

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: P944406

Luminaire Tested: **GALN-SB9B-830-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944406
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9B-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36144 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

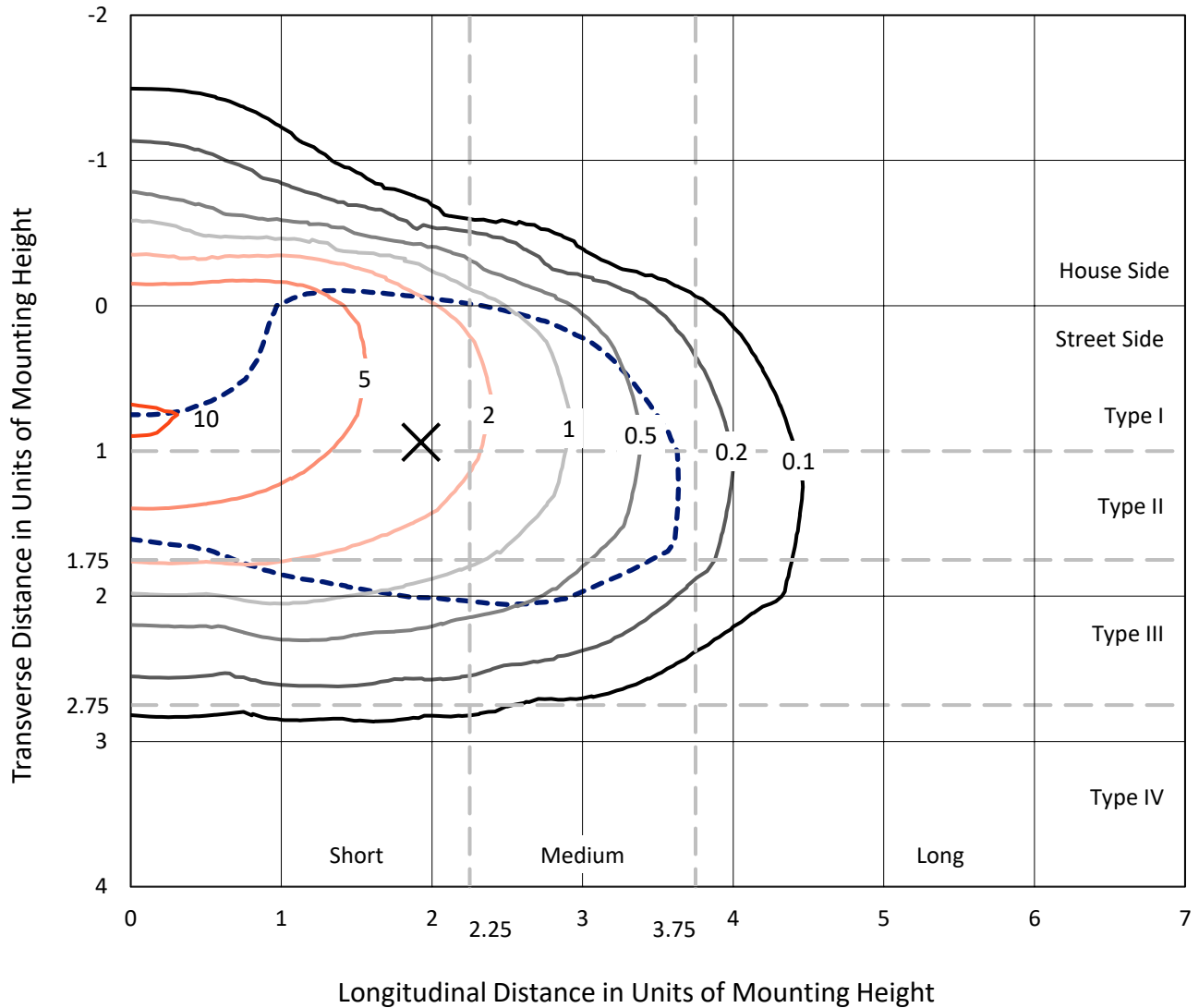
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

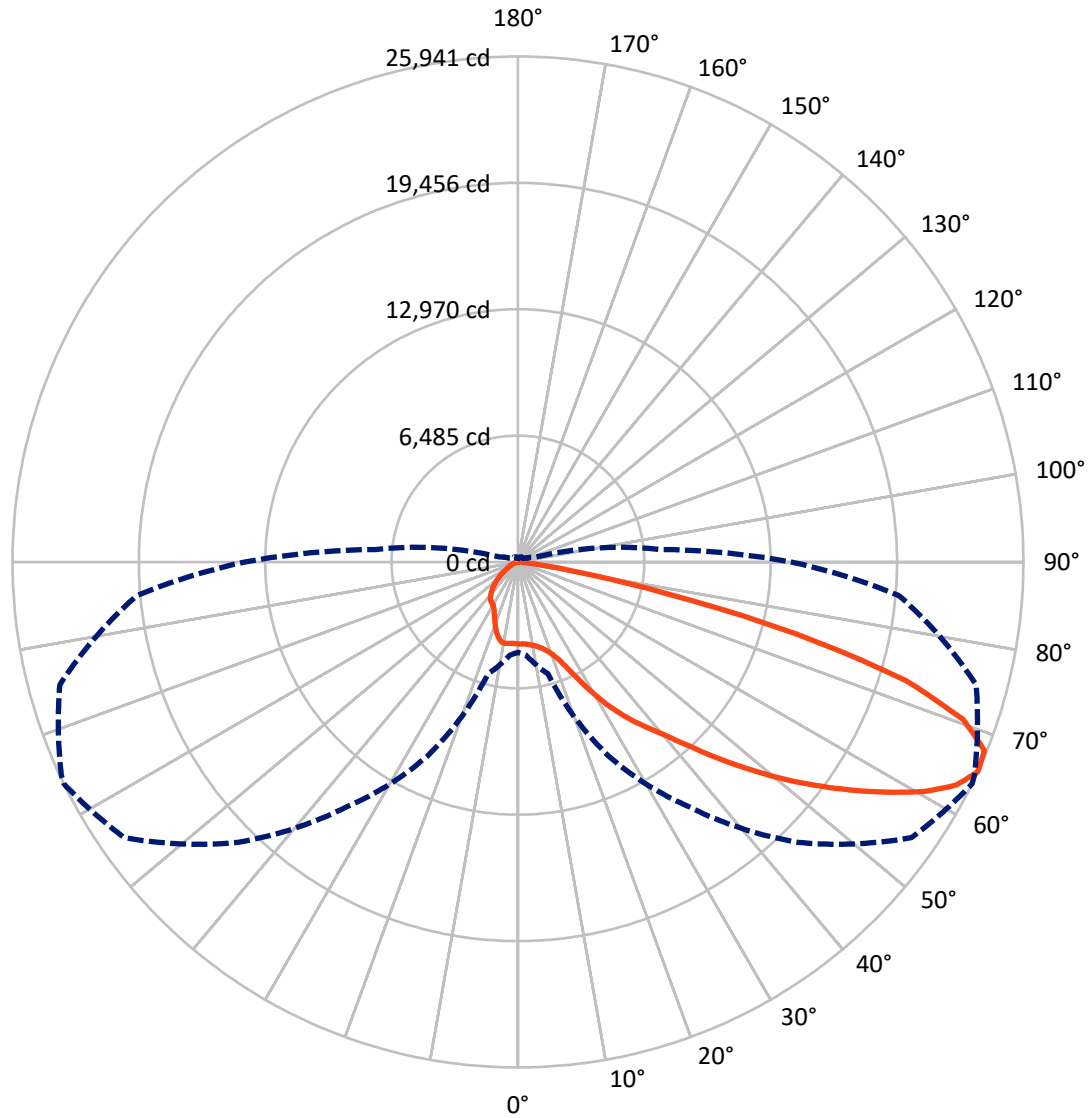
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4833.5 | 0.0 | 4833.5 |
| | % Fixture | 13.4 | 0.0 | 13.4 |
| Street Side | Lumens | 31310.5 | 0.0 | 31310.5 |
| | % Fixture | 86.6 | 0.0 | 86.6 |
| Total | Lumens | 36144.0 | 0.0 | 36144.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 387.9 | 1.1 |
| 10°-20° | 1052.0 | 2.9 |
| 20°-30° | 1993.4 | 5.5 |
| 30°-40° | 4033.7 | 11.2 |
| 40°-50° | 6871.4 | 19.0 |
| 50°-60° | 9344.6 | 25.9 |
| 60°-70° | 8775.1 | 24.3 |
| 70°-80° | 3515.7 | 9.7 |
| 80°-90° | 170.3 | 0.5 |
| 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° | 36144.0 | 100.0 |
| 0°-180° | 36144.0 | 100.0 |

Coefficient of Utilization



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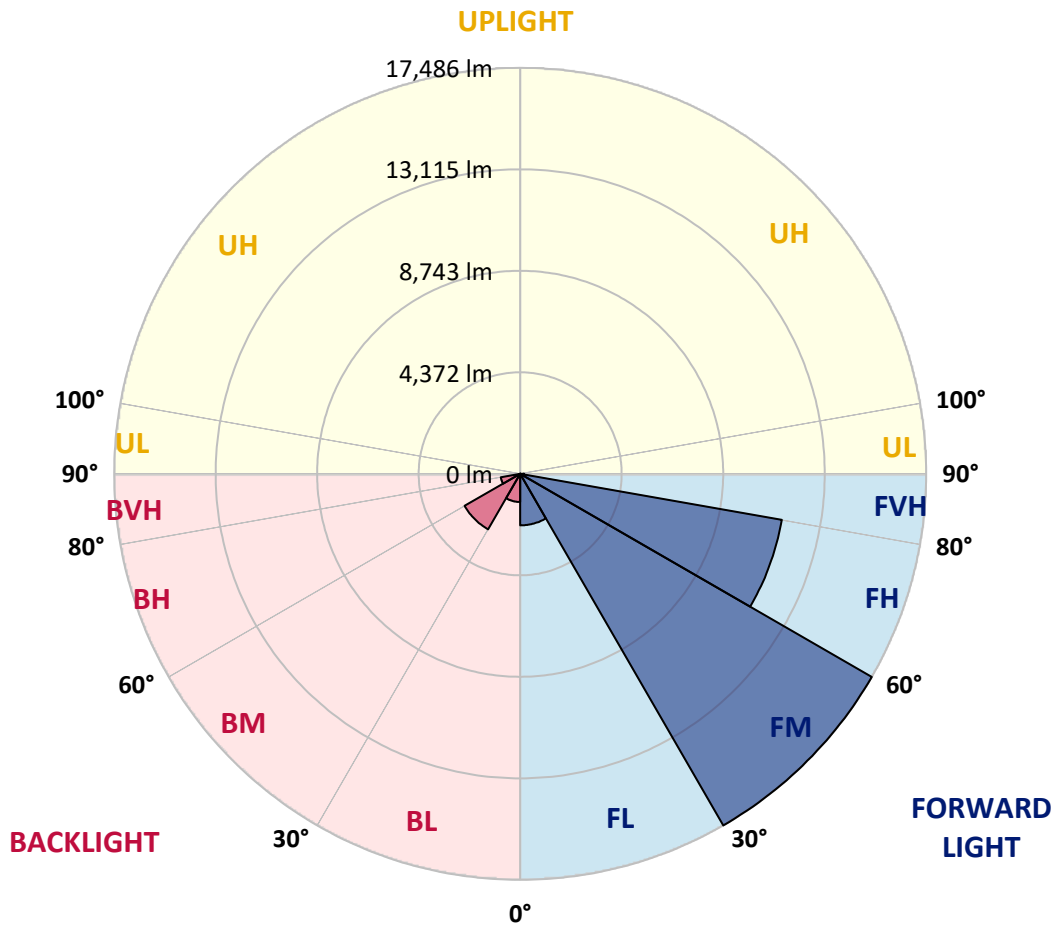
CATALOG NUMBER: GALN-SB9B-830-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2219.7 | 6.1 | | | |
| FM (30°-60°) | 17486.4 | 48.4 | | | |
