

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: P943005

Luminaire Tested: **GALN-SB7B-740-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943005
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7B-740-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41980 lumens
Efficiency: N/A
Efficacy: 163.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

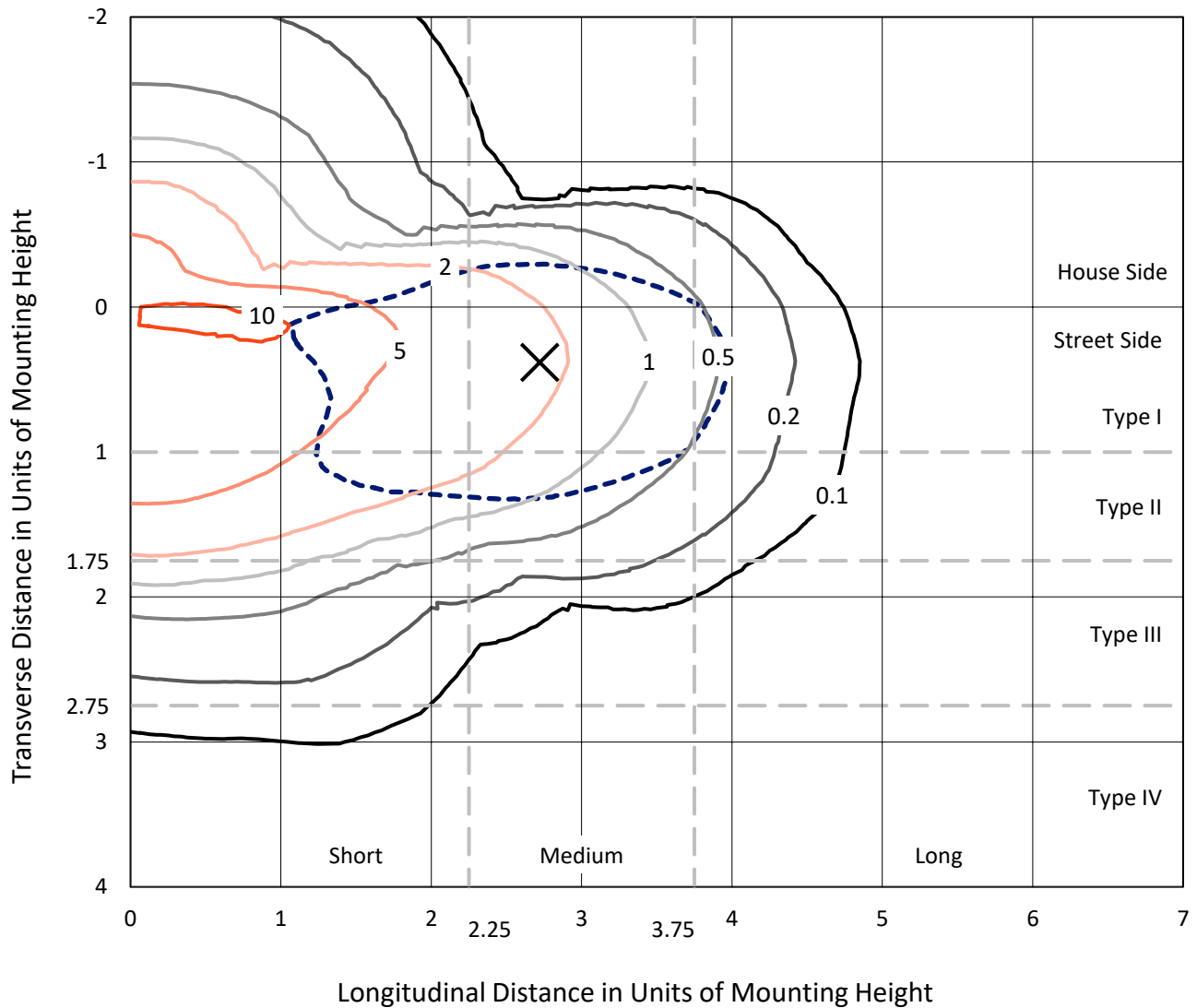
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

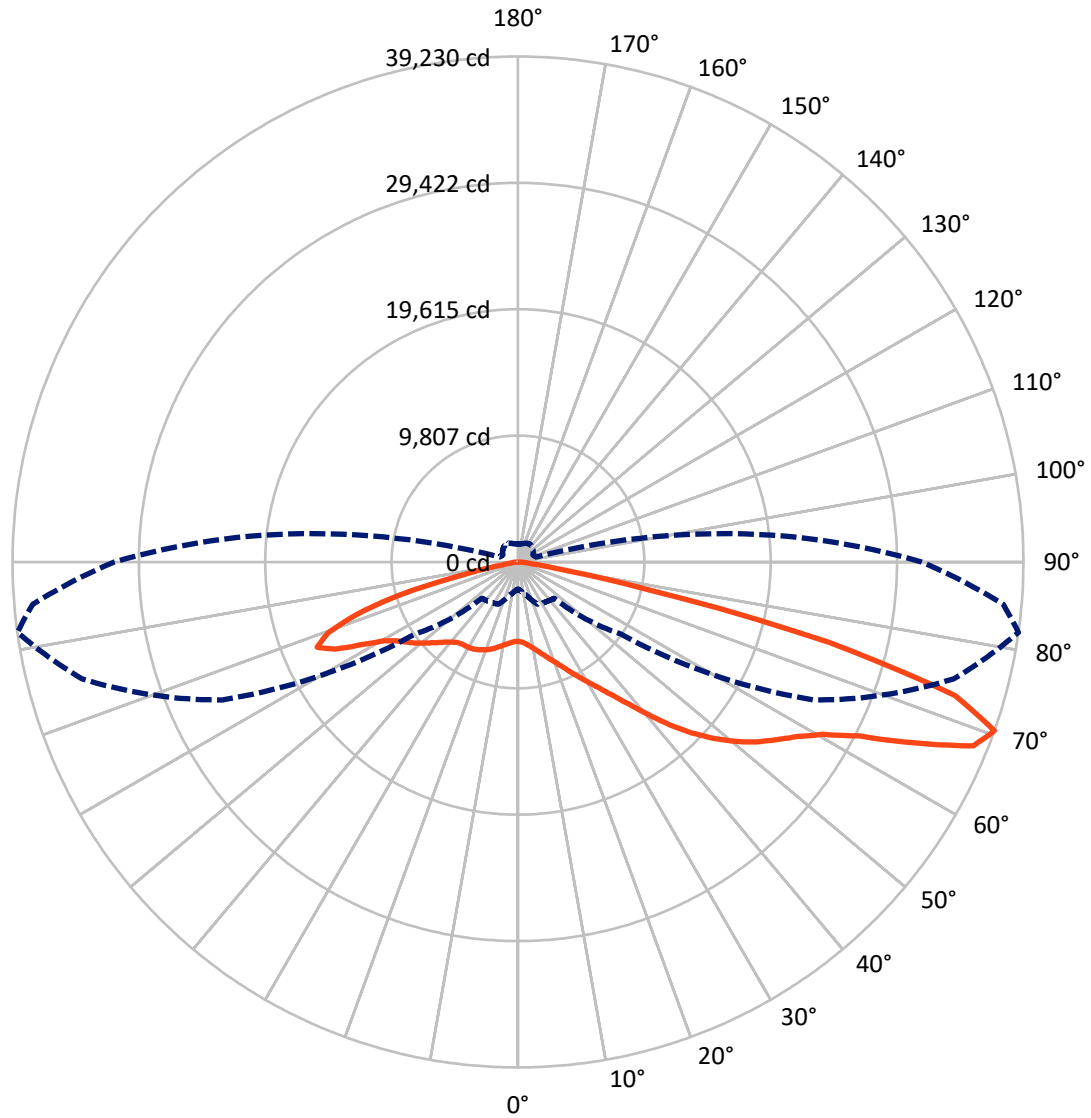
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 10349.1 | 0.0 | 10349.1 |
| | % Fixture | 24.7 | 0.0 | 24.7 |
| Street Side | Lumens | 31630.9 | 0.0 | 31630.9 |
| | % Fixture | 75.3 | 0.0 | 75.3 |
| Total | Lumens | 41980.0 | 0.0 | 41980.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 581.1 | 1.4 |
| 10°-20° | 1669.6 | 4.0 |
| 20°-30° | 2793.1 | 6.7 |
| 30°-40° | 4363.5 | 10.4 |
| 40°-50° | 6949.4 | 16.6 |
| 50°-60° | 9670.9 | 23.0 |
| 60°-70° | 10116.2 | 24.1 |
| 70°-80° | 5287.3 | 12.6 |
| 80°-90° | 549.0 | 1.3 |
| 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° | 41980.0 | 100.0 |
| 0°-180° | 41980.0 | 100.0 |

Coefficient of Utilization



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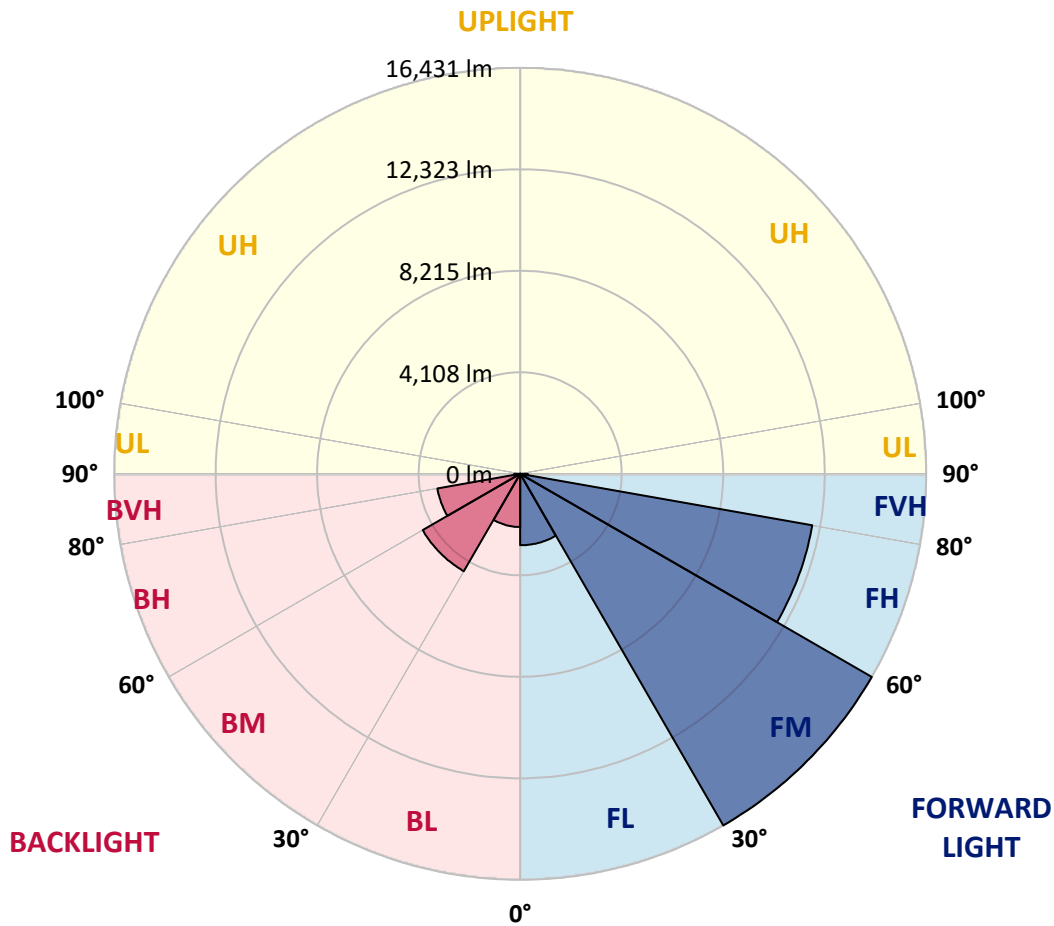
CATALOG NUMBER: GALN-SB7B-740-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2890.8 | 6.9 | | | |
| FM (30°-60°) | 16430.5 | 39.1 | | | |
