 2990.2 | 2292.4 | 2052.3 | 2035.1 | 2064.2 | 2053.6 | 2039.0 | 2053.6 |
| 5384.8 | 27.5° | 5009.4 | 4255.8 | 2677.1 | 2104.0 | 1948.8 | 1995.3 | 1978.0 | 1954.1 | 1952.8 | 1960.8 |
| 5542.7 | 30° | 5000.1 | 4023.7 | 2419.8 | 1924.9 | 1875.9 | 1921.0 | 1879.8 | 1875.9 | 1871.9 | 1875.9 |
| 5780.1 | 32.5° | 5000.1 | 3759.7 | 2222.1 | 1801.6 | 1829.4 | 1812.2 | 1808.2 | 1798.9 | 1783.0 | 1781.7 |
| 6102.5 | 35° | 5027.9 | 3495.7 | 2052.3 | 1735.2 | 1791.0 | 1749.8 | 1752.5 | 1729.9 | 1696.8 | 1680.8 |
| 6529.7 | 37.5° | 5085.0 | 3283.4 | 1883.8 | 1703.4 | 1723.3 | 1722.0 | 1711.4 | 1672.9 | 1614.5 | 1564.1 |
| 7063.0 | 40° | 5223.0 | 3221.1 | 1768.4 | 1688.8 | 1691.5 | 1707.4 | 1679.5 | 1605.2 | 1472.6 | 1390.3 |
| 7604.3 | 42.5° | 5439.2 | 3325.9 | 1743.2 | 1653.0 | 1670.2 | 1686.2 | 1631.8 | 1459.3 | 1365.1 | 1316.0 |
| 8172.1 | 45° | 5713.8 | 3508.9 | 1797.6 | 1601.2 | 1619.8 | 1647.7 | 1485.8 | 1403.6 | 1361.1 | 1362.5 |
| 8734.6 | 47.5° | 6061.4 | 3701.3 | 1898.4 | 1556.1 | 1546.9 | 1562.8 | 1389.0 | 1338.6 | 1280.2 | 1294.8 |
| 9274.5 | 50° | 6463.4 | 3896.3 | 1993.9 | 1495.1 | 1465.9 | 1414.2 | 1326.6 | 1278.9 | 1204.6 | 1170.1 |
| 9795.9 | 52.5° | 6898.5 | 4084.7 | 2032.4 | 1420.8 | 1378.4 | 1318.7 | 1284.2 | 1225.8 | 1135.6 | 1078.6 |
| 10288.0 | 55° | 7311.1 | 4255.8 | 1989.9 | 1331.9 | 1290.8 | 1244.4 | 1239.1 | 1203.3 | 1106.4 | 1026.8 |
| 10725.8 | 57.5° | 7701.1 | 4399.1 | 1883.8 | 1241.7 | 1201.9 | 1174.1 | 1209.9 | 1192.6 | 1070.6 | 968.4 |
| 11139.7 | 60° | 8031.4 | 4497.3 | 1729.9 | 1150.2 | 1122.3 | 1107.7 | 1162.1 | 1156.8 | 1020.2 | 906.1 |
| 11511.2 | 62.5° | 8294.1 | 4535.8 | 1560.1 | 1062.6 | 1056.0 | 1029.5 | 1095.8 | 1095.8 | 956.5 | 845.1 |
| 11837.5 | 65° | 8499.7 | 4498.6 | 1387.7 | 976.4 | 989.7 | 949.9 | 1014.9 | 1006.9 | 888.8 | 790.7 |
| 12213.0 | 67.5° | 8681.5 | 4376.6 | 1196.6 | 891.5 | 922.0 | 871.6 | 930.0 | 911.4 | 814.6 | 736.3 |
| 12538.0 | 70° | 8762.4 | 4092.7 | 979.1 | 806.6 | 843.7 | 794.7 | 845.1 | 810.6 | 731.0 | 677.9 |
| 12181.1 | 72.5° | 8112.4 | 3401.5 | 770.8 | 717.7 | 749.5 | 709.7 | 753.5 | 713.7 | 640.8 | 616.9 |
| 10518.9 | 75° | 6711.4 | 2552.4 | 593.0 | 620.9 | 644.7 | 614.2 | 643.4 | 614.2 | 547.9 | 565.1 |
| 7770.1 | 77.5° | 4874.0 | 1723.3 | 453.7 | 518.7 | 529.3 | 513.4 | 538.6 | 505.4 | 445.7 | 441.8 |
| 3872.4 | 80° | 2423.8 | 1009.6 | 355.5 | 409.9 | 405.9 | 395.3 | 424.5 | 408.6 | 358.2 | 379.4 |
| 1045.4 | 82.5° | 701.8 | 432.5 | 258.7 | 287.9 | 279.9 | 282.6 | 303.8 | 311.8 | 467.0 | 463.0 |
| 325.0 | 85° | 220.2 | 169.8 | 155.2 | 160.5 | 152.6 | 156.5 | 179.1 | 355.5 | 329.0 | 192.4 |
| 100.8 | 87.5° | 57.0 | 58.4 | 38.5 | 41.1 | 42.5 | 50.4 | 57.0 | 216.2 | 103.5 | 67.7 |
| 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> |
|--------------|
| 4526.5 |
| 4310.2 |
| 3845.9 |
| 3205.1 |
| 2707.7 |
| 2476.8 |
| 2311.0 |
| 2253.9 |
| 2236.7 |
| 2171.7 |
| 2062.9 |
| 1974.0 |
| 1890.5 |
| 1798.9 |
| 1696.8 |
| 1581.3 |
| 1400.9 |
| 1316.0 |
| 1369.1 |
| 1331.9 |
| 1179.4 |
| 1077.2 |
| 1026.8 |
| 963.1 |
| 902.1 |
| 841.1 |
| 785.4 |
| 731.0 |
| 667.3 |
| 597.0 |
| <i>516.1</i> |
| 421.9 |
| 375.4 |
| 473.6 |
| 208.3 |
| 71.6 |
| 0.0 |

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