

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: P942425

Luminaire Tested: **GALN-SB6B-935-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942425
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-SB6B-935-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 90 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23537 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

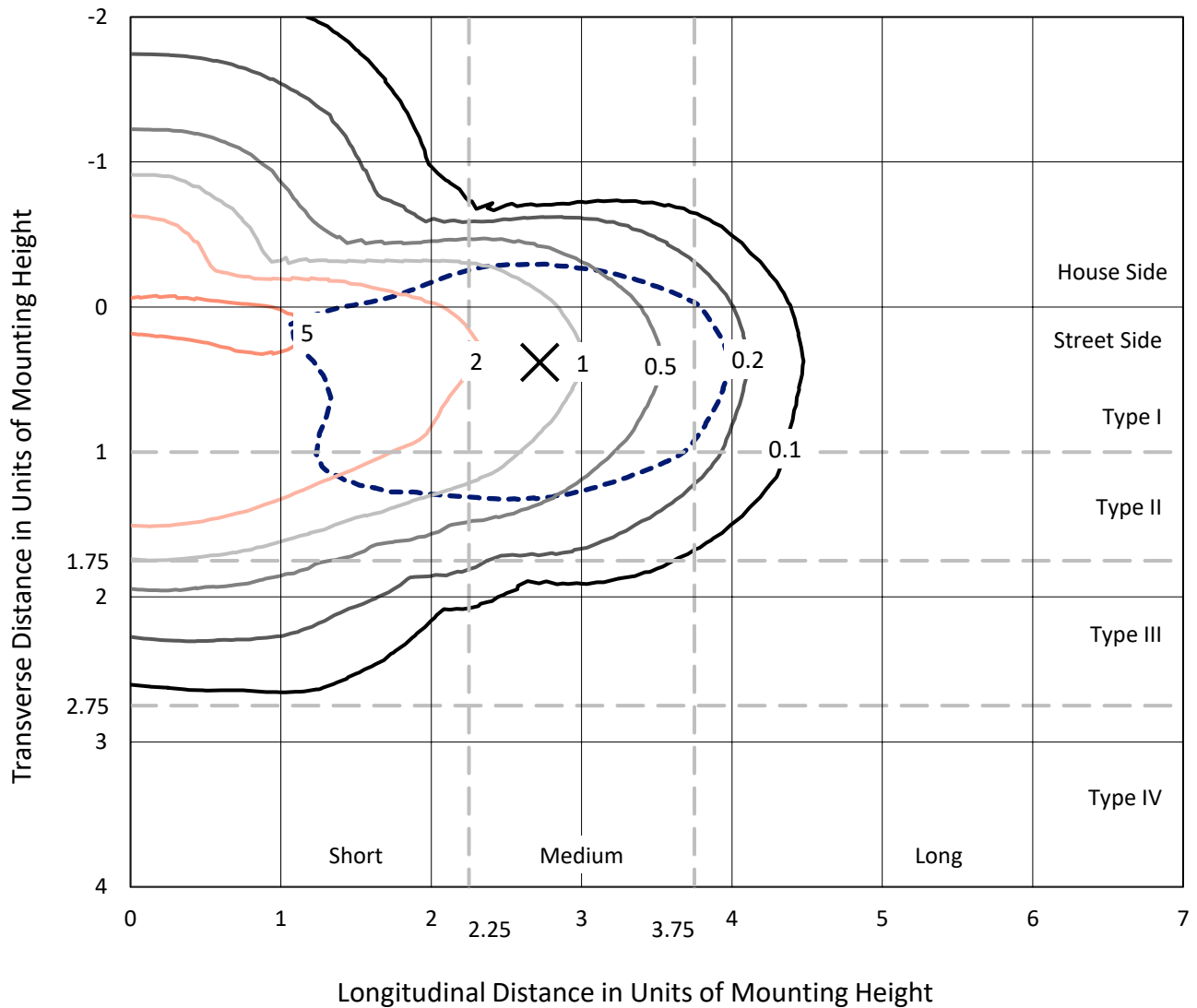
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

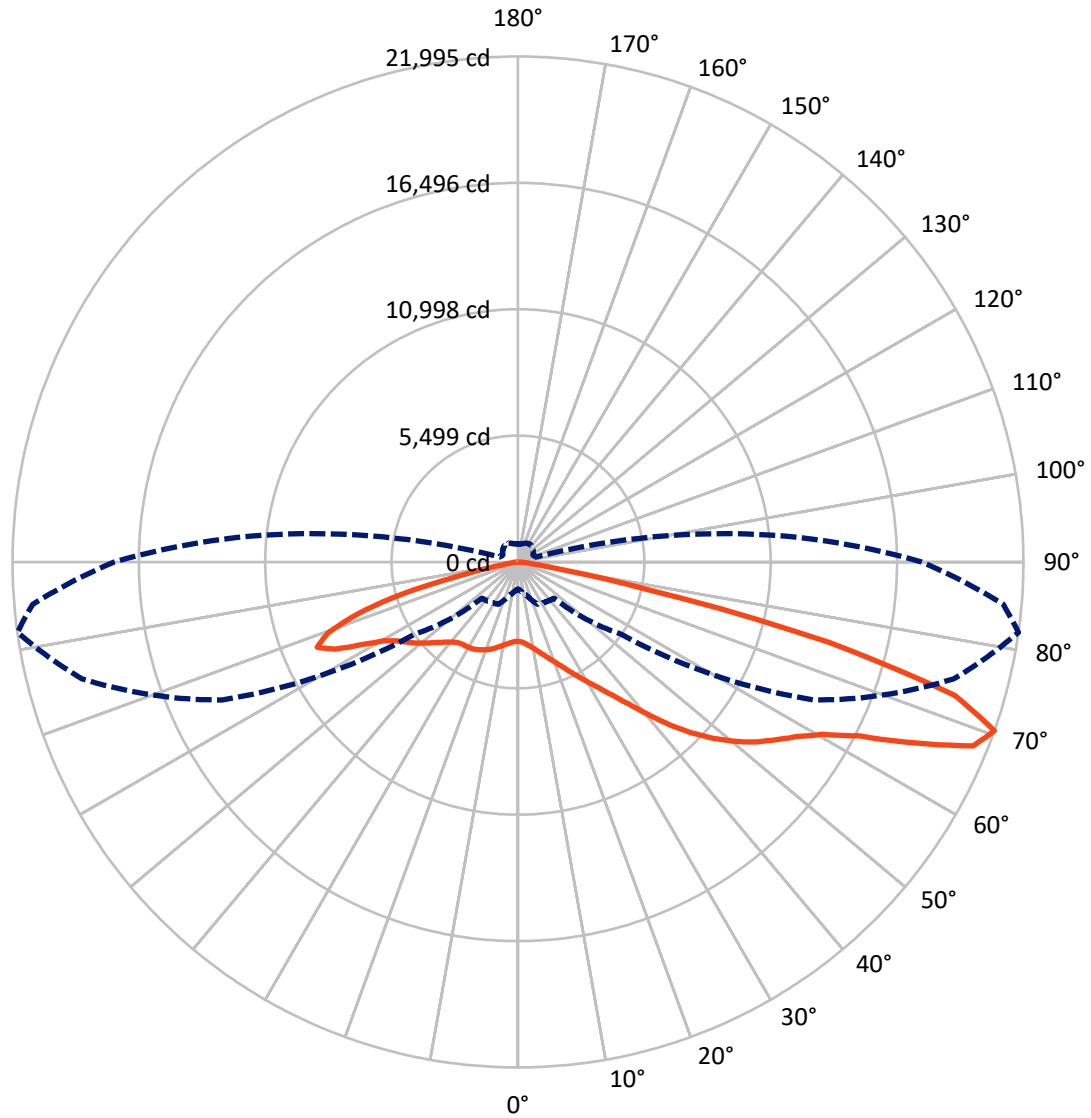
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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 | 5802.5 | 0.0 | 5802.5 |
| | % Fixture | 24.7 | 0.0 | 24.7 |
| Street Side | Lumens | 17734.6 | 0.0 | 17734.6 |
| | % Fixture | 75.3 | 0.0 | 75.3 |
| Total | Lumens | 23537.0 | 0.0 | 23537.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 325.8 | 1.4 |
| 10°-20° | 936.1 | 4.0 |
| 20°-30° | 1566.0 | 6.7 |
| 30°-40° | 2446.5 | 10.4 |
| 40°-50° | 3896.3 | 16.6 |
| 50°-60° | 5422.2 | 23.0 |
| 60°-70° | 5671.9 | 24.1 |
| 70°-80° | 2964.4 | 12.6 |
| 80°-90° | 307.8 | 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° | 23537.0 | 100.0 |
| 0°-180° | 23537.0 | 100.0 |

