

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: P950655

Luminaire Tested: **GALN-SB5A-750-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950655
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-SB5A-750-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 5000K, 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: 23430 lumens
Efficiency: N/A
Efficacy: 165.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

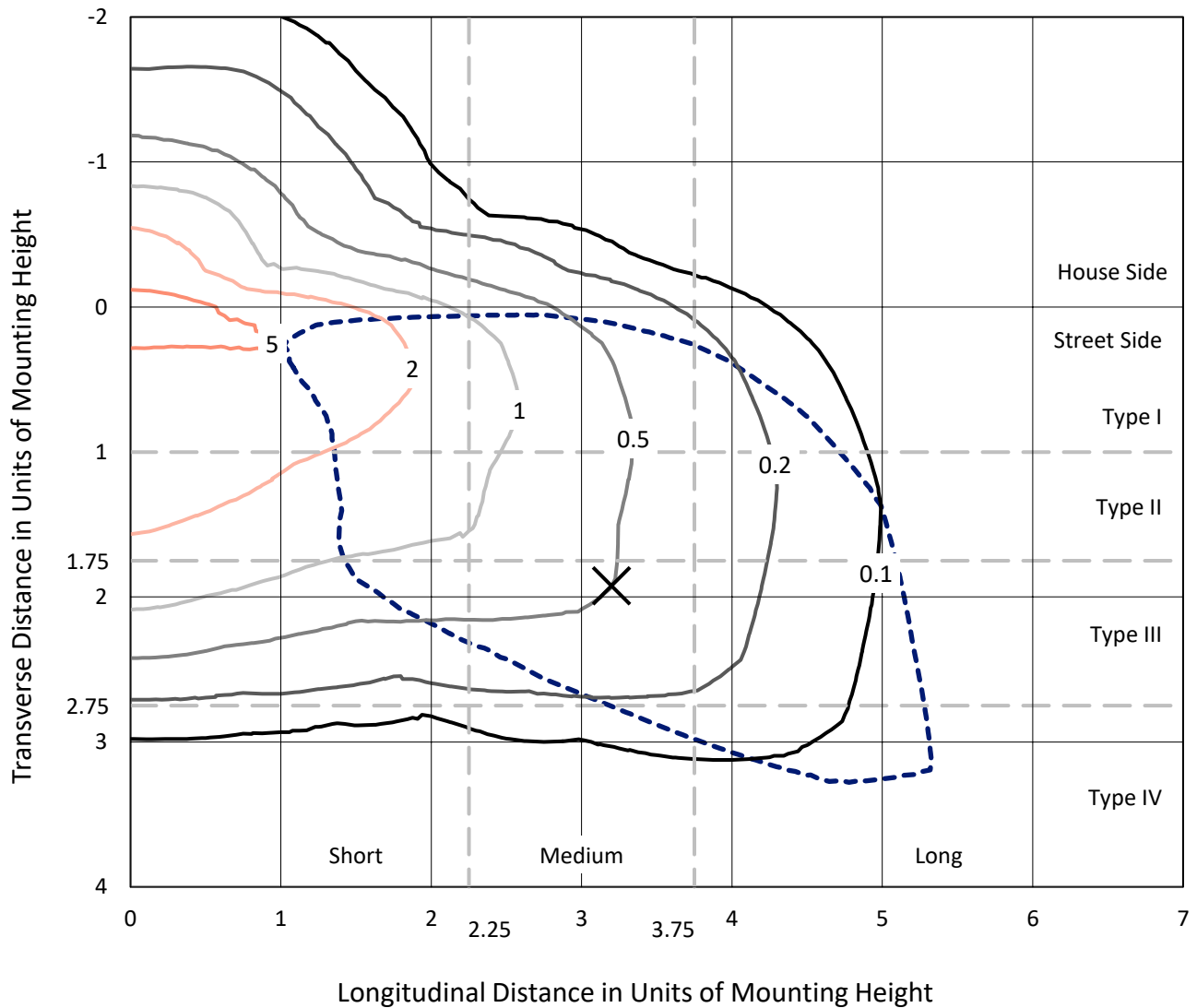
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

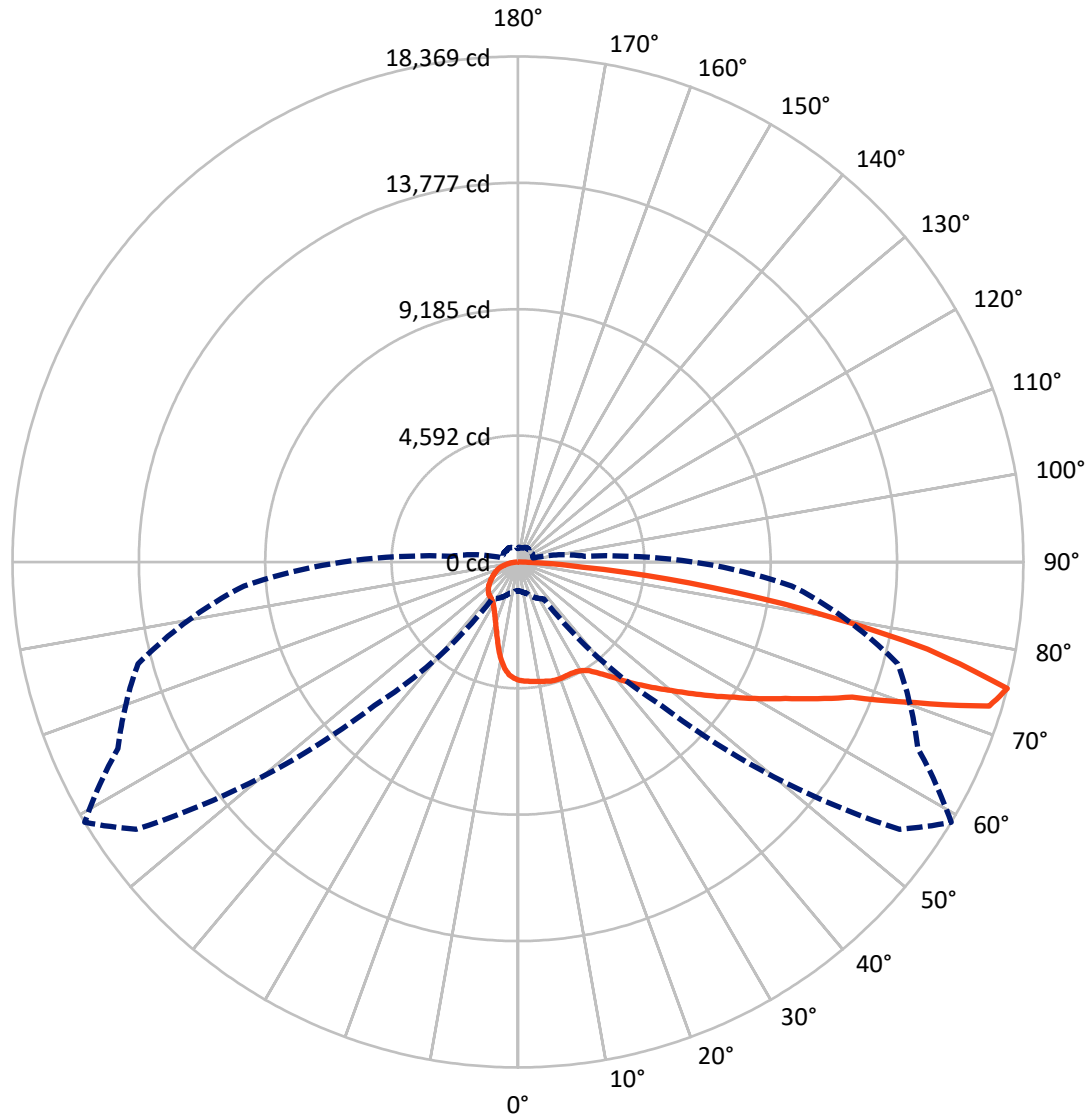
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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 | 4394.5 | 0.0 | 4394.5 |
| | % Fixture | 18.8 | 0.0 | 18.8 |
| Street Side | Lumens | 19035.6 | 0.0 | 19035.6 |
| | % Fixture | 81.2 | 0.0 | 81.2 |
| Total | Lumens | 23430.0 | 0.0 | 23430.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 385.6 | 1.6 |
| 10°-20° | 985.6 | 4.2 |
| 20°-30° | 1497.1 | 6.4 |
| 30°-40° | 2225.4 | 9.5 |
| 40°-50° | 3309.6 | 14.1 |
| 50°-60° | 4492.4 | 19.2 |
| 60°-70° | 5484.5 | 23.4 |
| 70°-80° | 4304.1 | 18.4 |
| 80°-90° | 745.6 | 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° | 23430.0 | 100.0 |
| 0°-180° | 23430.0 | 100.0 |

Coefficient of Utilization



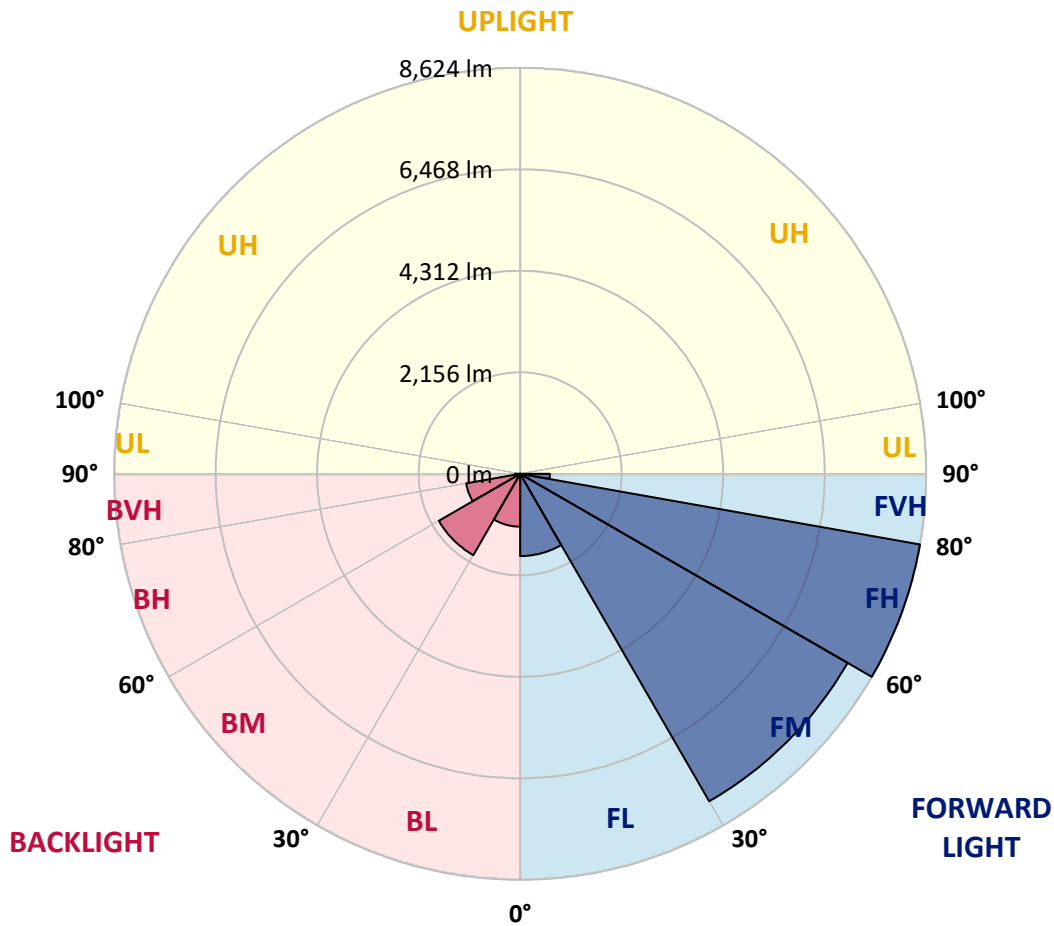
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1747.0 | 7.5 | | | |
