

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: P957520

Luminaire Tested: **GALN-SB9D-835-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957520
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9D-835-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 85450 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B5 - U0 - G5

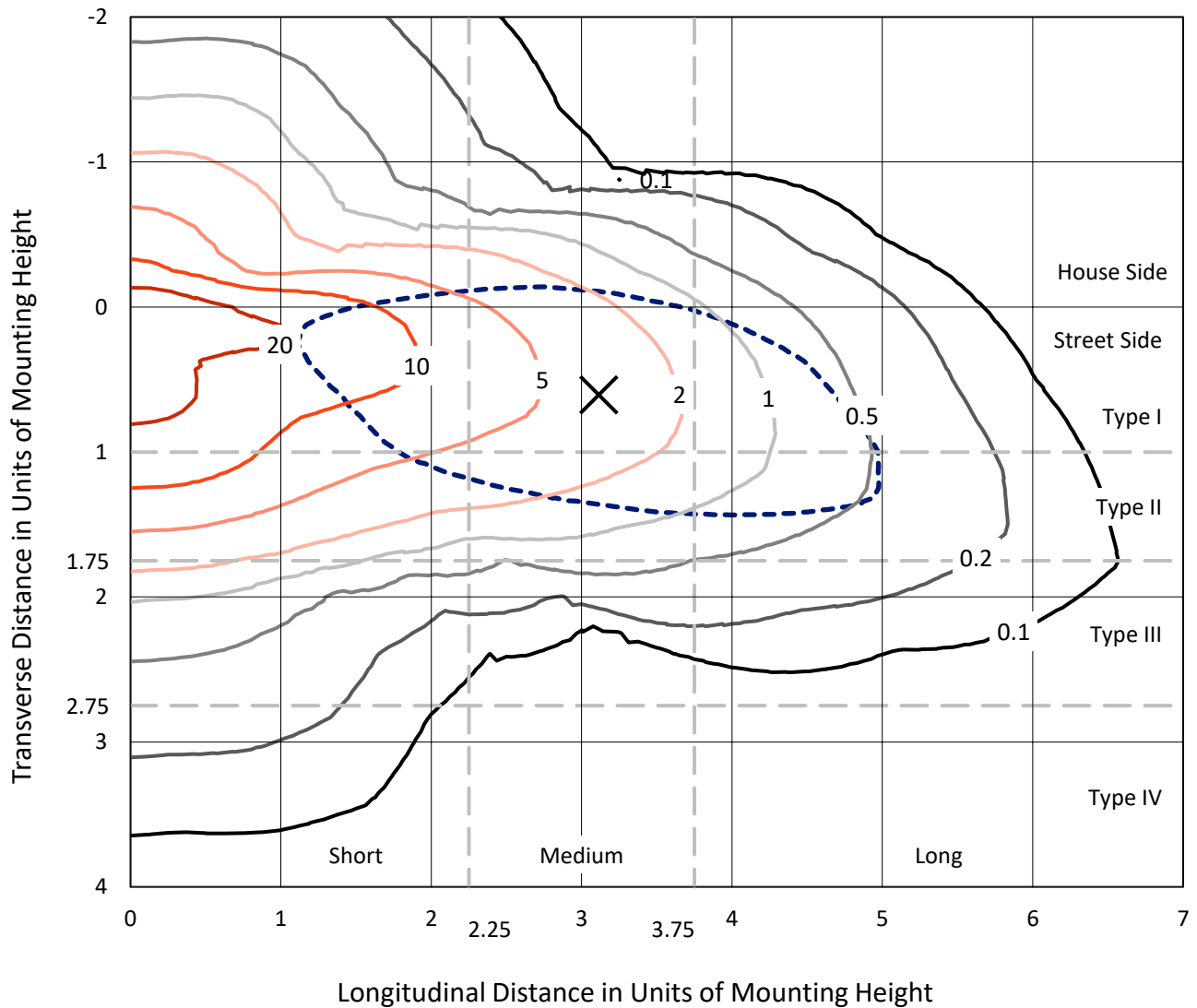
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

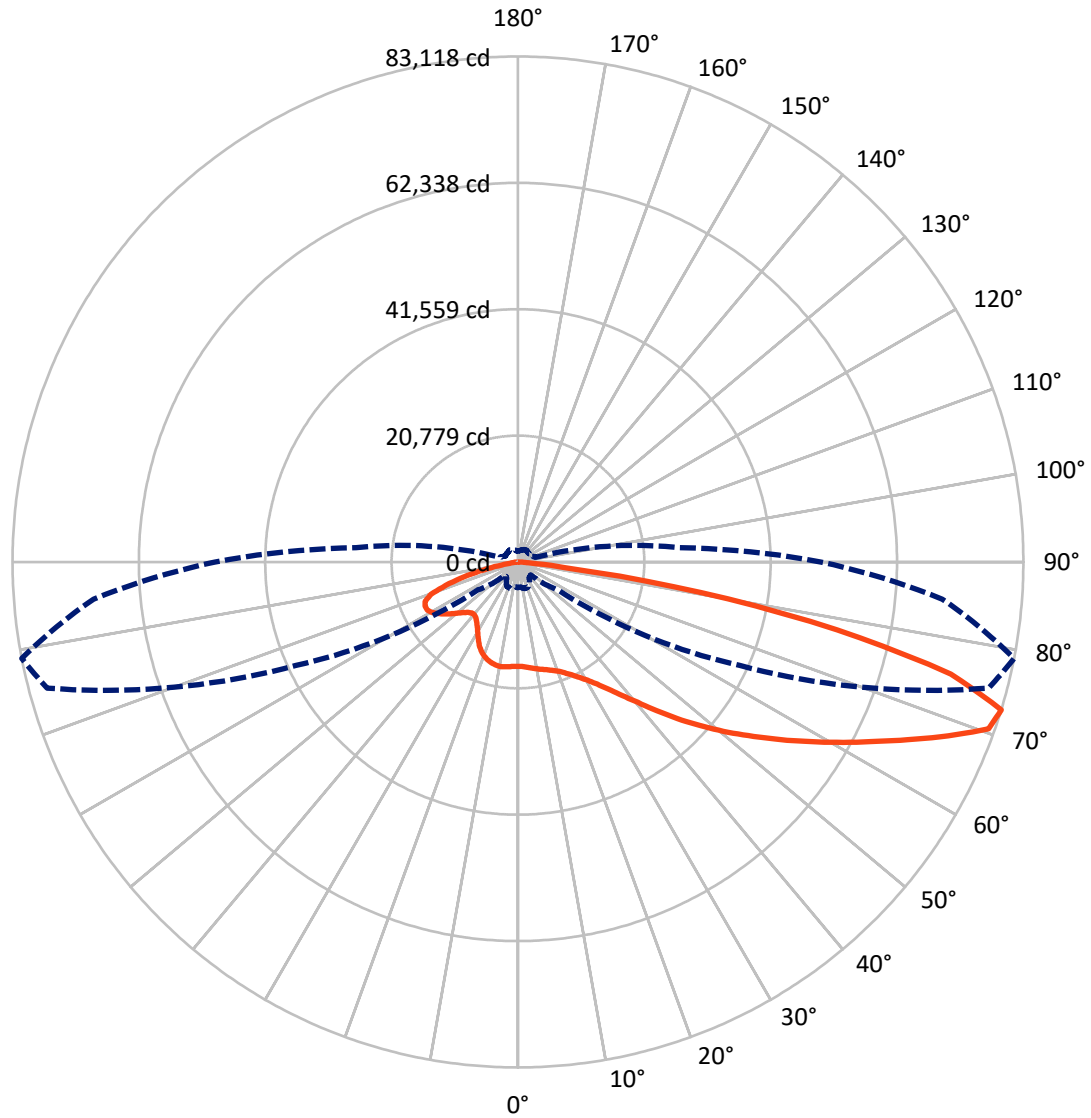
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 18803.7 | 0.0 | 18803.7 |
| | % Fixture | 22.0 | 0.0 | 22.0 |
| Street Side | Lumens | 66646.3 | 0.0 | 66646.3 |
| | % Fixture | 78.0 | 0.0 | 78.0 |
| Total | Lumens | 85450.0 | 0.0 | 85450.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1557.0 | 1.8 |
| 10°-20° | 4070.8 | 4.8 |
| 20°-30° | 6568.7 | 7.7 |
| 30°-40° | 9858.6 | 11.5 |
| 40°-50° | 13985.0 | 16.4 |
| 50°-60° | 17661.2 | 20.7 |
| 60°-70° | 17937.4 | 21.0 |
| 70°-80° | 12225.1 | 14.3 |
| 80°-90° | 1586.1 | 1.9 |
| 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° | 85450.0 | 100.0 |
| 0°-180° | 85450.0 | 100.0 |

Coefficient of Utilization



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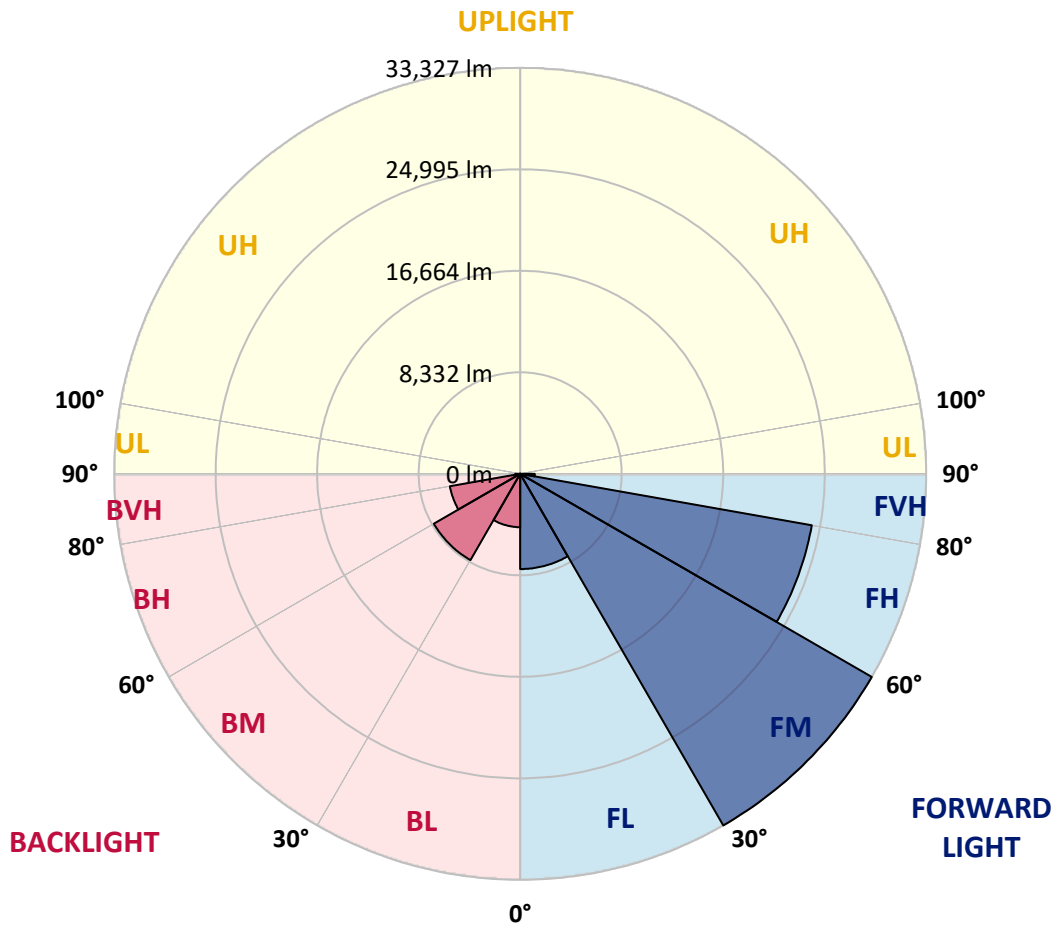
CATALOG NUMBER: GALN-SB9D-835-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 7816.6 | 9.1 | | | |
| FM (30°-60°) | 33327.2 | 39.0 | | | |
| FH (60°-80°) | 24307.6 | 28.4 | | | G5 |
