

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: P943722

Luminaire Tested: **GALN-SB8B-830-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943722
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8B-830-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40557 lumens
Efficiency: N/A
Efficacy: 138.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

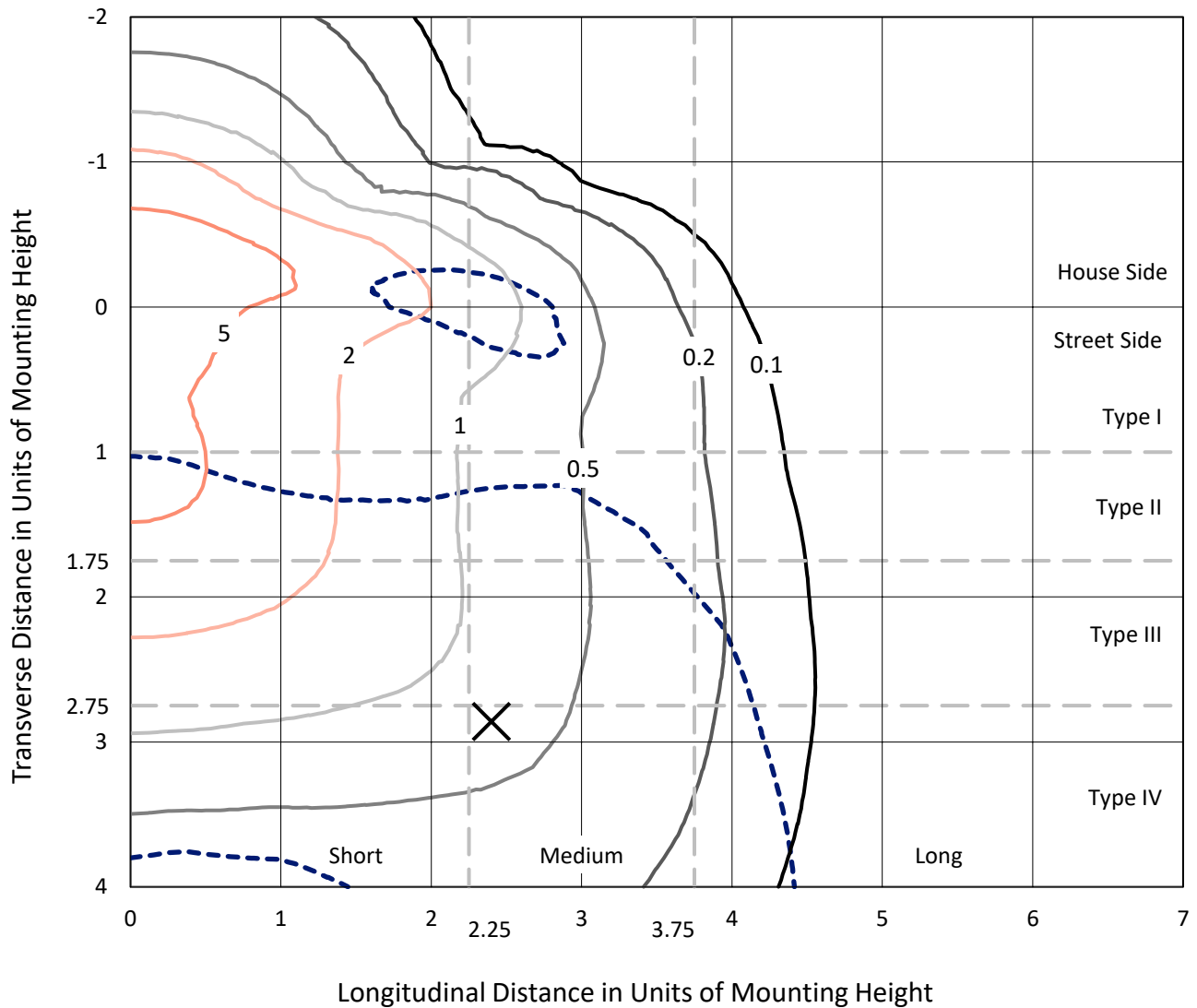
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

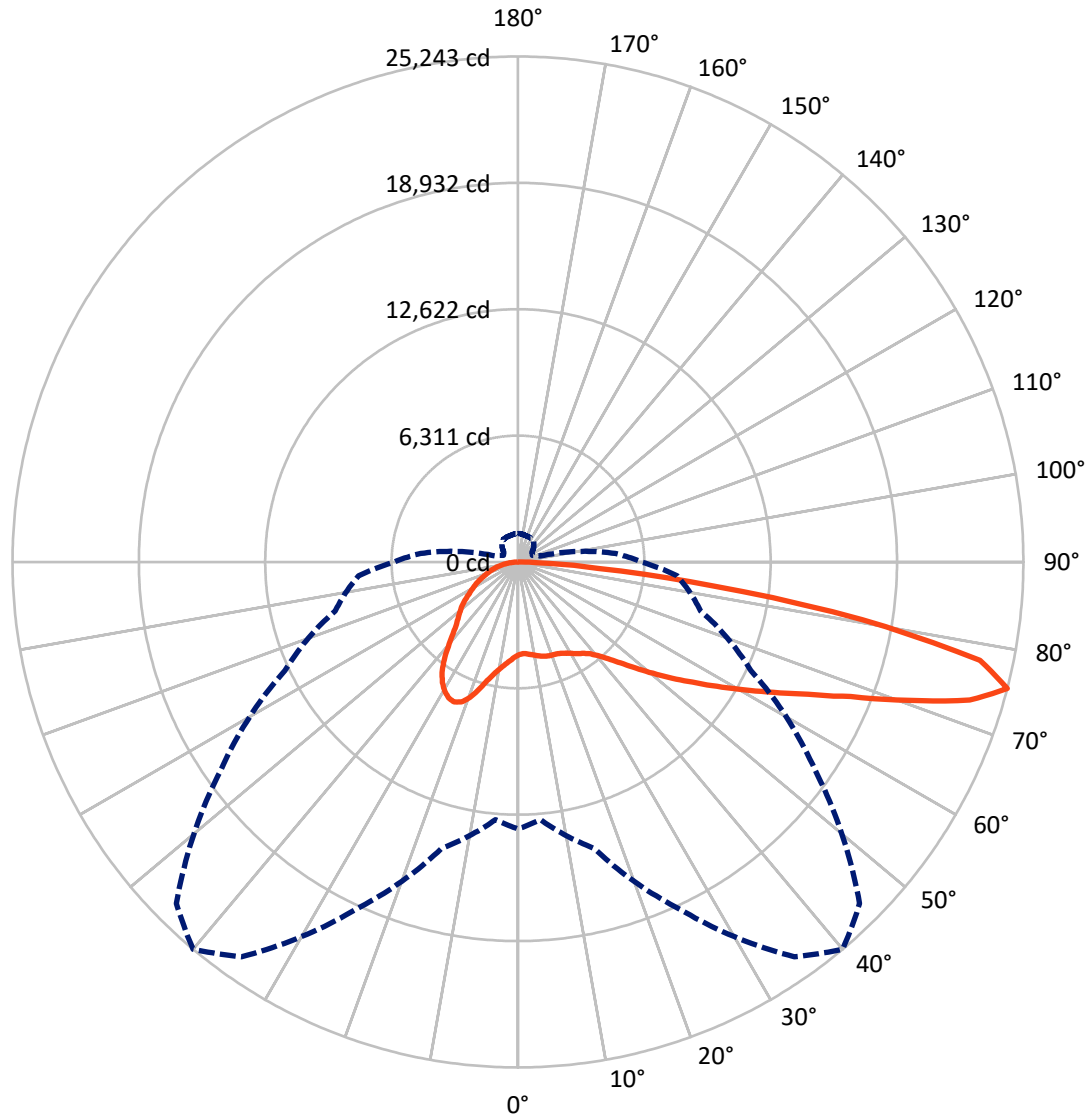
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 12565.9 | 0.0 | 12565.9 |
| | % Fixture | 31.0 | 0.0 | 31.0 |
| Street Side | Lumens | 27991.1 | 0.0 | 27991.1 |
| | % Fixture | 69.0 | 0.0 | 69.0 |
| Total | Lumens | 40557.0 | 0.0 | 40557.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 462.9 | 1.1 |
| 10°-20° | 1554.3 | 3.8 |
| 20°-30° | 2838.0 | 7.0 |
| 30°-40° | 4025.1 | 9.9 |
| 40°-50° | 5435.0 | 13.4 |
| 50°-60° | 7311.6 | 18.0 |
| 60°-70° | 9280.1 | 22.9 |
| 70°-80° | 8422.3 | 20.8 |
| 80°-90° | 1227.7 | 3.0 |
| 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° | 40557.0 | 100.0 |
| 0°-180° | 40557.0 | 100.0 |

Coefficient of Utilization



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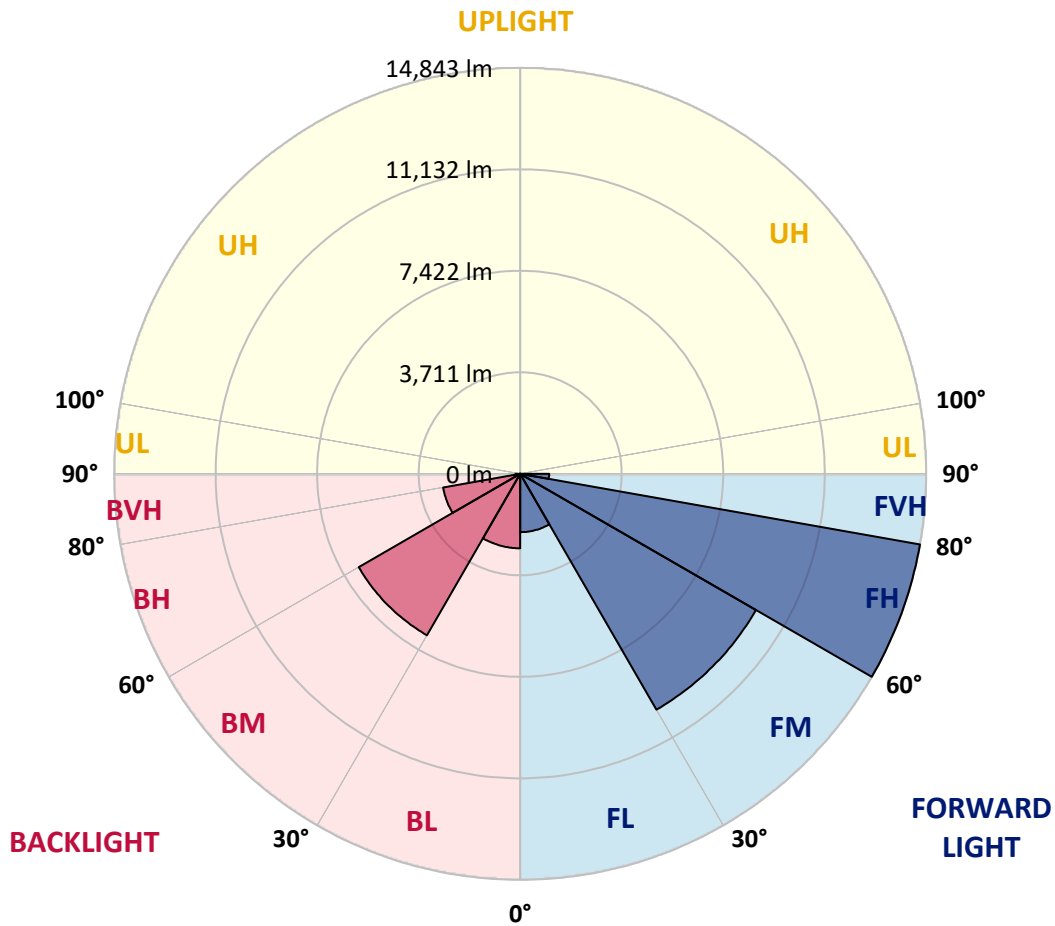
CATALOG NUMBER: GALN-SB8B-830-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2133.3 | 5.3 | | | |
| FM (30°-60°) | 9955.8 | 24.5 | | | |