Coefficient of Utilization



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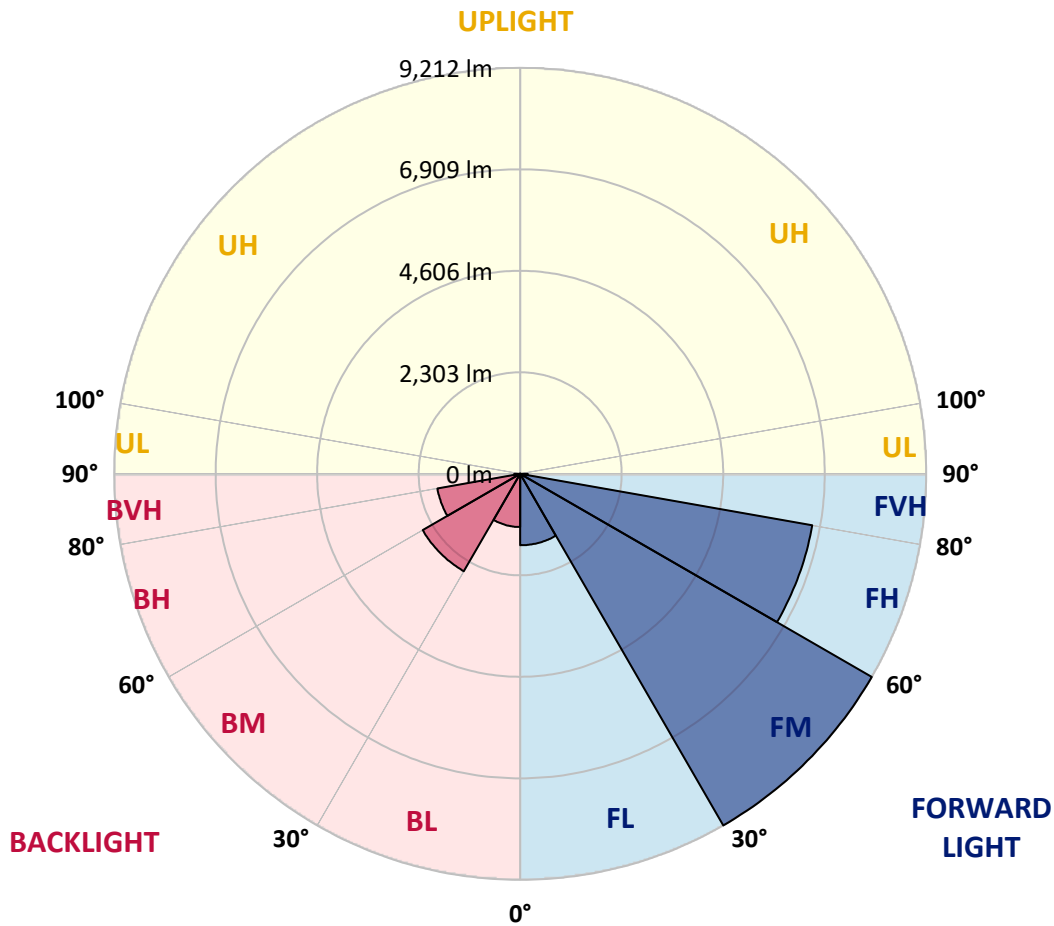
CATALOG NUMBER: GALN-SB6B-935-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1620.8 | 6.9 | | | |
| FM (30°-60°) | 9212.1 | 39.1 | | | |
| FH (60°-80°) | 6729.3 | 28.6 | | | G3/7500 |
| FVH (80°-90°) | 172.3 | 0.7 | | | G2/225 |
| BL (0°-30°) | 1207.1 | 5.1 | B3/2500 | | |
| BM (30°-60°) | 2552.8 | 10.8 | B3/5000 | | |
| BH (60°-80°) | 1907.0 | 8.1 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 135.5 | 0.6 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 82° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0° | 3450.8 | 3450.8 | 3450.8 | 3450.8 | 3450.8 | 3450.8 | 3450.8 | 3450.8 | 3450.8 | 3450.8 |
| 2.5° | 3533.2 | 3553.2 | 3547.0 | 3540.7 | 3540.7 | 3532.0 | 3530.8 | 3518.3 | 3508.3 | 3492.0 |
| 5° | 3578.2 | 3599.4 | 3596.9 | 3601.9 | 3618.2 | 3621.9 | 3625.7 | 3618.2 | 3598.2 | 3578.2 |
| 7.5° | 3538.2 | 3562.0 | 3569.5 | 3599.4 | 3649.4 | 3694.4 | 3728.1 | 3741.8 | 3723.1 | 3694.4 |
| 10° | 3403.4 | 3429.6 | 3455.8 | 3527.0 | 3615.7 | 3721.8 | 3811.8 | 3865.5 | 3861.7 | 3834.2 |
| 12.5° | 3129.8 | 3157.3 | 3213.5 | 3352.2 | 3514.5 | 3701.9 | 3869.2 | 3981.6 | 4020.3 | 4000.4 |