| FH (60°-80°) | 12002.2 | 28.6 | | | G5 |
| FVH (80°-90°) | 307.3 | 0.7 | | | G3/500 |
| BL (0°-30°) | 2153.0 | 5.1 | B3/2500 | | |
| BM (30°-60°) | 4553.2 | 10.8 | B3/5000 | | |
| BH (60°-80°) | 3401.2 | 8.1 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 241.7 | 0.6 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 82° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6154.8 | 6154.8 | 6154.8 | 6154.8 | 6154.8 | 6154.8 | 6154.8 | 6154.8 | 6154.8 | 6154.8 |
| 2.5° | 6301.8 | 6337.5 | 6326.3 | 6315.2 | 6315.2 | 6299.6 | 6297.4 | 6275.1 | 6257.3 | 6228.3 |
| 5° | 6382.0 | 6419.9 | 6415.4 | 6424.3 | 6453.3 | 6460.0 | 6466.7 | 6453.3 | 6417.6 | 6382.0 |
| 7.5° | 6310.7 | 6353.0 | 6366.4 | 6419.9 | 6509.0 | 6589.2 | 6649.3 | 6673.8 | 6640.4 | 6589.2 |
| 10° | 6070.1 | 6116.9 | 6163.7 | 6290.7 | 6448.8 | 6638.2 | 6798.6 | 6894.3 | 6887.7 | 6838.7 |
| 12.5° | 5582.3 | 5631.3 | 5731.6 | 5978.8 | 6268.4 | 6602.5 | 6901.0 | 7101.5 | 7170.6 | 7134.9 |
| 15° | 5192.5 | 5234.8 | 5310.5 | 5564.5 | 5940.9 | 6448.8 | 6938.9 | 7328.7 | 7504.7 | 7484.7 |
| 17.5° | 5181.3 | 5199.2 | 5245.9 | 5366.2 | 5655.8 | 6208.3 | 6898.8 | 7551.5 | 7887.8 | 7885.6 |
| 20° | 5377.4 | 5384.1 | 5410.8 | 5435.3 | 5600.1 | 6025.6 | 6796.3 | 7736.4 | 8317.8 | 8317.8 |
| 22.5° | 5649.1 | 5644.7 | 5671.4 | 5649.1 | 5729.3 | 6010.0 | 6731.7 | 7899.0 | 8796.7 | 8832.3 |
| 25° | 6056.8 | 6034.5 | 6027.8 | 5976.6 | 5992.2 | 6154.8 | 6803.0 | 8083.9 | 9364.7 | 9438.2 |