| FH (60°-80°) | 14843.2 | 36.6 | | | G5 |
| FVH (80°-90°) | 1058.7 | 2.6 | | | G5 |
| BL (0°-30°) | 2721.9 | 6.7 | B4/5000 | | |
| BM (30°-60°) | 6815.9 | 16.8 | B4/8500 | | |
| BH (60°-80°) | 2859.1 | 7.0 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 169.0 | 0.4 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 40° | 45° | 55° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4637.7 | 4637.7 | 4637.7 | 4637.7 | 4637.7 | 4637.7 | 4637.7 | 4637.7 | 4637.7 | 4637.7 |
| 2.5° | 4566.8 | 4592.6 | 4586.1 | 4577.5 | 4577.5 | 4579.7 | 4577.5 | 4592.6 | 4607.6 | 4622.7 |
| 5° | 4614.1 | 4639.9 | 4627.0 | 4616.2 | 4607.6 | 4605.5 | 4599.0 | 4596.9 | 4605.5 | 4624.8 |
| 7.5° | 4706.6 | 4732.4 | 4713.0 | 4693.7 | 4676.5 | 4667.9 | 4659.3 | 4646.4 | 4639.9 | 4650.7 |
| 10° | 4809.8 | 4835.6 | 4812.0 | 4777.6 | 4749.6 | 4738.8 | 4730.2 | 4717.3 | 4708.7 | 4715.2 |
| 12.5° | 4913.1 | 4938.9 | 4906.6 | 4859.3 | 4822.7 | 4816.3 | 4805.5 | 4801.2 | 4799.1 | 4796.9 |
| 15° | 5009.9 | 5031.4 | 4990.5 | 4934.6 | 4895.9 | 4885.1 | 4874.4 | 4880.8 | 4891.6 | 4904.5 |
| 17.5° | 5085.2 | 5106.7 | 5046.5 | 4973.3 | 4936.7 | 4932.4 | 4926.0 | 4947.5 | 4977.6 | 5009.9 |
| 20° | 5154.0 | 5175.5 | 5098.1 | 4999.1 | 4956.1 | 4956.1 | 4958.3 | 5003.4 | 5046.5 | 5093.8 |
| 22.5° | 5250.8 | 5268.0 | 5173.4 | 5037.8 | 4975.5 | 4979.8 | 4997.0 | 5042.2 | 5095.9 | 5160.5 |
| 25° | 5394.9 | 5407.8 | 5291.7 | 5111.0 | 5040.0 | 5052.9 | 5068.0 | 5089.5 | 5141.1 | 5216.4 |