| FVH (80°-90°) | 1194.8 | 1.4 | | | G5 |
| BL (0°-30°) | 4379.9 | 5.1 | B4/5000 | | |
| BM (30°-60°) | 8177.6 | 9.6 | B4/8500 | | |
| BH (60°-80°) | 5854.9 | 6.9 | B5 | | G5 |
| BVH (80°-90°) | 391.3 | 0.5 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 79° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 17153.3 | 17153.3 | 17153.3 | 17153.3 | 17153.3 | 17153.3 | 17153.3 | 17153.3 | 17153.3 | 17153.3 |
| 2.5° | 17162.3 | 17081.0 | 17130.7 | 17112.6 | 17135.2 | 17162.3 | 17171.4 | 17184.9 | 17230.1 | 17225.6 |
| 5° | 17126.2 | 17044.8 | 17112.6 | 17090.0 | 17148.8 | 17212.0 | 17266.3 | 17316.0 | 17388.3 | 17420.0 |
| 7.5° | 17049.3 | 16995.1 | 17062.9 | 17130.7 | 17239.2 | 17334.1 | 17410.9 | 17523.9 | 17627.9 | 17646.0 |
| 10° | 16601.8 | 16561.2 | 16719.4 | 16895.6 | 17194.0 | 17451.6 | 17618.8 | 17749.9 | 17862.9 | 17881.0 |
| 12.5° | 16136.3 | 16086.6 | 16262.8 | 16502.4 | 16986.0 | 17451.6 | 17804.2 | 17975.9 | 18075.3 | 18134.1 |
| 15° | 16059.4 | 16018.8 | 16118.2 | 16326.1 | 16728.4 | 17329.6 | 17930.7 | 18247.1 | 18333.0 | 18400.8 |
| 17.5° | 16430.1 | 16353.2 | 16393.9 | 16466.2 | 16701.3 | 17216.6 | 18030.1 | 18554.5 | 18685.5 | 18757.9 |
| 20° | 17288.9 | 17180.4 | 17117.1 | 16972.5 | 16931.8 | 17234.6 | 18021.1 | 18925.1 | 19096.9 | 19187.3 |
| 22.5° | 18432.4 | 18360.1 | 18224.5 | 17858.4 | 17460.6 | 17456.1 | 18192.9 | 19399.7 | 19720.6 | 19806.5 |
| 25° | 19815.5 | 19707.1 | 19535.3 | 19038.1 | 18274.2 | 17894.5 | 18482.1 | 20005.4 | 20543.3 | 20565.9 |
