

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: P953120

Luminaire Tested: **GALN-SB6D-735-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953120
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6D-735-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 62535 lumens
Efficiency: N/A
Efficacy: 142.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

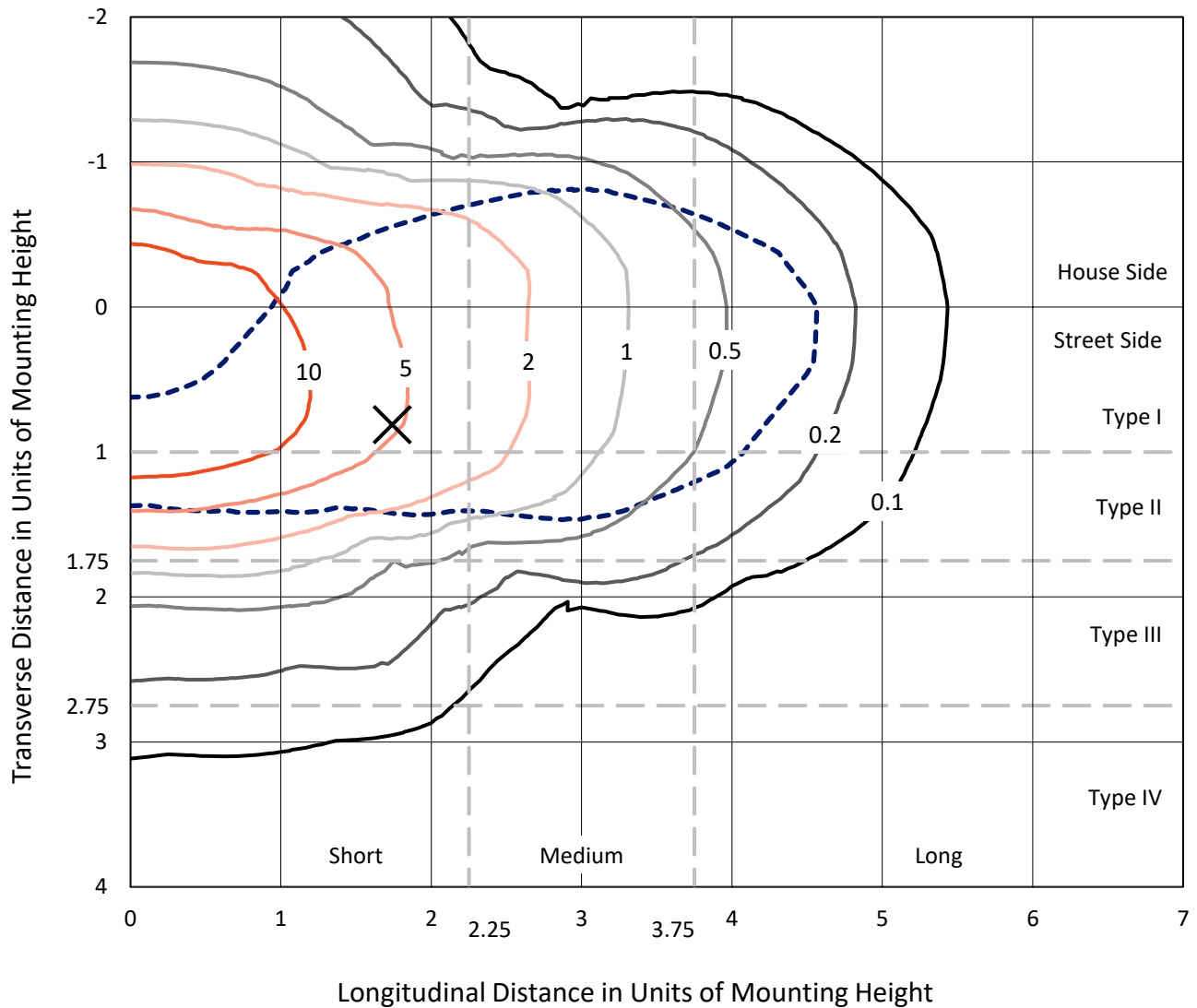
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

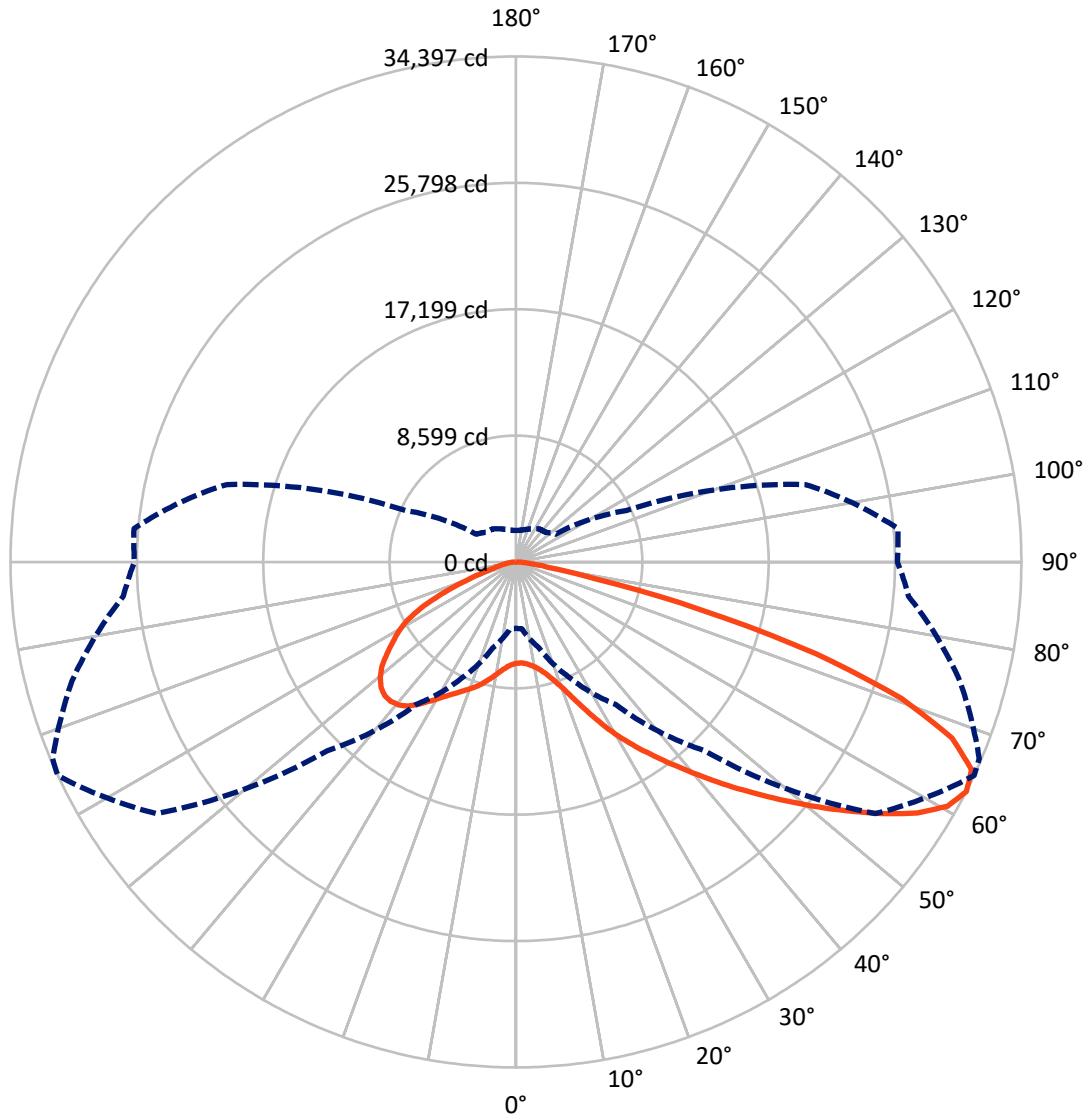
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 19733.3 | 0.0 | 19733.3 |
| | % Fixture | 31.6 | 0.0 | 31.6 |
| Street Side | Lumens | 42801.7 | 0.0 | 42801.7 |
| | % Fixture | 68.4 | 0.0 | 68.4 |
| Total | Lumens | 62535.0 | 0.0 | 62535.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 687.0 | 1.1 |
| 10°-20° | 2329.8 | 3.7 |
| 20°-30° | 4723.9 | 7.6 |
| 30°-40° | 8174.6 | 13.1 |
| 40°-50° | 12370.7 | 19.8 |
| 50°-60° | 14503.9 | 23.2 |
| 60°-70° | 12159.8 | 19.4 |
| 70°-80° | 6713.2 | 10.7 |
| 80°-90° | 872.0 | 1.4 |
| 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° | 62535.0 | 100.0 |
| 0°-180° | 62535.0 | 100.0 |

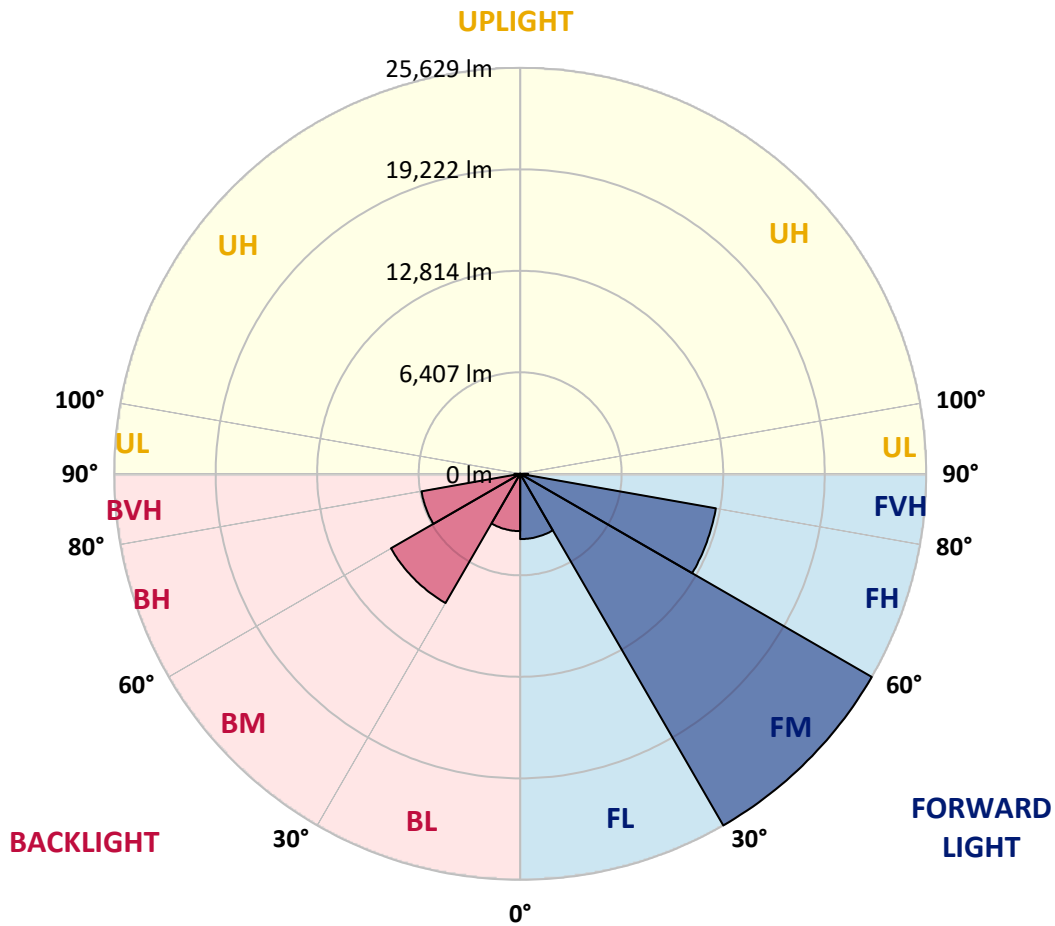


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 4121.9 | 6.6 | | | |
| FM (30°-60°) | 25628.9 | 41.0 | | | |
| FH (60°-80°) | 12542.7 | 20.1 | | | G5 |
| FVH (80°-90°) | 508.2 | 0.8 | | | G4/750 |
| BL (0°-30°) | 3618.9 | 5.8 | B4/5000 | | |