| 27.5° | 6600.3 | 6564.7 | 6540.2 | 6422.1 | 6382.0 | 6453.3 | 7021.3 | 8306.6 | 9997.4 | 10124.3 |
| 30° | 7308.7 | 7244.1 | 7208.4 | 7003.5 | 6858.7 | 6869.8 | 7351.0 | 8602.9 | 10659.0 | 10863.9 |
| 32.5° | 8275.4 | 8175.2 | 8079.4 | 7743.1 | 7478.0 | 7391.1 | 7776.5 | 9012.8 | 11376.2 | 11703.7 |
| 35° | 9358.0 | 9277.9 | 9175.4 | 8656.4 | 8248.7 | 8048.2 | 8351.2 | 9585.3 | 12216.0 | 12735.1 |
| 37.5° | 10400.6 | 10331.5 | 10380.5 | 9681.0 | 9155.3 | 8863.5 | 9104.1 | 10353.8 | 13251.9 | 14018.1 |
| 40° | 11478.7 | 11425.2 | 11431.9 | 10763.6 | 10151.1 | 9823.6 | 10017.4 | 11318.3 | 14439.1 | 15544.0 |
| 42.5° | 12650.4 | 12610.3 | 12476.7 | 11884.1 | 11195.8 | 10890.6 | 11068.8 | 12432.1 | 15713.3 | 17281.5 |
| 45° | 13962.4 | 13937.9 | 13813.2 | 13133.8 | 12345.2 | 12002.2 | 12242.8 | 13661.7 | 16994.2 | 18916.6 |
| 47.5° | 15096.3 | 15116.3 | 15100.7 | 14528.3 | 13710.7 | 13207.3 | 13494.7 | 14944.8 | 18185.9 | 20453.6 |
| 50° | 15642.0 | 15746.7 | 15900.4 | 15722.2 | 15214.3 | 14702.0 | 14757.7 | 16183.3 | 19322.0 | 21894.8 |
| 52.5° | 15356.9 | 15555.2 | 15973.9 | 16259.1 | 16455.1 | 16348.2 | 16198.9 | 17413.0 | 20391.2 | 23195.8 |
| 55° | 14294.4 | 14572.8 | 15267.8 | 15956.1 | 16956.3 | 17733.7 | 17929.8 | 18776.2 | 21433.7 | 24340.7 |
| 57.5° | 12358.6 | 12810.8 | 13434.5 | 14826.7 | 16510.8 | 18404.2 | 19947.9 | 20667.5 | 22538.6 | 25563.7 |