| 15° | 2911.3 | 2935.0 | 2977.5 | 3119.8 | 3330.9 | 3615.7 | 3890.4 | 4109.0 | 4207.7 | 4196.4 |
| 17.5° | 2905.0 | 2915.0 | 2941.3 | 3008.7 | 3171.1 | 3480.8 | 3868.0 | 4233.9 | 4422.5 | 4421.2 |
| 20° | 3014.9 | 3018.7 | 3033.7 | 3047.4 | 3139.8 | 3378.4 | 3810.5 | 4337.6 | 4663.5 | 4663.5 |
| 22.5° | 3167.3 | 3164.8 | 3179.8 | 3167.3 | 3212.3 | 3369.6 | 3774.3 | 4428.7 | 4932.1 | 4952.0 |
| 25° | 3395.9 | 3383.4 | 3379.6 | 3350.9 | 3359.6 | 3450.8 | 3814.3 | 4532.4 | 5250.5 | 5291.8 |
| 27.5° | 3700.6 | 3680.6 | 3666.9 | 3600.7 | 3578.2 | 3618.2 | 3936.7 | 4657.3 | 5605.2 | 5676.4 |
| 30° | 4097.8 | 4061.5 | 4041.6 | 3926.7 | 3845.5 | 3851.7 | 4121.5 | 4823.4 | 5976.2 | 6091.1 |
| 32.5° | 4639.8 | 4583.6 | 4529.9 | 4341.3 | 4192.7 | 4144.0 | 4360.0 | 5053.2 | 6378.3 | 6561.9 |
| 35° | 5246.8 | 5201.8 | 5144.4 | 4853.4 | 4624.8 | 4512.4 | 4682.3 | 5374.2 | 6849.2 | 7140.2 |
| 37.5° | 5831.3 | 5792.6 | 5820.1 | 5427.9 | 5133.1 | 4969.5 | 5104.4 | 5805.1 | 7429.9 | 7859.6 |
| 40° | 6435.8 | 6405.8 | 6409.6 | 6034.9 | 5691.4 | 5507.8 | 5616.5 | 6345.9 | 8095.6 | 8715.1 |
| 42.5° | 7092.7 | 7070.2 | 6995.3 | 6663.1 | 6277.2 | 6106.1 | 6206.0 | 6970.3 | 8810.0 | 9689.3 |