| FM (30°-60°) | 8032.8 | 34.3 | | | |
| FH (60°-80°) | 8624.4 | 36.8 | | | G4/12000 |
| FVH (80°-90°) | 631.5 | 2.7 | | | G4/750 |
| BL (0°-30°) | 1121.4 | 4.8 | B3/2500 | | |
| BM (30°-60°) | 1994.7 | 8.5 | B2/2500 | | |
| BH (60°-80°) | 1164.3 | 5.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 114.1 | 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° | 4300.5 | 4300.5 | 4300.5 | 4300.5 | 4300.5 | 4300.5 | 4300.5 | 4300.5 | 4300.5 | 4300.5 |
| 2.5° | 4337.1 | 4322.0 | 4337.1 | 4330.8 | 4328.3 | 4323.2 | 4324.5 | 4333.3 | 4328.3 | 4334.6 |
| 5° | 4308.1 | 4299.3 | 4314.4 | 4310.6 | 4327.0 | 4329.5 | 4345.9 | 4356.0 | 4362.3 | 4363.5 |
| 7.5° | 4260.2 | 4251.4 | 4272.8 | 4290.4 | 4325.7 | 4335.8 | 4369.8 | 4386.2 | 4395.1 | 4410.2 |
| 10° | 4085.0 | 4081.2 | 4134.1 | 4201.0 | 4284.1 | 4335.8 | 4387.5 | 4415.2 | 4429.1 | 4469.4 |
| 12.5° | 3774.9 | 3780.0 | 3849.3 | 3977.9 | 4144.2 | 4310.6 | 4407.7 | 4448.0 | 4469.4 | 4519.8 |
| 15° | 3478.7 | 3477.5 | 3553.1 | 3690.5 | 3923.7 | 4199.7 | 4417.7 | 4487.1 | 4523.6 | 4598.0 |
| 17.5° | 3307.3 | 3302.3 | 3355.2 | 3459.8 | 3676.6 | 4029.5 | 4392.5 | 4508.5 | 4586.6 | 4679.9 |
| 20° | 3275.8 | 3265.7 | 3293.5 | 3345.1 | 3498.9 | 3843.0 | 4327.0 | 4508.5 | 4637.1 | 4758.1 |
| 22.5° | 3390.5 | 3374.1 | 3362.8 | 3356.5 | 3424.5 | 3689.2 | 4252.6 | 4493.4 | 4711.4 | 4870.2 |
| 25° | 3621.2 | 3596.0 | 3538.0 | 3481.3 | 3461.1 | 3619.9 | 4187.1 | 4489.6 | 4822.3 | 5021.5 |