| 27.5° | 21406.6 | 21243.8 | 21008.8 | 20353.4 | 19322.9 | 18581.6 | 18925.1 | 20701.4 | 21487.9 | 21478.9 |
| 30° | 23083.5 | 22920.8 | 22672.2 | 21876.6 | 20579.4 | 19508.2 | 19539.8 | 21451.8 | 22608.9 | 22559.2 |
| 32.5° | 24308.4 | 24186.3 | 24136.6 | 23521.9 | 22025.8 | 20602.0 | 20244.9 | 22283.4 | 23992.0 | 23946.8 |
| 35° | 25248.5 | 25090.3 | 25149.1 | 24837.2 | 23603.3 | 21826.9 | 21108.2 | 23273.3 | 25673.4 | 25668.9 |
| 37.5° | 26179.6 | 26039.5 | 26089.2 | 25881.3 | 25063.2 | 23381.8 | 22161.4 | 24484.7 | 27757.1 | 27856.6 |
| 40° | 27029.4 | 26880.2 | 27079.1 | 26884.8 | 26197.7 | 25036.1 | 23359.2 | 25854.2 | 30170.8 | 30360.6 |
| 42.5° | 27540.2 | 27422.6 | 27752.6 | 27757.1 | 27183.1 | 26432.8 | 24674.5 | 27363.9 | 32964.1 | 33389.0 |
| 45° | 27716.4 | 27675.8 | 28173.0 | 28276.9 | 28055.4 | 27241.8 | 25858.7 | 29009.1 | 35974.4 | 36733.8 |
| 47.5° | 27526.6 | 27449.8 | 28136.8 | 28521.0 | 28697.3 | 27621.5 | 26839.6 | 30790.0 | 39048.0 | 40159.9 |
| 50° | 26568.4 | 26419.2 | 27440.7 | 28249.8 | 28878.1 | 27870.1 | 27829.4 | 32846.6 | 42541.9 | 43757.8 |
| 52.5° | 24846.3 | 24733.3 | 25894.9 | 27300.6 | 28480.3 | 27992.2 | 28941.3 | 35093.0 | 45859.6 | 47432.5 |
| 55° | 22645.0 | 22495.9 | 23775.0 | 25610.1 | 27490.4 | 27951.5 | 30053.3 | 37606.1 | 49773.9 | 51369.4 |
| 57.5° | 19155.6 | 18857.3 | 20475.5 | 22645.0 | 25876.8 | 27901.8 | 31210.4 | 40105.7 | 53751.4 | 55663.4 |