| 27.5° | 5627.2 | 5638.0 | 5485.3 | 5240.1 | 5132.5 | 5154.0 | 5175.5 | 5160.5 | 5184.1 | 5248.7 |
| 30° | 5954.2 | 5960.7 | 5767.1 | 5442.3 | 5289.5 | 5300.3 | 5304.6 | 5242.2 | 5197.0 | 5248.7 |
| 32.5° | 6341.4 | 6339.3 | 6109.1 | 5687.5 | 5468.1 | 5457.3 | 5420.7 | 5298.1 | 5192.7 | 5237.9 |
| 35° | 6941.6 | 6917.9 | 6621.1 | 6031.7 | 5670.3 | 5603.6 | 5517.5 | 5360.5 | 5214.2 | 5227.1 |
| 37.5° | 7935.4 | 7862.2 | 7451.4 | 6595.2 | 5971.4 | 5801.5 | 5674.6 | 5461.6 | 5261.6 | 5222.8 |
| 40° | 9056.1 | 8963.6 | 8511.9 | 7367.5 | 6423.2 | 6150.0 | 5945.6 | 5605.7 | 5339.0 | 5242.2 |
| 42.5° | 10385.5 | 10254.2 | 9768.1 | 8277.4 | 6995.3 | 6599.5 | 6291.9 | 5788.6 | 5453.0 | 5304.6 |
| 45° | 12018.1 | 11843.9 | 11155.5 | 9303.5 | 7716.0 | 7188.9 | 6778.1 | 6066.1 | 5627.2 | 5425.0 |
| 47.5° | 13668.0 | 13711.0 | 12732.3 | 10478.0 | 8580.7 | 7916.0 | 7386.8 | 6483.4 | 5881.1 | 5618.6 |
| 50° | 15421.2 | 15451.3 | 14300.4 | 11779.4 | 9561.6 | 8737.7 | 8070.9 | 6950.2 | 6233.9 | 5894.0 |
| 52.5° | 16789.2 | 16793.5 | 15724.5 | 13141.0 | 10583.4 | 9641.2 | 8808.7 | 7483.6 | 6642.6 | 6259.7 |
| 55° | 17645.4 | 17634.6 | 16722.6 | 14429.5 | 11757.9 | 10589.8 | 9626.1 | 8090.2 | 7141.6 | 6689.9 |
| 57.5° | 18267.0 | 18234.8 | 17410.9 | 15537.3 | 13009.8 | 11710.5 | 10551.1 | 8778.6 | 7731.0 | 7201.8 |
| 60° | 18503.7 | 18484.3 | 17877.7 | 16494.5 | 14326.2 | 12949.6 | 11618.0 | 9548.7 | 8400.0 | 7806.3 |