| FH (60°-80°) | 11442.4 | 31.7 | | | G4/12000 |
| FVH (80°-90°) | 162.0 | 0.4 | | | G2/225 |
| BL (0°-30°) | 1213.6 | 3.4 | B3/2500 | | |
| BM (30°-60°) | 2763.3 | 7.6 | B3/5000 | | |
| BH (60°-80°) | 848.4 | 2.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 8.3 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4203.9 | 4203.9 | 4203.9 | 4203.9 | 4203.9 | 4203.9 | 4203.9 | 4203.9 | 4203.9 | 4203.9 |
| 2.5° | 4189.4 | 4218.5 | 4211.2 | 4203.9 | 4201.5 | 4206.3 | 4208.8 | 4206.3 | 4206.3 | 4206.3 |
| 5° | 4109.4 | 4133.7 | 4133.7 | 4150.6 | 4174.8 | 4203.9 | 4225.7 | 4230.6 | 4235.4 | 4242.7 |
| 7.5° | 3956.8 | 3976.2 | 3990.7 | 4046.4 | 4107.0 | 4184.5 | 4250.0 | 4283.9 | 4288.7 | 4315.4 |
| 10° | 3852.6 | 3876.8 | 3901.0 | 3959.2 | 4046.4 | 4162.7 | 4274.2 | 4356.6 | 4368.7 | 4431.7 |
| 12.5° | 3847.7 | 3872.0 | 3903.5 | 3966.5 | 4068.2 | 4191.8 | 4327.5 | 4446.2 | 4468.0 | 4560.1 |
| 15° | 3898.6 | 3927.7 | 3956.8 | 4034.3 | 4143.3 | 4293.6 | 4439.0 | 4586.8 | 4608.6 | 4739.4 |
| 17.5° | 4002.8 | 4041.6 | 4063.4 | 4140.9 | 4257.2 | 4424.4 | 4615.8 | 4785.4 | 4804.8 | 4957.5 |
| 20° | 4208.8 | 4254.8 | 4262.1 | 4325.1 | 4439.0 | 4618.3 | 4846.0 | 5056.8 | 5081.1 | 5255.5 |
| 22.5° | 4635.2 | 4700.6 | 4642.5 | 4674.0 | 4775.8 | 4955.1 | 5202.2 | 5468.7 | 5502.7 | 5701.3 |
| 25° | 5386.4 | 5478.4 | 5328.2 | 5274.9 | 5318.5 | 5505.1 | 5815.2 | 6152.0 | 6190.8 | 6350.7 |