| BM (30°-60°) | 9420.4 | 15.1 | B5 | | |
| BH (60°-80°) | 6330.3 | 10.1 | B5 | | G5 |
| BVH (80°-90°) | 363.8 | 0.6 | | | 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 Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6891.1 | 6891.1 | 6891.1 | 6891.1 | 6891.1 | 6891.1 | 6891.1 | 6891.1 | 6891.1 | 6891.1 |
| 2.5° | 6845.7 | 6826.2 | 6842.4 | 6842.4 | 6848.9 | 6845.7 | 6868.4 | 6874.9 | 6884.6 | 6904.1 |
| 5° | 6777.5 | 6774.3 | 6803.5 | 6829.4 | 6855.4 | 6878.1 | 6907.3 | 6949.5 | 6956.0 | 6978.7 |
| 7.5° | 6754.8 | 6735.4 | 6780.8 | 6813.2 | 6874.9 | 6930.0 | 7007.9 | 7079.3 | 7108.5 | 7118.2 |
| 10° | 6930.0 | 6897.6 | 6939.8 | 6959.2 | 7011.1 | 7066.3 | 7157.1 | 7270.7 | 7303.1 | 7342.1 |
| 12.5° | 7228.5 | 7192.8 | 7254.5 | 7283.7 | 7332.3 | 7381.0 | 7442.6 | 7552.9 | 7569.2 | 7640.5 |
| 15° | 7637.3 | 7595.1 | 7634.1 | 7669.7 | 7750.8 | 7796.3 | 7857.9 | 7965.0 | 7965.0 | 8020.1 |
| 17.5° | 8192.1 | 8136.9 | 8166.1 | 8179.1 | 8231.0 | 8299.2 | 8403.0 | 8497.1 | 8545.7 | 8526.3 |
| 20° | 9019.4 | 8951.3 | 8951.3 | 8886.4 | 8866.9 | 8922.1 | 9058.3 | 9188.1 | 9240.0 | 9139.4 |
| 22.5° | 10262.0 | 10164.7 | 10109.5 | 9888.9 | 9801.3 | 9807.8 | 9944.1 | 10103.0 | 10145.2 | 9966.8 |
| 25° | 11842.0 | 11689.5 | 11614.9 | 11290.5 | 11092.6 | 10920.6 | 11027.7 | 11232.1 | 11290.5 | 11069.9 |
| 27.5° | 13422.0 | 13431.8 | 13360.4 | 12971.1 | 12643.4 | 12328.7 | 12273.5 | 12487.7 | 12549.3 | 12299.5 |