| 62.5° | 18594.0 | 18630.6 | 18335.9 | 17421.7 | 15735.2 | 14321.9 | 12790.4 | 10469.3 | 9152.9 | 8490.3 |
| 65° | 18912.4 | 18979.1 | 18918.8 | 18634.9 | 17327.0 | 15928.8 | 14345.6 | 11564.3 | 9974.6 | 9223.9 |
| 67.5° | 19542.6 | 19609.3 | 19635.1 | 20086.9 | 19271.6 | 17931.5 | 16285.9 | 12928.0 | 10936.1 | 9985.4 |
| 70° | 19527.6 | 19508.2 | 19964.3 | 21242.0 | 21706.6 | 20704.2 | 18901.6 | 14605.9 | 12082.7 | 10617.8 |
| 72.5° | 17774.4 | 17619.6 | 18697.3 | 21229.1 | 23733.0 | 23599.6 | 22096.0 | 16769.9 | 13072.2 | 10695.2 |
| 75° | 13334.6 | 12921.6 | 14825.3 | 19131.8 | 24070.7 | 25243.0 | 24126.6 | 18112.2 | 12837.7 | 9449.7 |
| 77.5° | 5702.5 | 5287.4 | 7531.0 | 14162.8 | 21543.2 | 23597.4 | 22263.8 | 15801.9 | 10247.8 | 6248.9 |
| 80° | 1492.9 | 1490.7 | 2275.9 | 6421.0 | 14651.1 | 17426.0 | 15287.8 | 10204.8 | 5855.3 | 2232.8 |
| 82.5° | 617.4 | 602.3 | 836.8 | 2497.4 | 7158.8 | 9778.8 | 7980.5 | 4551.7 | 2114.5 | 604.5 |
| 85° | 230.2 | 228.0 | 406.6 | 862.6 | 2525.4 | 4033.3 | 2919.0 | 1163.7 | 527.0 | 294.7 |
| 87.5° | 64.5 | 62.4 | 88.2 | 299.0 | 615.2 | 933.6 | 499.1 | 191.4 | 148.4 | 116.2 |
| 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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 CATALOG NUMBER: GALN-SB8B-830-U-SL4

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| 4637.7 | 0° | 4637.7 | 4637.7 | 4637.7 | 4637.7 | 4637.7 | 4637.7 | 4637.7 | 4637.7 | 4637.7 | 4637.7 |