| 27.5° | 3994.2 | 3962.7 | 3845.5 | 3709.4 | 3587.1 | 3655.2 | 4158.1 | 4512.3 | 4944.6 | 5181.6 |
| 30° | 4456.8 | 4422.8 | 4275.3 | 4066.1 | 3846.8 | 3786.3 | 4194.6 | 4579.1 | 5100.9 | 5394.6 |
| 32.5° | 4871.5 | 4833.7 | 4707.6 | 4494.6 | 4198.4 | 4013.2 | 4310.6 | 4706.4 | 5346.7 | 5690.8 |
| 35° | 5239.5 | 5195.4 | 5082.0 | 4885.4 | 4629.5 | 4332.0 | 4519.8 | 4932.0 | 5695.8 | 6172.2 |
| 37.5° | 5600.0 | 5548.3 | 5424.8 | 5216.8 | 5037.9 | 4756.8 | 4808.5 | 5221.9 | 6159.6 | 6757.1 |
| 40° | 6003.3 | 5929.0 | 5779.0 | 5573.5 | 5399.6 | 5254.7 | 5187.9 | 5577.3 | 6631.0 | 7410.0 |
| 42.5° | 6394.1 | 6323.5 | 6144.5 | 5969.3 | 5751.3 | 5709.7 | 5627.7 | 5993.3 | 7146.5 | 8127.1 |
| 45° | 6815.0 | 6730.6 | 6513.8 | 6292.0 | 6154.6 | 6012.2 | 6053.8 | 6409.2 | 7652.0 | 8858.2 |
| 47.5° | 7209.6 | 7115.0 | 6859.2 | 6612.1 | 6536.5 | 6266.8 | 6444.5 | 6866.7 | 8177.6 | 9599.3 |
| 50° | 7422.6 | 7329.3 | 7116.3 | 6893.2 | 6834.0 | 6580.6 | 6868.0 | 7369.6 | 8728.4 | 10337.9 |
| 52.5° | 7600.3 | 7499.4 | 7220.9 | 7097.4 | 7079.7 | 6922.2 | 7389.8 | 7944.4 | 9279.2 | 10990.8 |
| 55° | 7789.3 | 7677.2 | 7321.7 | 7210.8 | 7291.5 | 7305.3 | 8008.7 | 8596.0 | 9861.5 | 11627.3 |
| 57.5° | 8007.4 | 7865.0 | 7418.8 | 7306.6 | 7498.2 | 7754.1 | 8719.5 | 9271.6 | 10433.7 | 12217.2 |
| 60° | 8212.8 | 8069.2 | 7605.3 | 7459.1 | 7721.3 | 8274.6 | 9535.0 | 10089.6 | 11081.5 | 12742.8 |