| 60° | 9039.5 | 9645.4 | 10420.6 | 12492.2 | 14951.5 | 18045.6 | 21665.4 | 23572.2 | 24109.1 | 27147.5 |
| 62.5° | 5785.0 | 6159.2 | 6872.1 | 8823.4 | 11650.2 | 16207.8 | 22191.1 | 27203.2 | 26771.0 | 29744.8 |
| 65° | 3960.6 | 4201.2 | 4853.9 | 5949.9 | 7531.4 | 12064.6 | 20783.3 | 29925.3 | 30998.9 | 33861.4 |
| 67.5° | 2878.0 | 3060.7 | 3617.6 | 4577.7 | 4907.4 | 7139.4 | 16127.7 | 29800.5 | 35108.8 | 38102.7 |
| 70° | 2098.4 | 2227.6 | 2695.4 | 3617.6 | 3775.7 | 3971.8 | 9770.1 | 25332.0 | 35019.7 | 39229.8 |
| 72.5° | 1554.8 | 1644.0 | 1958.0 | 2806.7 | 3056.2 | 2682.0 | 4836.1 | 18410.9 | 30092.3 | 35483.1 |
| 75° | 1124.9 | 1191.8 | 1423.4 | 2147.4 | 2445.9 | 2042.7 | 2412.5 | 10759.2 | 20990.5 | 24960.0 |
| 77.5° | 859.8 | 911.1 | 1062.6 | 1572.7 | 1958.0 | 1532.6 | 1496.9 | 4949.7 | 9952.8 | 10001.8 |
| 80° | 690.5 | 724.0 | 806.4 | 1107.1 | 1501.4 | 1147.2 | 975.7 | 1998.1 | 3145.3 | 2662.0 |
| 82.5° | 507.9 | 563.6 | 681.6 | 777.4 | 1073.7 | 790.8 | 594.8 | 1009.1 | 1196.2 | 1029.1 |
| 85° | 289.6 | 327.5 | 412.1 | 556.9 | 686.1 | 483.4 | 340.8 | 447.7 | 556.9 | 456.7 |
| 87.5° | 102.5 | 133.7 | 144.8 | 218.3 | 298.5 | 200.5 | 131.4 | 129.2 | 182.7 | 135.9 |
| 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-SB7B-740-U-T2

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 6154.8 | 0° | 6154.8 | 6154.8 | 6154.8 | 6154.8 | 6154.8 | 6154.8 | 6154.8 | 6154.8 | 6154.8 | 6154.8 |