| 4646.4 | 2.5° | 4652.8 | 4663.6 | 4682.9 | 4698.0 | 4717.3 | 4738.8 | 4769.0 | 4788.3 | 4807.7 | 4820.6 |
| 4657.1 | 5° | 4672.2 | 4695.8 | 4745.3 | 4794.8 | 4852.9 | 4906.6 | 4969.0 | 5014.2 | 5050.8 | 5061.5 |
| 4695.8 | 7.5° | 4715.2 | 4753.9 | 4837.8 | 4921.7 | 5014.2 | 5102.4 | 5192.7 | 5270.2 | 5332.5 | 5356.2 |
| 4764.7 | 10° | 4790.5 | 4842.1 | 4960.4 | 5078.7 | 5201.3 | 5336.9 | 5453.0 | 5564.9 | 5653.1 | 5689.6 |
| 4846.4 | 12.5° | 4885.1 | 4949.7 | 5104.5 | 5268.0 | 5438.0 | 5625.1 | 5775.7 | 5913.3 | 6023.0 | 6072.5 |
| 4960.4 | 15° | 5007.7 | 5091.6 | 5289.5 | 5508.9 | 5758.5 | 6018.7 | 6210.2 | 6362.9 | 6485.5 | 6545.8 |
| 5078.7 | 17.5° | 5141.1 | 5253.0 | 5502.5 | 5833.8 | 6190.8 | 6532.9 | 6756.6 | 6868.4 | 6995.3 | 7053.4 |
| 5188.4 | 20° | 5270.2 | 5407.8 | 5764.9 | 6246.8 | 6722.2 | 7085.7 | 7266.4 | 7296.5 | 7305.1 | 7311.6 |
| 5291.7 | 22.5° | 5403.5 | 5588.5 | 6094.0 | 6767.3 | 7277.1 | 7528.8 | 7554.6 | 7425.6 | 7244.9 | 7161.0 |
| 5392.8 | 25° | 5549.8 | 5795.0 | 6524.3 | 7341.7 | 7754.7 | 7784.8 | 7586.9 | 7272.8 | 6930.8 | 6773.8 |
| 5474.5 | 27.5° | 5691.8 | 6033.8 | 7040.5 | 7890.2 | 8098.8 | 7834.3 | 7408.3 | 6963.1 | 6550.1 | 6384.4 |
| 5532.6 | 30° | 5833.8 | 6307.0 | 7610.6 | 8369.9 | 8255.9 | 7711.7 | 7126.6 | 6629.7 | 6214.5 | 6040.3 |
| 5584.2 | 32.5° | 5977.9 | 6625.4 | 8266.6 | 8716.2 | 8227.9 | 7451.4 | 6775.9 | 6255.4 | 5889.7 | 5706.8 |