| 30° | 15638.0 | 15407.6 | 15271.3 | 14804.2 | 14337.0 | 13895.7 | 13668.6 | 13756.2 | 13772.4 | 13474.0 |
| 32.5° | 17548.9 | 17490.5 | 17198.5 | 16789.7 | 16189.5 | 15498.5 | 15118.9 | 14979.4 | 14953.4 | 14528.4 |
| 35° | 19725.9 | 19693.5 | 19385.2 | 18898.6 | 18249.7 | 17289.4 | 16604.8 | 16205.7 | 16173.3 | 15576.3 |
| 37.5° | 21938.6 | 21938.6 | 21636.8 | 21104.8 | 20433.2 | 19232.7 | 18191.3 | 17558.6 | 17454.8 | 16676.2 |
| 40° | 23703.5 | 23596.5 | 23651.6 | 23427.7 | 22658.8 | 21383.8 | 19953.0 | 19034.8 | 18895.3 | 17960.9 |
| 42.5° | 24706.0 | 24670.3 | 25001.3 | 25251.1 | 24936.4 | 23917.6 | 21893.1 | 20634.3 | 20439.7 | 19375.5 |
| 45° | 24929.9 | 24891.0 | 25481.4 | 26396.4 | 26837.6 | 26419.1 | 24002.0 | 22318.2 | 22081.3 | 20854.9 |
| 47.5° | 24414.0 | 24336.2 | 25202.4 | 26646.2 | 28060.7 | 28797.2 | 26286.1 | 24144.8 | 23800.9 | 22295.5 |
| 50° | 22863.2 | 22788.6 | 24099.3 | 26016.8 | 28472.8 | 30412.9 | 28764.8 | 26081.7 | 25556.1 | 23839.8 |
| 52.5° | 19492.3 | 19528.0 | 21581.7 | 24216.1 | 27931.0 | 31418.7 | 30899.6 | 28122.4 | 27489.7 | 25419.8 |
| 55° | 15183.7 | 15261.6 | 17785.7 | 20686.2 | 25763.7 | 31266.2 | 32356.3 | 30224.7 | 29595.3 | 26905.7 |
| 57.5° | 10872.0 | 11215.9 | 13581.0 | 16452.3 | 21601.2 | 28849.1 | 32674.3 | 32223.3 | 31613.3 | 28527.9 |
| 60° | 7046.8 | 7108.5 | 9541.8 | 12435.7 | 16449.1 | 24553.5 | 32028.6 | 33738.4 | 33261.5 | 30182.6 |