| 45° | 7828.3 | 7814.6 | 7744.7 | 7363.7 | 6921.6 | 6729.3 | 6864.2 | 7659.7 | 9528.2 | 10606.0 |
| 47.5° | 8464.1 | 8475.3 | 8466.6 | 8145.6 | 7687.2 | 7405.0 | 7566.1 | 8379.1 | 10196.3 | 11467.8 |
| 50° | 8770.0 | 8828.7 | 8914.9 | 8815.0 | 8530.3 | 8243.0 | 8274.2 | 9073.5 | 10833.3 | 12275.8 |
| 52.5° | 8610.2 | 8721.3 | 8956.1 | 9116.0 | 9225.9 | 9166.0 | 9082.3 | 9763.0 | 11432.8 | 13005.2 |
| 55° | 8014.4 | 8170.6 | 8560.2 | 8946.2 | 9506.9 | 9942.8 | 10052.7 | 10527.3 | 12017.3 | 13647.2 |
| 57.5° | 6929.1 | 7182.6 | 7532.4 | 8312.9 | 9257.1 | 10318.7 | 11184.2 | 11587.7 | 12636.8 | 14332.8 |
| 60° | 5068.2 | 5407.9 | 5842.5 | 7004.1 | 8382.9 | 10117.7 | 12147.2 | 13216.3 | 13517.3 | 15220.8 |
| 62.5° | 3243.5 | 3453.3 | 3853.0 | 4947.0 | 6532.0 | 9087.3 | 12441.9 | 15252.0 | 15009.7 | 16677.1 |
| 65° | 2220.6 | 2355.5 | 2721.4 | 3335.9 | 4222.7 | 6764.3 | 11652.6 | 16778.2 | 17380.2 | 18985.1 |
| 67.5° | 1613.6 | 1716.0 | 2028.3 | 2566.6 | 2751.4 | 4002.8 | 9042.3 | 16708.3 | 19684.5 | 21363.1 |
| 70° | 1176.5 | 1248.9 | 1511.2 | 2028.3 | 2117.0 | 2226.9 | 5477.8 | 14202.9 | 19634.6 | 21995.1 |
| 72.5° | 871.8 | 921.7 | 1097.8 | 1573.7 | 1713.5 | 1503.7 | 2711.4 | 10322.5 | 16871.9 | 19894.3 |