| 62.5° | 8253.2 | 8134.7 | 7754.1 | 7752.8 | 8023.8 | 8882.1 | 10500.5 | 10915.2 | 11647.5 | 13262.1 |
| 65° | 7554.9 | 7480.5 | 7254.9 | 7741.4 | 8457.4 | 9756.8 | 11575.6 | 11971.4 | 12367.2 | 13715.8 |
| 67.5° | 5750.0 | 5760.1 | 5743.7 | 6682.7 | 8107.0 | 11013.5 | 13132.2 | 13102.0 | 13255.7 | 14225.0 |
| 70° | 2629.2 | 2688.5 | 3074.1 | 4613.1 | 6494.9 | 11158.4 | 15706.0 | 15314.0 | 14371.2 | 14884.2 |
| 72.5° | 1420.5 | 1465.9 | 1623.4 | 2234.7 | 3904.8 | 9920.7 | 17629.4 | 17907.9 | 15854.7 | 15327.9 |
| 75° | 1042.4 | 1067.6 | 1177.2 | 1420.5 | 1639.8 | 7373.4 | 16939.9 | 18369.2 | 16040.0 | 14293.1 |
| 77.5° | 780.2 | 791.5 | 881.0 | 1125.5 | 839.4 | 3887.1 | 13535.6 | 15213.2 | 13730.9 | 11743.3 |
| 80° | 565.9 | 578.5 | 645.3 | 844.5 | 588.6 | 1421.7 | 9294.3 | 10678.2 | 9403.9 | 7485.6 |
| 82.5° | 390.7 | 395.8 | 424.8 | 574.7 | 410.9 | 552.1 | 5273.6 | 6261.7 | 5249.6 | 2626.7 |
| 85° | 235.7 | 242.0 | 254.6 | 335.3 | 233.2 | 262.2 | 2276.3 | 2354.4 | 1569.2 | 627.7 |
| 87.5° | 97.1 | 103.4 | 113.4 | 141.2 | 92.0 | 73.1 | 375.6 | 471.4 | 293.7 | 184.0 |
| 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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 CATALOG NUMBER: GALN-SB5A-750-U-SL3

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4300.5 | 0° | 4300.5 | 4300.5 | 4300.5 | 4300.5 | 4300.5 | 4300.5 | 4300.5 | 4300.5 | 4300.5 | 4300.5 |