| 27.5° | 6862.0 | 6743.2 | 6515.5 | 6292.6 | 6161.7 | 6268.3 | 6617.2 | 7034.0 | 7082.5 | 7237.5 |
| 30° | 8483.0 | 8378.8 | 8071.0 | 7576.8 | 7266.6 | 7249.6 | 7571.9 | 8037.1 | 8092.9 | 8240.7 |
| 32.5° | 10106.4 | 10007.0 | 9672.7 | 9064.5 | 8526.6 | 8260.0 | 8483.0 | 8999.1 | 9028.1 | 9122.6 |
| 35° | 11703.1 | 11601.4 | 11267.0 | 10644.3 | 9982.8 | 9377.0 | 9333.4 | 9915.0 | 9924.6 | 10024.0 |
| 37.5° | 13309.6 | 13224.8 | 12868.6 | 12258.0 | 11606.2 | 10770.3 | 10365.6 | 10782.4 | 10794.5 | 10891.4 |
| 40° | 14455.7 | 14492.0 | 14247.3 | 13774.8 | 13215.1 | 12301.6 | 11523.8 | 11705.6 | 11632.9 | 11795.2 |
| 42.5° | 15439.4 | 15512.1 | 15298.9 | 15061.4 | 14736.7 | 13932.3 | 12958.3 | 12926.8 | 12810.5 | 12897.7 |
| 45° | 16289.9 | 16350.5 | 16159.1 | 16103.3 | 16096.1 | 15531.5 | 14525.9 | 14337.0 | 14174.6 | 14157.6 |
| 47.5° | 16602.5 | 16718.8 | 16801.2 | 16987.7 | 17351.2 | 17113.7 | 16146.9 | 15853.8 | 15672.0 | 15538.8 |
| 50° | 16721.2 | 16844.8 | 17125.8 | 17668.6 | 18528.8 | 18630.5 | 17760.7 | 17431.1 | 17208.2 | 16965.9 |
| 52.5° | 16561.3 | 16781.8 | 17159.8 | 18073.2 | 19321.1 | 19846.9 | 19309.0 | 19020.6 | 18766.2 | 18371.3 |
| 55° | 15618.7 | 15839.2 | 16612.2 | 18068.4 | 19716.0 | 20699.8 | 20772.5 | 20644.0 | 20358.1 | 19735.4 |
| 57.5° | 13631.9 | 13959.0 | 15182.6 | 17452.9 | 19708.8 | 21433.9 | 22206.9 | 22299.0 | 21979.1 | 21087.5 |
