

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: P951493

Luminaire Tested: **GALN-SB5C-850-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951493
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-SB5C-850-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35967 lumens
Efficiency: N/A
Efficacy: 144.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

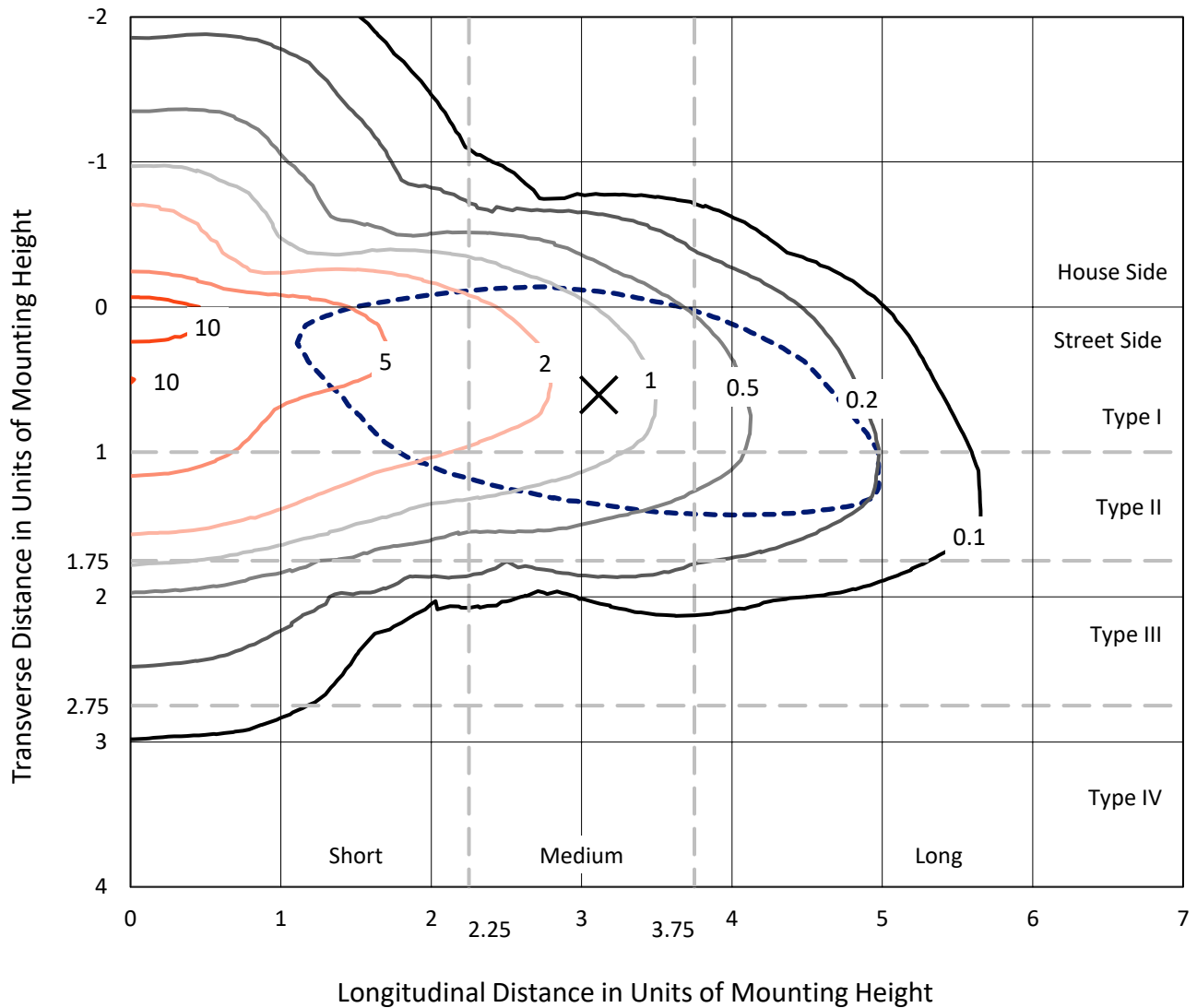
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

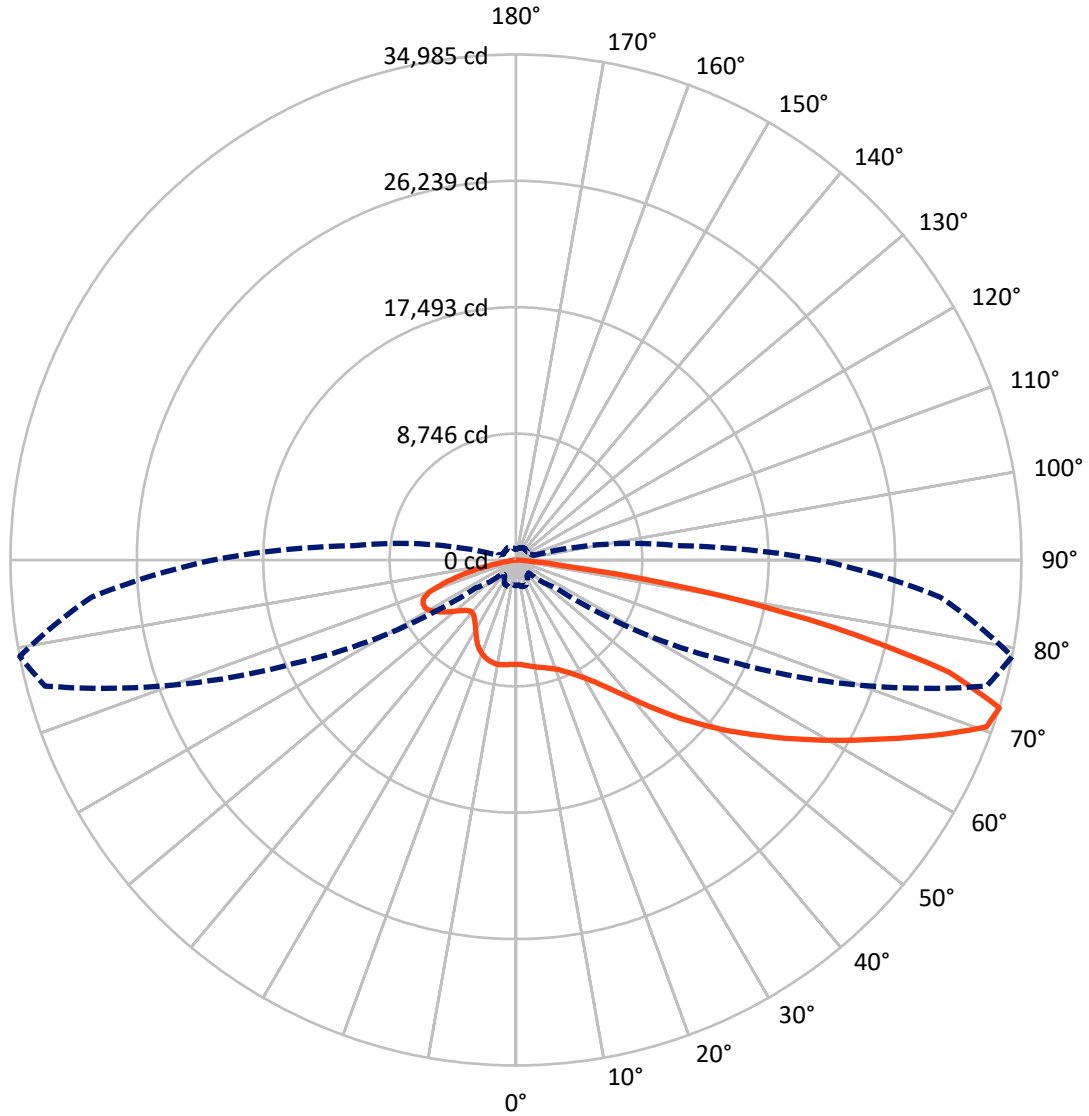
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 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 | 7914.7 | 0.0 | 7914.7 |
| | % Fixture | 22.0 | 0.0 | 22.0 |
| Street Side | Lumens | 28052.3 | 0.0 | 28052.3 |
| | % Fixture | 78.0 | 0.0 | 78.0 |
| Total | Lumens | 35967.0 | 0.0 | 35967.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 655.4 | 1.8 |
| 10°-20° | 1713.5 | 4.8 |
| 20°-30° | 2764.8 | 7.7 |
| 30°-40° | 4149.6 | 11.5 |
| 40°-50° | 5886.5 | 16.4 |
| 50°-60° | 7433.8 | 20.7 |
| 60°-70° | 7550.1 | 21.0 |
| 70°-80° | 5145.7 | 14.3 |
| 80°-90° | 667.6 | 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° | 35967.0 | 100.0 |
| 0°-180° | 35967.0 | 100.0 |



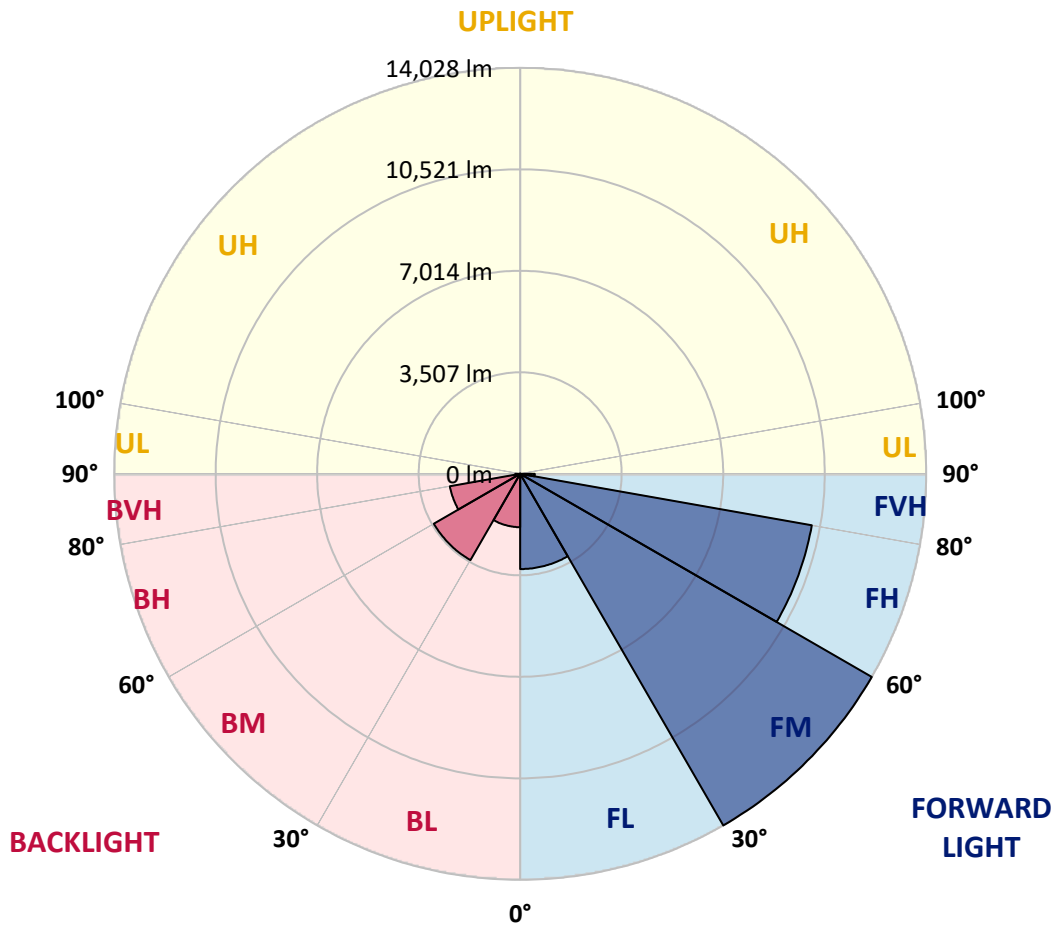
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 3290.1 | 9.1 | | | |
| FM (30°-60°) | 14027.9 | 39.0 | | | |
| FH (60°-80°) | 10231.4 | 28.4 | | | G4/12000 |