| 62.5° | 4516.2 | 4558.4 | 6041.1 | 8698.2 | 11838.8 | 18165.3 | 29854.9 | 34397.0 | 34251.0 | 31275.9 |
| 65° | 3319.0 | 3286.6 | 4058.7 | 5749.1 | 7974.7 | 11202.9 | 25633.9 | 34079.1 | 34367.8 | 31960.5 |
| 67.5° | 2770.7 | 2725.3 | 3104.9 | 3980.9 | 5875.6 | 6362.3 | 18966.7 | 32012.4 | 33070.1 | 31882.6 |
| 70° | 2524.1 | 2485.2 | 2715.6 | 2955.6 | 4584.3 | 4259.9 | 9561.2 | 27830.4 | 29459.1 | 30996.9 |
| 72.5° | 2138.1 | 2069.9 | 2384.6 | 2624.7 | 3565.6 | 3267.1 | 3951.7 | 21377.3 | 23362.9 | 28158.1 |
| 75° | 1657.9 | 1612.5 | 1881.7 | 2310.0 | 2679.9 | 2550.1 | 2498.2 | 12980.8 | 15148.1 | 21776.4 |
| 77.5° | 1314.0 | 1252.3 | 1498.9 | 1800.6 | 2410.6 | 1923.9 | 1820.1 | 5590.1 | 7737.9 | 13902.2 |
| 80° | 989.5 | 934.4 | 1138.8 | 1424.3 | 1852.5 | 1450.2 | 1177.7 | 2280.8 | 2916.7 | 7043.6 |
| 82.5° | 704.0 | 655.4 | 794.9 | 1044.7 | 1245.8 | 1301.0 | 723.5 | 1278.3 | 1437.3 | 2715.6 |
| 85° | 451.0 | 421.8 | 532.1 | 655.4 | 791.6 | 837.1 | 441.2 | 668.3 | 733.2 | 1119.3 |
| 87.5° | 246.6 | 201.2 | 285.5 | 305.0 | 366.6 | 334.2 | 210.9 | 243.3 | 262.8 | 405.5 |
| 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-SB6D-735-U-T2U

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|
| 6891.1 | 0° | 6891.1 | 6891.1 | 6891.1 | 6891.1 | 6891.1 | 6891.1 | 6891.1 | 6891.1 | 6891.1 | 6891.1 |
| 6904.1 | 2.5° | 6917.0 | 6926.8 | 6959.2 | 6969.0 | 6991.7 | 7020.9 | 7040.3 | 7059.8 | 7059.8 | 7079.3 |