| 60° | 10879.3 | 11322.7 | 12815.3 | 16088.8 | 19100.6 | 21831.3 | 23464.4 | 23924.8 | 23585.6 | 22420.1 |
| 62.5° | 7591.3 | 8105.0 | 9517.6 | 13951.7 | 17709.8 | 21545.4 | 24382.8 | 25233.2 | 24976.4 | 23612.2 |
| 65° | 4630.4 | 4795.1 | 5934.0 | 10978.7 | 15344.9 | 20348.4 | 24666.2 | 25940.7 | 25855.9 | 24341.6 |
| 67.5° | 3084.5 | 3222.6 | 3549.7 | 7528.3 | 11911.5 | 17956.9 | 23987.8 | 25817.2 | 25841.4 | 24222.8 |
| 70° | 1858.4 | 1977.2 | 2190.4 | 4378.4 | 7719.7 | 14213.4 | 21887.1 | 24242.2 | 24382.8 | 22635.8 |
| 72.5° | 765.7 | 845.6 | 1039.5 | 1984.4 | 3998.0 | 9020.9 | 17428.7 | 20813.7 | 21140.8 | 19032.7 |
| 75° | 433.7 | 474.9 | 610.6 | 995.9 | 1734.9 | 4203.9 | 10557.1 | 14775.5 | 15257.7 | 13118.2 |
| 77.5° | 288.3 | 307.7 | 395.0 | 644.5 | 976.5 | 1434.4 | 4511.6 | 7697.9 | 8618.6 | 7164.8 |
| 80° | 193.8 | 210.8 | 271.4 | 431.3 | 634.8 | 615.4 | 1436.8 | 2851.9 | 3508.5 | 2461.8 |
| 82.5° | 130.8 | 133.3 | 193.8 | 283.5 | 402.2 | 298.0 | 424.0 | 886.8 | 1114.6 | 712.4 |
| 85° | 75.1 | 72.7 | 143.0 | 164.8 | 179.3 | 123.6 | 128.4 | 266.5 | 348.9 | 300.5 |
| 87.5° | 9.7 | 14.5 | 55.7 | 43.6 | 24.2 | 26.7 | 26.7 | 46.0 | 67.8 | 72.7 |
| 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° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4203.9 | 0° | 4203.9 | 4203.9 | 4203.9 | 4203.9 | 4203.9 | 4203.9 | 4203.9 | 4203.9 | 4203.9 | 4203.9 |