| FVH (80°-90°) | 502.9 | 1.4 | | | G4/750 |
| BL (0°-30°) | 1843.6 | 5.1 | B3/2500 | | |
| BM (30°-60°) | 3442.1 | 9.6 | B3/5000 | | |
| BH (60°-80°) | 2464.4 | 6.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 164.7 | 0.5 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 79° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7220.0 | 7220.0 | 7220.0 | 7220.0 | 7220.0 | 7220.0 | 7220.0 | 7220.0 | 7220.0 | 7220.0 |
| 2.5° | 7223.8 | 7189.6 | 7210.5 | 7202.9 | 7212.4 | 7223.8 | 7227.6 | 7233.4 | 7252.4 | 7250.5 |
| 5° | 7208.6 | 7174.4 | 7202.9 | 7193.4 | 7218.1 | 7244.8 | 7267.6 | 7288.5 | 7319.0 | 7332.3 |
| 7.5° | 7176.3 | 7153.4 | 7182.0 | 7210.5 | 7256.2 | 7296.1 | 7328.5 | 7376.0 | 7419.8 | 7427.4 |
| 10° | 6987.9 | 6970.8 | 7037.4 | 7111.6 | 7237.2 | 7345.6 | 7416.0 | 7471.2 | 7518.7 | 7526.3 |
| 12.5° | 6792.0 | 6771.0 | 6845.2 | 6946.1 | 7149.6 | 7345.6 | 7494.0 | 7566.3 | 7608.1 | 7632.9 |
| 15° | 6759.6 | 6742.5 | 6784.4 | 6871.9 | 7041.2 | 7294.2 | 7547.3 | 7680.4 | 7716.6 | 7745.1 |
| 17.5° | 6915.6 | 6883.3 | 6900.4 | 6930.9 | 7029.8 | 7246.7 | 7589.1 | 7809.8 | 7865.0 | 7895.4 |
| 20° | 7277.1 | 7231.4 | 7204.8 | 7143.9 | 7126.8 | 7254.3 | 7585.3 | 7965.8 | 8038.1 | 8076.2 |
| 22.5° | 7758.4 | 7728.0 | 7670.9 | 7516.8 | 7349.4 | 7347.5 | 7657.6 | 8165.6 | 8300.7 | 8336.8 |
| 25° | 8340.6 | 8295.0 | 8222.7 | 8013.4 | 7691.9 | 7532.0 | 7779.4 | 8420.5 | 8646.9 | 8656.4 |