| 7007.9 | 5° | 7011.1 | 7033.8 | 7102.0 | 7137.7 | 7196.1 | 7254.5 | 7290.1 | 7332.3 | 7358.3 | 7371.3 |
| 7173.3 | 7.5° | 7192.8 | 7228.5 | 7325.8 | 7387.5 | 7488.1 | 7569.2 | 7624.3 | 7682.7 | 7695.7 | 7731.4 |
| 7403.7 | 10° | 7439.4 | 7481.6 | 7591.9 | 7708.7 | 7828.7 | 7929.3 | 7981.2 | 8023.4 | 8039.6 | 8046.1 |
| 7698.9 | 12.5° | 7721.6 | 7783.3 | 7926.0 | 8068.8 | 8195.3 | 8282.9 | 8295.9 | 8286.2 | 8240.8 | 8201.8 |
| 8062.3 | 15° | 8068.8 | 8124.0 | 8282.9 | 8438.7 | 8561.9 | 8578.2 | 8497.1 | 8445.1 | 8390.0 | 8380.3 |
| 8467.9 | 17.5° | 8484.1 | 8513.3 | 8659.3 | 8811.8 | 8821.5 | 8766.3 | 8646.3 | 8597.6 | 8545.7 | 8510.0 |
| 8996.7 | 20° | 8967.5 | 8957.8 | 9061.6 | 9126.5 | 9058.3 | 8889.6 | 8707.9 | 8626.8 | 8574.9 | 8532.7 |
| 9645.6 | 22.5° | 9545.0 | 9470.4 | 9457.4 | 9441.2 | 9259.5 | 8905.9 | 8659.3 | 8555.5 | 8474.3 | 8415.9 |
| 10550.8 | 25° | 10385.3 | 10099.8 | 9901.9 | 9791.6 | 9382.8 | 8818.3 | 8503.5 | 8273.2 | 8120.7 | 8020.1 |
| 11657.1 | 27.5° | 11436.5 | 10956.3 | 10456.7 | 10187.4 | 9382.8 | 8639.8 | 8127.2 | 7754.1 | 7504.3 | 7400.5 |
| 12727.7 | 30° | 12439.0 | 11936.1 | 11199.6 | 10664.3 | 9360.1 | 8347.8 | 7520.5 | 7001.4 | 6709.4 | 6605.6 |
| 13642.7 | 32.5° | 13295.5 | 12747.2 | 11988.0 | 11186.7 | 9304.9 | 7874.1 | 6767.8 | 6193.5 | 5911.3 | 5788.0 |
| 14547.8 | 35° | 14090.4 | 13506.4 | 12779.7 | 11760.9 | 9158.9 | 7179.8 | 5940.5 | 5502.5 | 5187.8 | 4989.9 |