| 4313.1 | 2.5° | 4306.8 | 4298.0 | 4274.1 | 4241.3 | 4211.0 | 4173.2 | 4156.8 | 4143.0 | 4130.4 | 4106.4 |
| 4347.2 | 5° | 4333.3 | 4309.3 | 4245.1 | 4161.9 | 4067.3 | 3964.0 | 3863.2 | 3793.8 | 3734.6 | 3690.5 |
| 4386.2 | 7.5° | 4373.6 | 4328.3 | 4211.0 | 4040.9 | 3824.1 | 3602.3 | 3401.9 | 3259.4 | 3152.3 | 3113.2 |
| 4441.7 | 10° | 4415.2 | 4361.0 | 4156.8 | 3856.9 | 3482.5 | 3140.9 | 2875.0 | 2728.8 | 2643.1 | 2615.4 |
| 4507.2 | 12.5° | 4464.4 | 4385.0 | 4072.4 | 3601.0 | 3100.6 | 2726.3 | 2494.4 | 2408.6 | 2364.5 | 2349.4 |
| 4587.9 | 15° | 4536.2 | 4405.1 | 3945.1 | 3280.9 | 2736.4 | 2423.8 | 2273.8 | 2214.5 | 2191.9 | 2190.6 |
| 4671.1 | 17.5° | 4590.4 | 4408.9 | 3747.2 | 2938.0 | 2456.5 | 2241.0 | 2117.5 | 2094.8 | 2109.9 | 2132.6 |
| 4753.0 | 20° | 4650.9 | 4374.9 | 3487.6 | 2625.4 | 2259.9 | 2080.9 | 2029.3 | 2044.4 | 2080.9 | 2113.7 |
| 4861.4 | 22.5° | 4693.8 | 4313.1 | 3173.7 | 2382.2 | 2089.8 | 1988.9 | 1986.4 | 2017.9 | 2038.1 | 2054.5 |
| 4988.7 | 25° | 4731.6 | 4208.5 | 2841.0 | 2178.0 | 1949.9 | 1933.5 | 1961.2 | 1951.1 | 1937.3 | 1951.1 |
| 5116.0 | 27.5° | 4759.3 | 4043.4 | 2543.5 | 1999.0 | 1851.5 | 1895.7 | 1879.3 | 1856.6 | 1855.3 | 1862.9 |
| 5266.0 | 30° | 4750.5 | 3822.8 | 2299.0 | 1828.9 | 1782.2 | 1825.1 | 1786.0 | 1782.2 | 1778.4 | 1782.2 |
| 5491.6 | 32.5° | 4750.5 | 3572.0 | 2111.2 | 1711.6 | 1738.1 | 1721.7 | 1717.9 | 1709.1 | 1694.0 | 1692.7 |