| 60° | 14066.1 | 13623.2 | 15607.4 | 18179.3 | 22721.9 | 27418.1 | 32643.2 | 42908.0 | 58524.5 | 60246.6 |
| 62.5° | 8190.2 | 7932.5 | 9229.8 | 11629.9 | 17126.2 | 24570.5 | 33447.8 | 46166.9 | 63216.3 | 65024.2 |
| 65° | 6359.6 | 6287.3 | 6400.3 | 6585.6 | 9532.6 | 18396.3 | 30966.3 | 49344.5 | 69182.6 | 70448.2 |
| 67.5° | 5817.2 | 5763.0 | 5812.7 | 5464.6 | 4836.4 | 10246.8 | 24498.2 | 50149.0 | 75573.8 | 76342.2 |
| 70° | 5170.8 | 5107.6 | 5270.3 | 4972.0 | 3805.8 | 4660.1 | 15828.9 | 47229.1 | 80658.8 | 82100.7 |
| 72.5° | 4212.6 | 4140.3 | 4520.0 | 4384.4 | 3204.7 | 2992.2 | 7950.6 | 40291.0 | 80125.5 | 83117.7 |
| 75° | 3236.3 | 3195.6 | 3647.6 | 3760.6 | 2612.5 | 2354.9 | 3814.9 | 29949.3 | 70511.5 | 73526.3 |
| 77.5° | 2513.1 | 2481.5 | 2712.0 | 3123.3 | 2106.3 | 1826.1 | 2345.9 | 18997.4 | 53136.7 | 53665.6 |
| 80° | 1884.8 | 1794.4 | 2006.9 | 2418.2 | 1640.7 | 1333.4 | 1591.0 | 11078.4 | 33587.9 | 30446.5 |
| 82.5° | 1179.7 | 1134.5 | 1310.8 | 1613.6 | 1157.1 | 917.6 | 1035.1 | 6120.0 | 13460.5 | 7928.0 |
| 85° | 673.5 | 655.4 | 714.2 | 922.1 | 628.3 | 528.8 | 592.1 | 2702.9 | 2458.9 | 1690.5 |
| 87.5° | 271.2 | 262.2 | 325.4 | 411.3 | 230.5 | 194.4 | 207.9 | 650.9 | 542.4 | 501.7 |
| 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° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 17153.3 | 0° | 17153.3 | 17153.3 | 17153.3 | 17153.3 | 17153.3 | 17153.3 | 17153.3 | 17153.3 | 17153.3 | 17153.3 |