| 27.5° | 9010.3 | 8941.8 | 8842.9 | 8567.0 | 8133.2 | 7821.2 | 7965.8 | 8713.5 | 9044.5 | 9040.7 |
| 30° | 9716.1 | 9647.6 | 9543.0 | 9208.2 | 8662.1 | 8211.2 | 8224.6 | 9029.3 | 9516.4 | 9495.4 |
| 32.5° | 10231.7 | 10180.3 | 10159.4 | 9900.7 | 9270.9 | 8671.6 | 8521.4 | 9379.4 | 10098.5 | 10079.5 |
| 35° | 10627.4 | 10560.8 | 10585.6 | 10454.3 | 9934.9 | 9187.2 | 8884.7 | 9796.0 | 10806.3 | 10804.4 |
| 37.5° | 11019.3 | 10960.4 | 10981.3 | 10893.8 | 10549.4 | 9841.7 | 9328.0 | 10305.9 | 11683.3 | 11725.2 |
| 40° | 11377.0 | 11314.2 | 11397.9 | 11316.1 | 11027.0 | 10538.0 | 9832.2 | 10882.4 | 12699.3 | 12779.2 |
| 42.5° | 11592.0 | 11542.5 | 11681.4 | 11683.3 | 11441.7 | 11125.9 | 10385.8 | 11517.8 | 13875.0 | 14053.9 |
| 45° | 11666.2 | 11649.1 | 11858.4 | 11902.1 | 11808.9 | 11466.4 | 10884.3 | 12210.3 | 15142.1 | 15461.7 |
| 47.5° | 11586.3 | 11554.0 | 11843.1 | 12004.9 | 12079.0 | 11626.3 | 11297.1 | 12959.9 | 16435.8 | 16903.8 |
| 50° | 11183.0 | 11120.2 | 11550.2 | 11890.7 | 12155.1 | 11730.9 | 11713.8 | 13825.6 | 17906.4 | 18418.2 |
| 52.5° | 10458.1 | 10410.5 | 10899.5 | 11491.2 | 11987.7 | 11782.3 | 12181.8 | 14771.1 | 19302.9 | 19965.0 |
| 55° | 9531.6 | 9468.8 | 10007.2 | 10779.6 | 11571.1 | 11765.1 | 12649.8 | 15828.9 | 20950.5 | 21622.0 |
| 57.5° | 8062.8 | 7937.3 | 8618.4 | 9531.6 | 10891.9 | 11744.2 | 13136.8 | 16881.0 | 22624.7 | 23429.4 |