| 6221.6 | 2.5° | 6199.3 | 6188.2 | 6143.7 | 6083.5 | 6021.1 | 5961.0 | 5940.9 | 5898.6 | 5869.7 | 5854.1 |
| 6366.4 | 5° | 6324.1 | 6288.4 | 6183.8 | 6050.1 | 5909.8 | 5758.3 | 5651.4 | 5553.3 | 5482.1 | 5415.2 |
| 6564.7 | 7.5° | 6502.3 | 6439.9 | 6259.5 | 6025.6 | 5776.1 | 5524.4 | 5337.3 | 5194.7 | 5098.9 | 5036.5 |
| 6796.3 | 10° | 6709.5 | 6613.7 | 6337.5 | 5987.7 | 5602.4 | 5241.5 | 5021.0 | 4898.4 | 4838.3 | 4804.9 |
| 7061.4 | 12.5° | 6947.8 | 6811.9 | 6417.6 | 5900.8 | 5337.3 | 4925.2 | 4773.7 | 4738.1 | 4740.3 | 4742.5 |
| 7395.6 | 15° | 7241.9 | 7052.5 | 6482.2 | 5711.5 | 4992.0 | 4682.4 | 4655.6 | 4713.6 | 4773.7 | 4802.7 |
| 7774.2 | 17.5° | 7573.8 | 7306.4 | 6493.4 | 5399.6 | 4653.4 | 4526.4 | 4611.1 | 4735.8 | 4827.2 | 4867.3 |
| 8197.5 | 20° | 7930.2 | 7564.8 | 6413.2 | 4958.6 | 4375.0 | 4399.5 | 4550.9 | 4711.3 | 4811.6 | 4862.8 |
| 8680.9 | 22.5° | 8337.8 | 7841.1 | 6221.6 | 4495.2 | 4147.7 | 4261.4 | 4439.6 | 4595.5 | 4700.2 | 4751.4 |
| 9248.9 | 25° | 8803.4 | 8150.7 | 5920.9 | 4105.4 | 3951.7 | 4105.4 | 4283.6 | 4412.8 | 4497.5 | 4544.3 |
| 9883.8 | 27.5° | 9320.2 | 8473.7 | 5519.9 | 3795.8 | 3780.2 | 3945.0 | 4092.1 | 4192.3 | 4236.8 | 4272.5 |
| 10558.7 | 30° | 9839.2 | 8767.7 | 5034.3 | 3561.9 | 3630.9 | 3786.9 | 3891.6 | 3936.1 | 3949.5 | 3956.2 |
| 11311.6 | 32.5° | 10400.6 | 9021.7 | 4524.2 | 3368.1 | 3488.4 | 3633.2 | 3695.5 | 3715.6 | 3653.2 | 3610.9 |