| 17221.1 | 2.5° | 17203.0 | 17203.0 | 17139.7 | 17040.3 | 16927.3 | 16855.0 | 16737.4 | 16705.8 | 16583.8 | 16547.6 |
| 17374.8 | 5° | 17410.9 | 17374.8 | 17180.4 | 16900.2 | 16516.0 | 16163.4 | 15774.7 | 15530.6 | 15187.1 | 15065.1 |
| 17677.6 | 7.5° | 17673.1 | 17573.6 | 17239.2 | 16624.4 | 15819.9 | 15028.9 | 14206.3 | 13582.5 | 12985.9 | 12773.4 |
| 17926.2 | 10° | 17912.6 | 17772.5 | 17203.0 | 16127.2 | 14735.1 | 13365.5 | 12054.8 | 11137.2 | 10441.1 | 10156.4 |
| 18201.9 | 12.5° | 18152.2 | 17894.5 | 16963.4 | 15300.1 | 13193.8 | 11336.1 | 9939.4 | 9225.3 | 8795.9 | 8452.3 |
| 18427.9 | 15° | 18378.2 | 18016.6 | 16592.8 | 14192.7 | 11503.3 | 9618.5 | 8587.9 | 8018.4 | 7674.9 | 7448.9 |
| 18757.9 | 17.5° | 18640.3 | 18120.5 | 16036.8 | 12787.0 | 9894.2 | 8429.7 | 7589.0 | 7245.5 | 7177.7 | 7150.6 |
| 19209.9 | 20° | 19006.5 | 18215.5 | 15304.6 | 11214.0 | 8710.0 | 7480.5 | 7046.6 | 7015.0 | 7010.5 | 6996.9 |
| 19752.3 | 22.5° | 19399.7 | 18328.5 | 14337.3 | 9785.7 | 7702.0 | 6888.4 | 6811.6 | 6748.3 | 6707.6 | 6703.1 |
| 20407.7 | 25° | 19865.3 | 18364.6 | 13126.0 | 8615.1 | 6843.2 | 6608.2 | 6517.8 | 6422.9 | 6395.8 | 6395.8 |
| 21153.4 | 27.5° | 20317.3 | 18242.6 | 11715.8 | 7598.1 | 6359.6 | 6350.6 | 6233.0 | 6201.4 | 6196.9 | 6210.4 |
| 22003.2 | 30° | 20769.2 | 18012.1 | 10314.6 | 6657.9 | 6079.4 | 6079.4 | 6038.7 | 6061.3 | 6079.4 | 6124.6 |
| 23169.4 | 32.5° | 21379.4 | 17768.0 | 9143.9 | 5961.8 | 5835.3 | 5790.1 | 5830.8 | 5876.0 | 5894.0 | 5952.8 |