| 60° | 5920.6 | 5734.2 | 6569.4 | 7651.9 | 9563.9 | 11540.6 | 13739.9 | 18060.5 | 24633.7 | 25358.6 |
| 62.5° | 3447.4 | 3338.9 | 3884.9 | 4895.2 | 7208.6 | 10342.1 | 14078.6 | 19432.3 | 26608.5 | 27369.5 |
| 65° | 2676.8 | 2646.4 | 2694.0 | 2772.0 | 4012.4 | 7743.2 | 13034.1 | 20769.7 | 29119.8 | 29652.6 |
| 67.5° | 2448.5 | 2425.7 | 2446.6 | 2300.1 | 2035.7 | 4313.0 | 10311.6 | 21108.4 | 31810.0 | 32133.4 |
| 70° | 2176.5 | 2149.8 | 2218.3 | 2092.8 | 1601.9 | 1961.5 | 6662.6 | 19879.3 | 33950.3 | 34557.2 |
| 72.5° | 1773.1 | 1742.7 | 1902.5 | 1845.4 | 1348.9 | 1259.5 | 3346.5 | 16959.0 | 33725.8 | 34985.3 |
| 75° | 1362.2 | 1345.1 | 1535.3 | 1582.9 | 1099.7 | 991.2 | 1605.7 | 12606.0 | 29679.2 | 30948.2 |
| 77.5° | 1057.8 | 1044.5 | 1141.5 | 1314.6 | 886.6 | 768.6 | 987.4 | 7996.3 | 22365.9 | 22588.5 |
| 80° | 793.3 | 755.3 | 844.7 | 1017.8 | 690.6 | 561.2 | 669.7 | 4663.1 | 14137.6 | 12815.3 |
| 82.5° | 496.6 | 477.5 | 551.7 | 679.2 | 487.0 | 386.2 | 435.7 | 2576.0 | 5665.7 | 3337.0 |
| 85° | 283.5 | 275.9 | 300.6 | 388.1 | 264.4 | 222.6 | 249.2 | 1137.7 | 1035.0 | 711.5 |
| 87.5° | 114.2 | 110.3 | 137.0 | 173.1 | 97.0 | 81.8 | 87.5 | 274.0 | 228.3 | 211.2 |
| 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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CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 7220.0 | 0° | 7220.0 | 7220.0 | 7220.0 | 7220.0 | 7220.0 | 7220.0 | 7220.0 | 7220.0 | 7220.0 | 7220.0 |