| 5629.4 | 35° | 6141.4 | 7016.9 | 8888.3 | 8905.5 | 8040.8 | 7068.5 | 6313.4 | 5807.9 | 5489.6 | 5343.3 |
| 5683.2 | 37.5° | 6354.3 | 7513.8 | 9436.8 | 8952.8 | 7713.8 | 6507.0 | 5739.1 | 5278.8 | 5016.3 | 4949.7 |
| 5762.8 | 40° | 6618.9 | 8111.8 | 9856.3 | 8877.5 | 7229.8 | 5825.1 | 5111.0 | 4743.2 | 4594.7 | 4609.8 |
| 5870.3 | 42.5° | 6963.1 | 8780.7 | 10151.0 | 8683.9 | 6556.5 | 5121.7 | 4560.3 | 4396.8 | 4467.8 | 4528.0 |
| 6031.7 | 45° | 7410.5 | 9475.5 | 10333.8 | 8354.8 | 5795.0 | 4525.9 | 4235.5 | 4274.2 | 4328.0 | 4334.4 |
| 6291.9 | 47.5° | 7982.7 | 10179.0 | 10454.3 | 7857.9 | 5018.5 | 4106.4 | 4029.0 | 4037.6 | 4026.8 | 3981.7 |
| 6681.3 | 50° | 8696.9 | 10863.0 | 10561.8 | 7199.7 | 4358.1 | 3844.0 | 3740.7 | 3710.6 | 3562.2 | 3415.9 |
| 7199.7 | 52.5° | 9510.0 | 11491.1 | 10607.0 | 6382.3 | 3844.0 | 3624.6 | 3456.8 | 3267.5 | 2990.0 | 2944.8 |
| 7851.5 | 55° | 10413.4 | 12071.9 | 10490.9 | 5377.7 | 3411.6 | 3342.8 | 3089.0 | 2860.9 | 2830.8 | 2792.1 |
| 8709.8 | 57.5° | 11493.3 | 12697.9 | 10254.2 | 4257.0 | 2968.5 | 3013.7 | 2766.3 | 2792.1 | 2738.3 | 2678.1 |
| 9813.3 | 60° | 12674.2 | 13345.4 | 9839.1 | 3235.2 | 2510.3 | 2602.8 | 2682.4 | 2680.3 | 2665.2 | 2615.7 |
| 10977.0 | 62.5° | 13736.9 | 13771.3 | 9021.7 | 2478.1 | 2108.1 | 2284.5 | 2501.7 | 2499.6 | 2486.7 | 2458.7 |
| 12192.4 | 65° | 14369.3 | 13706.7 | 7657.9 | 1951.0 | 1776.8 | 2022.0 | 2256.5 | 2273.7 | 2275.9 | 2273.7 |