| 5797.9 | 35° | 4777.0 | 3321.2 | 1949.9 | 1648.6 | 1701.6 | 1662.5 | 1665.0 | 1643.6 | 1612.1 | 1596.9 |
| 6203.7 | 37.5° | 4831.2 | 3119.5 | 1789.8 | 1618.4 | 1637.3 | 1636.0 | 1625.9 | 1589.4 | 1533.9 | 1486.0 |
| 6710.4 | 40° | 4962.2 | 3060.3 | 1680.1 | 1604.5 | 1607.0 | 1622.1 | 1595.7 | 1525.1 | 1399.1 | 1320.9 |
| 7224.7 | 42.5° | 5167.7 | 3159.9 | 1656.2 | 1570.5 | 1586.9 | 1602.0 | 1550.3 | 1386.5 | 1297.0 | 1250.3 |
| 7764.1 | 45° | 5428.6 | 3333.8 | 1707.9 | 1521.3 | 1539.0 | 1565.4 | 1411.7 | 1333.5 | 1293.2 | 1294.4 |
| 8298.5 | 47.5° | 5758.8 | 3516.5 | 1803.6 | 1478.5 | 1469.6 | 1484.8 | 1319.7 | 1271.8 | 1216.3 | 1230.2 |
| 8811.5 | 50° | 6140.7 | 3701.8 | 1894.4 | 1420.5 | 1392.8 | 1343.6 | 1260.4 | 1215.0 | 1144.5 | 1111.7 |
| 9306.9 | 52.5° | 6554.1 | 3880.8 | 1931.0 | 1349.9 | 1309.6 | 1252.8 | 1220.1 | 1164.6 | 1078.9 | 1024.7 |
| 9774.5 | 55° | 6946.1 | 4043.4 | 1890.6 | 1265.5 | 1226.4 | 1182.3 | 1177.2 | 1143.2 | 1051.2 | 975.6 |
| 10190.4 | 57.5° | 7316.7 | 4179.5 | 1789.8 | 1179.7 | 1141.9 | 1115.5 | 1149.5 | 1133.1 | 1017.2 | 920.1 |
| 10583.7 | 60° | 7630.5 | 4272.8 | 1643.6 | 1092.8 | 1066.3 | 1052.4 | 1104.1 | 1099.1 | 969.3 | 860.9 |
| 10936.6 | 62.5° | 7880.1 | 4309.3 | 1482.2 | 1009.6 | 1003.3 | 978.1 | 1041.1 | 1041.1 | 908.8 | 802.9 |
| 11246.7 | 65° | 8075.5 | 4274.1 | 1318.4 | 927.7 | 940.3 | 902.5 | 964.2 | 956.7 | 844.5 | 751.2 |