| 24701.6 | 35° | 22274.4 | 17596.2 | 8212.8 | 5582.2 | 5582.2 | 5523.4 | 5546.0 | 5537.0 | 5496.3 | 5469.2 |
| 26554.8 | 37.5° | 23458.6 | 17587.2 | 7444.4 | 5405.9 | 5369.7 | 5360.7 | 5365.2 | 5306.4 | 5148.2 | 4958.4 |
| 28796.7 | 40° | 24882.4 | 17831.3 | 6852.3 | 5283.8 | 5256.7 | 5311.0 | 5283.8 | 5125.6 | 4691.7 | 4361.8 |
| 31553.9 | 42.5° | 26794.4 | 18527.3 | 6472.6 | 5134.7 | 5216.0 | 5283.8 | 5175.4 | 4628.4 | 4334.6 | 4113.2 |
| 34695.3 | 45° | 29045.3 | 19657.3 | 6278.2 | 4976.5 | 5139.2 | 5220.6 | 4696.2 | 4456.7 | 4221.6 | 3955.0 |
| 38121.4 | 47.5° | 31594.6 | 21081.1 | 6233.0 | 4827.3 | 4967.4 | 5017.2 | 4492.8 | 4384.4 | 4117.7 | 3828.4 |
| 41565.6 | 50° | 34369.8 | 22767.1 | 6355.1 | 4651.0 | 4718.8 | 4547.1 | 4425.0 | 4325.6 | 4049.9 | 3765.1 |
| 45095.7 | 52.5° | 37240.0 | 24624.8 | 6599.2 | 4411.5 | 4470.2 | 4280.4 | 4397.9 | 4312.0 | 4009.2 | 3625.0 |
| 48743.3 | 55° | 40060.5 | 26496.0 | 6834.2 | 4131.2 | 4217.1 | 4040.9 | 4321.1 | 4257.8 | 3823.9 | 3390.0 |
| 52635.0 | 57.5° | 42926.1 | 28358.3 | 7064.7 | 3882.7 | 3973.1 | 3810.3 | 4199.0 | 4113.2 | 3616.0 | 3173.0 |
| 56883.8 | 60° | 45904.8 | 30166.3 | 7173.2 | 3643.1 | 3706.4 | 3597.9 | 4013.7 | 3864.6 | 3380.9 | 2951.5 |
| 61060.2 | 62.5° | 48693.6 | 31671.4 | 6996.9 | 3403.5 | 3444.2 | 3399.0 | 3769.7 | 3570.8 | 3145.9 | 2702.9 |
| 65413.0 | 65° | 51491.5 | 32566.4 | 6454.5 | 3168.5 | 3177.5 | 3154.9 | 3426.1 | 3254.4 | 2870.2 | 2486.0 |