| 15469.3 | 37.5° | 14904.7 | 14210.4 | 13529.1 | 12280.0 | 8896.1 | 6368.7 | 5304.6 | 4931.5 | 4561.6 | 4295.6 |
| 16449.1 | 40° | 15790.4 | 14959.9 | 14330.5 | 12588.2 | 8464.6 | 5596.6 | 4811.4 | 4470.8 | 4078.2 | 3795.9 |
| 17578.1 | 42.5° | 16825.4 | 15858.6 | 15222.7 | 12747.2 | 7874.1 | 5048.3 | 4490.2 | 4156.1 | 3786.2 | 3555.9 |
| 18788.3 | 45° | 17905.8 | 16848.1 | 16037.0 | 12744.0 | 7215.5 | 4792.0 | 4386.4 | 4055.5 | 3646.7 | 3406.6 |
| 20030.9 | 47.5° | 19038.1 | 17883.1 | 16741.1 | 12536.3 | 6644.5 | 4827.7 | 4328.0 | 3838.1 | 3387.1 | 3153.5 |
| 21286.4 | 50° | 20173.6 | 19015.4 | 17422.4 | 12147.0 | 6401.2 | 4749.8 | 4110.6 | 3533.1 | 3001.1 | 2790.2 |
| 22464.2 | 52.5° | 21299.4 | 20219.0 | 18009.6 | 11592.2 | 6154.6 | 4461.0 | 3831.6 | 3137.3 | 2842.1 | 2696.1 |
| 23680.8 | 55° | 22431.7 | 21409.7 | 18648.8 | 10784.4 | 5538.2 | 4123.6 | 3364.4 | 2988.1 | 2715.6 | 2582.5 |
| 24871.5 | 57.5° | 23567.3 | 22785.4 | 19255.5 | 9976.5 | 4762.8 | 3708.3 | 3108.1 | 2806.4 | 2589.0 | 2475.5 |
| 25867.5 | 60° | 24748.2 | 24358.9 | 19881.6 | 9233.5 | 3997.1 | 3176.3 | 2920.0 | 2660.4 | 2439.8 | 2313.3 |
| 26824.6 | 62.5° | 25964.9 | 26091.4 | 20371.5 | 8276.4 | 3293.1 | 2851.8 | 2751.2 | 2485.2 | 2271.1 | 2151.0 |
| 27616.3 | 65° | 27191.2 | 27762.3 | 20692.7 | 6949.5 | 2670.1 | 2543.6 | 2569.6 | 2293.8 | 2076.4 | 1972.6 |
| 28197.0 | 67.5° | 28115.9 | 28965.9 | 20601.9 | 5259.2 | 2190.0 | 2251.6 | 2342.5 | 2092.6 | 1888.2 | 1807.1 |