| 4208.8 | 2.5° | 4208.8 | 4206.3 | 4199.1 | 4191.8 | 4174.8 | 4165.2 | 4170.0 | 4165.2 | 4162.7 | 4165.2 |
| 4240.3 | 5° | 4240.3 | 4233.0 | 4213.6 | 4189.4 | 4155.5 | 4114.3 | 4087.6 | 4048.8 | 4012.5 | 3990.7 |
| 4325.1 | 7.5° | 4325.1 | 4317.8 | 4291.2 | 4223.3 | 4114.3 | 3942.2 | 3784.7 | 3646.6 | 3542.4 | 3481.9 |
| 4460.8 | 10° | 4460.8 | 4448.6 | 4407.5 | 4257.2 | 3971.3 | 3595.7 | 3283.2 | 3023.9 | 2854.3 | 2774.3 |
| 4620.7 | 12.5° | 4620.7 | 4606.1 | 4533.5 | 4225.7 | 3699.9 | 3113.6 | 2682.3 | 2393.9 | 2236.4 | 2166.2 |
| 4804.8 | 15° | 4809.7 | 4790.3 | 4647.3 | 4075.5 | 3305.0 | 2580.5 | 2185.6 | 1969.9 | 1868.1 | 1805.1 |
| 5039.9 | 17.5° | 5044.7 | 5010.8 | 4732.1 | 3850.2 | 2876.1 | 2173.4 | 1880.3 | 1717.9 | 1628.3 | 1567.7 |
| 5347.6 | 20° | 5350.0 | 5294.3 | 4800.0 | 3581.2 | 2481.2 | 1916.6 | 1674.3 | 1538.6 | 1470.8 | 1417.5 |
| 5783.7 | 22.5° | 5776.5 | 5696.5 | 4882.4 | 3290.4 | 2202.5 | 1739.7 | 1521.7 | 1422.3 | 1366.6 | 1306.0 |
| 6391.9 | 25° | 6304.7 | 6210.2 | 4984.1 | 3021.5 | 2011.1 | 1587.1 | 1410.2 | 1327.8 | 1262.4 | 1192.1 |
| 7189.1 | 27.5° | 7043.7 | 6874.1 | 5105.3 | 2801.0 | 1846.3 | 1456.2 | 1308.4 | 1216.4 | 1141.2 | 1083.1 |
| 8092.9 | 30° | 7867.5 | 7588.9 | 5211.9 | 2667.7 | 1696.1 | 1335.1 | 1175.2 | 1083.1 | 1012.8 | 971.6 |
| 8904.6 | 32.5° | 8647.7 | 8269.7 | 5282.2 | 2609.6 | 1560.4 | 1197.0 | 1029.8 | 930.4 | 877.1 | 865.0 |