| 12224.9 | 35° | 11080.0 | 9293.4 | 4025.2 | 3214.4 | 3348.0 | 3472.8 | 3492.8 | 3475.0 | 3401.5 | 3314.6 |
| 13369.9 | 37.5° | 11919.8 | 9632.0 | 3626.5 | 3105.2 | 3216.6 | 3299.0 | 3274.5 | 3270.1 | 3276.8 | 3174.3 |
| 14746.6 | 40° | 12948.9 | 10073.1 | 3334.7 | 3020.6 | 3109.7 | 3127.5 | 3058.5 | 3096.3 | 3129.7 | 2973.8 |
| 16256.9 | 42.5° | 14091.6 | 10605.5 | 3149.8 | 2962.7 | 3020.6 | 2978.3 | 2871.3 | 2913.7 | 2909.2 | 2704.3 |
| 17773.8 | 45° | 15256.7 | 11184.7 | 3085.2 | 2920.4 | 2938.2 | 2853.5 | 2735.5 | 2746.6 | 2653.0 | 2468.2 |
| 19228.4 | 47.5° | 16415.0 | 11806.2 | 3125.3 | 2884.7 | 2835.7 | 2739.9 | 2648.6 | 2599.6 | 2461.5 | 2323.4 |
| 20622.9 | 50° | 17551.1 | 12458.8 | 3272.3 | 2813.4 | 2695.4 | 2639.7 | 2572.9 | 2486.0 | 2339.0 | 2220.9 |
| 21941.6 | 52.5° | 18604.7 | 13116.0 | 3437.2 | 2695.4 | 2519.4 | 2552.8 | 2510.5 | 2410.2 | 2265.4 | 2145.2 |
| 23189.1 | 55° | 19602.7 | 13773.1 | 3501.7 | 2532.8 | 2354.5 | 2477.1 | 2452.6 | 2267.7 | 2093.9 | 1995.9 |
| 24494.4 | 57.5° | 20689.7 | 14563.9 | 3430.5 | 2325.6 | 2220.9 | 2390.2 | 2296.6 | 2091.7 | 1991.5 | 1917.9 |
| 26194.1 | 60° | 22195.6 | 15804.7 | 3276.8 | 2069.4 | 2093.9 | 2261.0 | 2100.6 | 2016.0 | 1906.8 | 1824.4 |
| 28742.4 | 62.5° | 24697.1 | 18119.1 | 3029.5 | 1815.5 | 1944.7 | 2069.4 | 2007.0 | 1922.4 | 1811.0 | 1730.8 |
| 33099.6 | 65° | 28394.9 | 21335.7 | 2563.9 | 1617.2 | 1777.6 | 1882.3 | 1906.8 | 1822.2 | 1706.3 | 1621.7 |