| 7248.6 | 2.5° | 7241.0 | 7241.0 | 7214.3 | 7172.5 | 7124.9 | 7094.5 | 7045.0 | 7031.7 | 6980.3 | 6965.1 |
| 7313.3 | 5° | 7328.5 | 7313.3 | 7231.4 | 7113.5 | 6951.8 | 6803.4 | 6639.8 | 6537.0 | 6392.4 | 6341.1 |
| 7440.7 | 7.5° | 7438.8 | 7397.0 | 7256.2 | 6997.4 | 6658.8 | 6325.9 | 5979.6 | 5717.0 | 5465.9 | 5376.5 |
| 7545.4 | 10° | 7539.7 | 7480.7 | 7241.0 | 6788.2 | 6202.2 | 5625.7 | 5074.0 | 4687.8 | 4394.8 | 4274.9 |
| 7661.4 | 12.5° | 7640.5 | 7532.0 | 7140.1 | 6440.0 | 5553.4 | 4771.5 | 4183.6 | 3883.0 | 3702.3 | 3557.7 |
| 7756.5 | 15° | 7735.6 | 7583.4 | 6984.1 | 5973.9 | 4841.9 | 4048.5 | 3614.8 | 3375.1 | 3230.5 | 3135.3 |
| 7895.4 | 17.5° | 7846.0 | 7627.2 | 6750.1 | 5382.2 | 4164.6 | 3548.2 | 3194.3 | 3049.7 | 3021.2 | 3009.8 |
| 8085.7 | 20° | 8000.1 | 7667.1 | 6441.9 | 4720.1 | 3666.1 | 3148.7 | 2966.0 | 2952.7 | 2950.8 | 2945.1 |
| 8314.0 | 22.5° | 8165.6 | 7714.7 | 6034.8 | 4118.9 | 3241.9 | 2899.4 | 2867.1 | 2840.5 | 2823.3 | 2821.4 |
| 8589.8 | 25° | 8361.5 | 7729.9 | 5524.9 | 3626.2 | 2880.4 | 2781.5 | 2743.4 | 2703.5 | 2692.1 | 2692.1 |
| 8903.8 | 27.5° | 8551.8 | 7678.5 | 4931.3 | 3198.1 | 2676.8 | 2673.0 | 2623.6 | 2610.2 | 2608.3 | 2614.1 |
| 9261.4 | 30° | 8742.0 | 7581.5 | 4341.5 | 2802.4 | 2558.9 | 2558.9 | 2541.8 | 2551.3 | 2558.9 | 2577.9 |
| 9752.3 | 32.5° | 8998.9 | 7478.8 | 3848.8 | 2509.4 | 2456.1 | 2437.1 | 2454.2 | 2473.3 | 2480.9 | 2505.6 |