| 28102.9 | 70° | 28219.7 | 28823.2 | 19706.4 | 3601.3 | 1833.1 | 1966.1 | 2089.4 | 1894.7 | 1683.8 | 1625.4 |
| 26779.2 | 72.5° | 26837.6 | 26876.5 | 17211.5 | 2352.2 | 1550.8 | 1726.0 | 1823.3 | 1693.6 | 1489.2 | 1430.8 |
| 23427.7 | 75° | 23213.6 | 22227.3 | 12636.9 | 1550.8 | 1297.8 | 1482.7 | 1573.5 | 1482.7 | 1284.8 | 1297.8 |
| 17529.4 | 77.5° | 17587.8 | 15741.8 | 7673.0 | 1103.1 | 1083.6 | 1245.8 | 1369.1 | 1304.2 | 1135.5 | 1275.0 |
| 8815.0 | 80° | 9061.6 | 8516.5 | 3422.8 | 824.1 | 856.5 | 996.0 | 1125.8 | 1041.4 | 898.7 | 856.5 |
| 1969.3 | 82.5° | 2076.4 | 2413.8 | 1349.7 | 590.5 | 619.7 | 717.0 | 859.8 | 781.9 | 645.6 | 545.1 |
| 820.8 | 85° | 726.7 | 794.9 | 597.0 | 369.9 | 363.4 | 447.7 | 584.0 | 522.3 | 438.0 | 350.4 |
| 347.1 | 87.5° | 230.4 | 301.7 | 223.9 | 149.2 | 155.7 | 201.2 | 269.3 | 246.6 | 204.4 | 133.0 |
| 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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| <u>180°</u> |
|-------------|
| 6891.1 |
| 7079.3 |
| 7377.7 |
| 7718.4 |
| 8029.9 |
| 8201.8 |
| 8380.3 |
| 8513.3 |
| 8536.0 |
| 8435.4 |
| 8059.1 |
| 7452.4 |
| 6667.2 |
| 5849.6 |
| 5054.8 |
| 4366.9 |
| 3851.1 |
| 3601.3 |
| 3445.5 |
| 3186.0 |
| 2803.2 |
| 2696.1 |
| 2569.6 |
| 2456.0 |
| 2303.5 |
| 2147.8 |
| 1969.3 |
| 1810.4 |
| 1628.7 |
| 1427.5 |
| 1252.3 |
| 1122.6 |
| 781.9 |
| 538.6 |
| 369.9 |
| 139.5 |
| 0.0 |

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