| 36917.6 | 67.5° | 31513.5 | 23353.9 | 1940.2 | 1452.4 | 1606.1 | 1730.8 | 1799.9 | 1717.5 | 1594.9 | 1512.5 |
| 37810.9 | 70° | 31342.0 | 21888.2 | 1481.3 | 1289.8 | 1454.6 | 1581.6 | 1670.7 | 1606.1 | 1474.7 | 1396.7 |
| 34344.8 | 72.5° | 27838.0 | 18310.7 | 1198.4 | 1124.9 | 1300.9 | 1425.6 | 1532.6 | 1483.6 | 1349.9 | 1274.2 |
| 25160.5 | 75° | 20451.4 | 12997.9 | 957.9 | 957.9 | 1109.3 | 1263.0 | 1381.1 | 1349.9 | 1227.4 | 1173.9 |
| 10563.2 | 77.5° | 8620.7 | 5453.1 | 750.7 | 795.2 | 922.2 | 1084.8 | 1231.8 | 1243.0 | 1136.1 | 1202.9 |
| 2793.4 | 80° | 2292.2 | 1503.6 | 572.5 | 625.9 | 724.0 | 895.5 | 1071.5 | 1067.0 | 951.2 | 888.8 |
| 1038.1 | 82.5° | 873.2 | 592.5 | 407.6 | 441.1 | 523.5 | 686.1 | 848.7 | 875.4 | 759.6 | 657.1 |
| 407.6 | 85° | 336.4 | 253.9 | 251.7 | 265.1 | 305.2 | 454.4 | 641.5 | 663.8 | 572.5 | 485.6 |
| 113.6 | 87.5° | 86.9 | 75.7 | 93.6 | 89.1 | 140.3 | 242.8 | 367.6 | 380.9 | 349.7 | 202.7 |
| 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> |
|-------------|
| 6154.8 |
| 5871.9 |
| 5442.0 |
| 5049.9 |
| 4813.8 |
| 4747.0 |
| 4800.4 |
| 4876.2 |
| 4876.2 |
| 4764.8 |
| 4557.6 |
| 4285.9 |
| 3971.8 |
| 3624.3 |
| 3319.1 |
| 3181.0 |
| 2978.3 |
| 2702.0 |
| 2474.8 |
| 2323.4 |
| 2212.0 |
| 2147.4 |
| 1987.0 |
| 1911.3 |
| 1819.9 |
| 1730.8 |
| 1626.1 |
| 1514.8 |
| 1403.4 |
| 1274.2 |
| 1158.3 |
| 1091.5 |
| 826.4 |
| 657.1 |
| 501.2 |
| 289.6 |
| 0.0 |

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