| 10397.2 | 35° | 9375.6 | 7406.5 | 3456.9 | 2349.6 | 2349.6 | 2324.9 | 2334.4 | 2330.6 | 2313.5 | 2302.0 |
| 11177.3 | 37.5° | 9874.0 | 7402.7 | 3133.4 | 2275.4 | 2260.2 | 2256.4 | 2258.3 | 2233.5 | 2167.0 | 2087.1 |
| 12120.9 | 40° | 10473.3 | 7505.4 | 2884.2 | 2224.0 | 2212.6 | 2235.5 | 2224.0 | 2157.4 | 1974.8 | 1835.9 |
| 13281.4 | 42.5° | 11278.1 | 7798.4 | 2724.4 | 2161.3 | 2195.5 | 2224.0 | 2178.4 | 1948.2 | 1824.5 | 1731.3 |
| 14603.7 | 45° | 12225.5 | 8274.0 | 2642.6 | 2094.7 | 2163.2 | 2197.4 | 1976.7 | 1875.9 | 1776.9 | 1664.7 |
| 16045.8 | 47.5° | 13298.6 | 8873.3 | 2623.6 | 2031.9 | 2090.9 | 2111.8 | 1891.1 | 1845.4 | 1733.2 | 1611.4 |
| 17495.5 | 50° | 14466.7 | 9583.0 | 2674.9 | 1957.7 | 1986.2 | 1913.9 | 1862.6 | 1820.7 | 1704.7 | 1584.8 |
| 18981.4 | 52.5° | 15674.8 | 10364.9 | 2777.7 | 1856.9 | 1881.6 | 1801.7 | 1851.1 | 1815.0 | 1687.5 | 1525.8 |
| 20516.7 | 55° | 16862.0 | 11152.5 | 2876.6 | 1738.9 | 1775.0 | 1700.8 | 1818.8 | 1792.2 | 1609.5 | 1426.9 |
| 22154.8 | 57.5° | 18068.2 | 11936.4 | 2973.6 | 1634.3 | 1672.3 | 1603.8 | 1767.4 | 1731.3 | 1522.0 | 1335.6 |
| 23943.1 | 60° | 19321.9 | 12697.4 | 3019.3 | 1533.4 | 1560.1 | 1514.4 | 1689.4 | 1626.6 | 1423.1 | 1242.3 |
| 25701.0 | 62.5° | 20495.8 | 13330.9 | 2945.1 | 1432.6 | 1449.7 | 1430.7 | 1586.7 | 1503.0 | 1324.1 | 1137.7 |
| 27533.2 | 65° | 21673.4 | 13707.6 | 2716.8 | 1333.7 | 1337.5 | 1328.0 | 1442.1 | 1369.8 | 1208.1 | 1046.4 |