| 69223.3 | 67.5° | 54027.2 | 33068.1 | 5591.2 | 2915.4 | 2892.8 | 2883.7 | 3105.2 | 2910.9 | 2603.5 | 2269.0 |
| 72120.6 | 70° | 54565.0 | 31793.4 | 4271.4 | 2617.1 | 2617.1 | 2594.5 | 2752.7 | 2553.8 | 2309.7 | 2038.5 |
| 70045.9 | 72.5° | 49837.2 | 26744.6 | 3032.9 | 2278.1 | 2314.2 | 2269.0 | 2400.1 | 2232.9 | 2011.4 | 1830.6 |
| 60368.7 | 75° | 40187.0 | 19612.1 | 2205.7 | 1930.0 | 1993.3 | 1916.5 | 2038.5 | 1921.0 | 1731.1 | 1726.6 |
| 41601.8 | 77.5° | 27612.5 | 12127.1 | 1600.1 | 1591.0 | 1636.2 | 1536.8 | 1676.9 | 1613.6 | 1441.9 | 1365.0 |
| 18107.0 | 80° | 11783.6 | 4836.4 | 1166.2 | 1229.4 | 1229.4 | 1139.0 | 1301.8 | 1319.8 | 1170.7 | 1134.5 |
| 3493.9 | 82.5° | 2345.9 | 1374.1 | 818.1 | 845.2 | 795.5 | 768.4 | 922.1 | 1021.5 | 1410.2 | 1568.4 |
| 1053.2 | 85° | 705.1 | 506.2 | 492.7 | 461.0 | 406.8 | 411.3 | 542.4 | 1026.0 | 1265.6 | 723.2 |
| 348.0 | 87.5° | 194.4 | 126.6 | 131.1 | 104.0 | 85.9 | 113.0 | 185.3 | 777.4 | 424.9 | 180.8 |
| 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> |
|-------------|
| 17153.3 |
| 16606.4 |
| 15155.4 |
| 12800.5 |
| 10219.6 |
| 8565.3 |
| 7489.6 |
| 7168.7 |
| 7042.1 |
| 6752.8 |
| 6422.9 |
| 6246.6 |
| 6156.2 |
| 6002.5 |
| 5532.4 |
| 4962.9 |
| 4352.7 |
| 4104.1 |
| 3936.9 |
| 3805.8 |
| 3733.5 |
| 3597.9 |
| 3367.4 |
| 3164.0 |
| 2938.0 |
| 2698.4 |
| 2458.9 |
| 2241.9 |
| 2029.5 |
| 1776.3 |
| 1554.9 |
| 1279.2 |
| 1134.5 |
| 1572.9 |
| 623.8 |
| 153.7 |
| 0.0 |

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