| 9699.3 | 35° | 9384.3 | 8885.2 | 5274.9 | 2553.9 | 1439.3 | 1058.9 | 886.8 | 785.1 | 743.9 | 751.1 |
| 10554.6 | 37.5° | 10232.4 | 9541.8 | 5224.0 | 2466.6 | 1339.9 | 932.9 | 763.2 | 673.6 | 637.3 | 639.7 |
| 11594.1 | 40° | 11218.5 | 10300.2 | 5192.5 | 2301.9 | 1230.9 | 816.6 | 661.5 | 588.8 | 562.1 | 552.4 |
| 12689.3 | 42.5° | 12270.1 | 11034.4 | 5197.4 | 2115.3 | 1095.2 | 712.4 | 591.2 | 530.6 | 506.4 | 499.1 |
| 13908.1 | 45° | 13326.6 | 11734.6 | 5204.6 | 1921.4 | 952.2 | 632.4 | 540.3 | 489.4 | 474.9 | 465.2 |
| 15143.8 | 47.5° | 14320.0 | 12330.7 | 5068.9 | 1713.1 | 811.7 | 571.8 | 499.1 | 465.2 | 453.1 | 441.0 |
| 16384.4 | 50° | 15245.6 | 12728.1 | 4741.8 | 1470.8 | 700.2 | 523.4 | 467.6 | 443.4 | 431.3 | 419.2 |
| 17508.7 | 52.5° | 15965.2 | 12791.1 | 4201.5 | 1221.2 | 622.7 | 487.0 | 448.3 | 426.4 | 411.9 | 399.8 |
| 18417.3 | 55° | 16285.1 | 12396.1 | 3433.4 | 988.6 | 562.1 | 455.5 | 428.9 | 407.1 | 390.1 | 378.0 |
| 19132.1 | 57.5° | 16202.7 | 11565.0 | 2677.4 | 794.7 | 504.0 | 424.0 | 404.6 | 390.1 | 370.7 | 351.3 |
| 19711.2 | 60° | 15798.0 | 10452.9 | 2018.4 | 661.5 | 450.7 | 390.1 | 378.0 | 365.9 | 339.2 | 310.1 |
| 19934.1 | 62.5° | 15097.8 | 9054.8 | 1439.3 | 547.6 | 392.5 | 351.3 | 346.5 | 336.8 | 298.0 | 244.7 |
| 19604.6 | 65° | 14026.8 | 7356.3 | 969.2 | 455.5 | 336.8 | 307.7 | 310.1 | 293.2 | 242.3 | 181.7 |