| 29137.0 | 67.5° | 22740.7 | 13918.8 | 2353.4 | 1227.1 | 1217.6 | 1213.8 | 1307.0 | 1225.2 | 1095.8 | 955.1 |
| 30356.5 | 70° | 22967.1 | 13382.3 | 1797.9 | 1101.6 | 1101.6 | 1092.0 | 1158.6 | 1074.9 | 972.2 | 858.0 |
| 29483.2 | 72.5° | 20977.1 | 11257.2 | 1276.6 | 958.9 | 974.1 | 955.1 | 1010.2 | 939.8 | 846.6 | 770.5 |
| 25410.0 | 75° | 16915.2 | 8255.0 | 928.4 | 812.4 | 839.0 | 806.7 | 858.0 | 808.6 | 728.7 | 726.8 |
| 17510.7 | 77.5° | 11622.4 | 5104.4 | 673.5 | 669.7 | 688.7 | 646.9 | 705.8 | 679.2 | 606.9 | 574.6 |
| 7621.5 | 80° | 4959.8 | 2035.7 | 490.8 | 517.5 | 517.5 | 479.4 | 547.9 | 555.5 | 492.8 | 477.5 |
| 1470.6 | 82.5° | 987.4 | 578.4 | 344.4 | 355.8 | 334.8 | 323.4 | 388.1 | 430.0 | 593.6 | 660.2 |
| 443.3 | 85° | 296.8 | 213.1 | 207.4 | 194.1 | 171.2 | 173.1 | 228.3 | 431.9 | 532.7 | 304.4 |
| 146.5 | 87.5° | 81.8 | 53.3 | 55.2 | 43.8 | 36.1 | 47.6 | 78.0 | 327.2 | 178.8 | 76.1 |
| 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> |
|-------------|
| 7220.0 |
| 6989.8 |
| 6379.1 |
| 5387.9 |
| 4301.6 |
| 3605.3 |
| 3152.5 |
| 3017.4 |
| 2964.1 |
| 2842.4 |
| 2703.5 |
| 2629.3 |
| 2591.2 |
| 2526.5 |
| 2328.7 |
| 2089.0 |
| 1832.1 |
| 1727.5 |
| 1657.1 |
| 1601.9 |
| 1571.5 |
| 1514.4 |
| 1417.4 |
| 1331.8 |
| 1236.6 |
| 1135.8 |
| 1035.0 |
| 943.6 |
| 854.2 |
| 747.7 |
| 654.5 |
| 538.4 |
| 477.5 |
| 662.1 |
| 262.5 |
| 64.7 |
| 0.0 |

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