| 13106.6 | 67.5° | 14257.4 | 12951.7 | 5786.4 | 1553.1 | 1503.6 | 1755.3 | 2013.4 | 2037.1 | 2054.3 | 2058.6 |
| 13222.7 | 70° | 12992.6 | 11293.2 | 3773.0 | 1239.0 | 1260.5 | 1520.8 | 1783.3 | 1806.9 | 1822.0 | 1839.2 |
| 11473.9 | 72.5° | 10127.3 | 8303.2 | 2159.7 | 1002.4 | 1047.6 | 1318.6 | 1555.2 | 1583.2 | 1591.8 | 1624.1 |
| 7984.8 | 75° | 6171.5 | 4883.0 | 1165.9 | 789.4 | 860.4 | 1127.2 | 1329.4 | 1361.6 | 1376.7 | 1415.4 |
| 3921.4 | 77.5° | 2934.1 | 2114.5 | 664.7 | 615.2 | 692.7 | 920.7 | 1122.9 | 1159.4 | 1118.6 | 1140.1 |
| 1082.0 | 80° | 991.7 | 785.1 | 419.5 | 468.9 | 529.2 | 718.5 | 899.2 | 935.7 | 849.7 | 845.4 |
| 359.2 | 82.5° | 346.3 | 318.4 | 266.7 | 311.9 | 342.0 | 514.1 | 679.7 | 727.1 | 632.4 | 630.3 |
| 161.3 | 85° | 135.5 | 129.1 | 148.4 | 169.9 | 204.4 | 316.2 | 447.4 | 471.1 | 389.3 | 314.1 |
| 47.3 | 87.5° | 28.0 | 30.1 | 36.6 | 38.7 | 62.4 | 109.7 | 161.3 | 197.9 | 157.0 | 133.4 |
| 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> |
|-------------|
| 4637.7 |
| 4812.0 |
| 5065.8 |
| 5358.4 |
| 5691.8 |
| 6072.5 |
| 6541.5 |
| 7051.3 |
| 7328.8 |
| 7184.6 |
| 6797.4 |
| 6403.8 |
| 6059.6 |
| 5730.5 |
| 5375.6 |
| 4997.0 |
| 4661.4 |
| 4584.0 |
| 4377.5 |
| 4016.1 |
| 3435.3 |
| 2959.9 |
| 2798.6 |
| 2667.3 |
| 2598.5 |
| 2447.9 |
| 2273.7 |
| 2062.9 |
| 1847.8 |
| 1637.0 |
| 1419.7 |
| 1122.9 |
| 836.8 |
| 600.2 |
| 309.8 |
| 122.6 |
| 0.0 |

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