| 11603.3 | 67.5° | 8248.1 | 4158.1 | 1136.9 | 847.0 | 876.0 | 828.1 | 883.5 | 865.9 | 773.9 | 699.5 |
| 11912.1 | 70° | 8325.0 | 3888.4 | 930.2 | 766.3 | 801.6 | 755.0 | 802.9 | 770.1 | 694.5 | 644.1 |
| 11573.1 | 72.5° | 7707.4 | 3231.7 | 732.3 | 681.9 | 712.1 | 674.3 | 715.9 | 678.1 | 608.8 | 586.1 |
| 9993.8 | 75° | 6376.4 | 2425.0 | 563.4 | 589.9 | 612.6 | 583.6 | 611.3 | 583.6 | 520.5 | 536.9 |
| 7382.2 | 77.5° | 4630.8 | 1637.3 | 431.1 | 492.8 | 502.9 | 487.8 | 511.7 | 480.2 | 423.5 | 419.7 |
| 3679.1 | 80° | 2302.8 | 959.2 | 337.8 | 389.5 | 385.7 | 375.6 | 403.3 | 388.2 | 340.3 | 360.5 |
| 993.2 | 82.5° | 666.8 | 410.9 | 245.8 | 273.5 | 265.9 | 268.5 | 288.6 | 296.2 | 443.7 | 439.9 |
| 308.8 | 85° | 209.2 | 161.3 | 147.5 | 152.5 | 144.9 | 148.7 | 170.2 | 337.8 | 312.6 | 182.8 |
| 95.8 | 87.5° | 54.2 | 55.5 | 36.6 | 39.1 | 40.3 | 47.9 | 54.2 | 205.4 | 98.3 | 64.3 |
| 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> |
|-------------|
| 4300.5 |
| 4095.1 |
| 3653.9 |
| 3045.2 |
| 2572.5 |
| 2353.2 |
| 2195.6 |
| 2141.4 |
| 2125.1 |
| 2063.3 |
| 1959.9 |
| 1875.5 |
| 1796.1 |
| 1709.1 |
| 1612.1 |
| 1502.4 |
| 1331.0 |
| 1250.3 |
| 1300.7 |
| 1265.5 |
| 1120.5 |
| 1023.5 |
| 975.6 |
| 915.1 |
| 857.1 |
| 799.1 |
| 746.2 |
| 694.5 |
| 634.0 |
| 567.2 |
| 490.3 |
| 400.8 |
| 356.7 |
| 450.0 |
| 197.9 |
| 68.1 |
| 0.0 |

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