| 18397.9 | 67.5° | 12461.5 | 5379.1 | 620.3 | 373.1 | 281.1 | 256.8 | 259.3 | 249.6 | 206.0 | 155.1 |
| 16110.6 | 70° | 10467.4 | 3561.8 | 404.6 | 283.5 | 225.3 | 198.7 | 213.2 | 215.6 | 174.5 | 126.0 |
| 12364.6 | 72.5° | 7673.7 | 2103.2 | 283.5 | 210.8 | 164.8 | 138.1 | 174.5 | 179.3 | 140.5 | 94.5 |
| 7438.6 | 75° | 4373.5 | 998.3 | 213.2 | 152.6 | 101.8 | 96.9 | 135.7 | 135.7 | 96.9 | 63.0 |
| 3220.2 | 77.5° | 1836.6 | 416.8 | 150.2 | 99.3 | 58.2 | 55.7 | 92.1 | 84.8 | 48.5 | 29.1 |
| 785.1 | 80° | 530.6 | 186.6 | 80.0 | 48.5 | 24.2 | 21.8 | 36.3 | 26.7 | 12.1 | 4.8 |
| 298.0 | 82.5° | 208.4 | 82.4 | 31.5 | 19.4 | 9.7 | 9.7 | 4.8 | 0.0 | 0.0 | 0.0 |
| 169.6 | 85° | 123.6 | 33.9 | 14.5 | 7.3 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 36.3 | 87.5° | 31.5 | 7.3 | 4.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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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| |
|--------|
| 180° |
| 4203.9 |
| 4174.8 |
| 3995.5 |
| 3484.3 |
| 2767.1 |
| 2158.9 |
| 1807.6 |
| 1562.8 |
| 1407.8 |
| 1296.3 |
| 1184.9 |
| 1071.0 |
| 964.4 |
| 872.3 |
| 751.1 |
| 649.4 |
| 550.0 |
| 496.7 |
| 465.2 |
| 441.0 |
| 419.2 |
| 397.4 |
| 375.6 |
| 348.9 |
| 305.3 |
| 239.9 |
| 176.9 |
| 147.8 |
| 121.2 |
| 89.7 |
| 58.2 |
| 29.1 |
| 4.8 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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