| 75° | 630.7 | 668.2 | 798.1 | 1204.0 | 1371.3 | 1145.3 | 1352.6 | 6032.4 | 11768.8 | 13994.4 |
| 77.5° | 482.1 | 510.8 | 595.7 | 881.8 | 1097.8 | 859.3 | 839.3 | 2775.1 | 5580.3 | 5607.7 |
| 80° | 387.2 | 405.9 | 452.1 | 620.7 | 841.8 | 643.2 | 547.0 | 1120.3 | 1763.5 | 1492.5 |
| 82.5° | 284.8 | 316.0 | 382.2 | 435.9 | 602.0 | 443.4 | 333.5 | 565.8 | 670.7 | 577.0 |
| 85° | 162.4 | 183.6 | 231.1 | 312.2 | 384.7 | 271.0 | 191.1 | 251.0 | 312.2 | 256.0 |
| 87.5° | 57.5 | 74.9 | 81.2 | 122.4 | 167.4 | 112.4 | 73.7 | 72.4 | 102.4 | 76.2 |
| 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° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3450.8 | 0° | 3450.8 | 3450.8 | 3450.8 | 3450.8 | 3450.8 | 3450.8 | 3450.8 | 3450.8 | 3450.8 | 3450.8 |
| 3488.3 | 2.5° | 3475.8 | 3469.6 | 3444.6 | 3410.9 | 3375.9 | 3342.2 | 3330.9 | 3307.2 | 3291.0 | 3282.2 |
| 3569.5 | 5° | 3545.7 | 3525.8 | 3467.1 | 3392.1 | 3313.4 | 3228.5 | 3168.6 | 3113.6 | 3073.6 | 3036.2 |
| 3680.6 | 7.5° | 3645.7 | 3610.7 | 3509.5 | 3378.4 | 3238.5 | 3097.4 | 2992.5 | 2912.5 | 2858.8 | 2823.9 |
| 3810.5 | 10° | 3761.8 | 3708.1 | 3553.2 | 3357.1 | 3141.1 | 2938.8 | 2815.1 | 2746.4 | 2712.7 | 2694.0 |
| 3959.1 | 12.5° | 3895.4 | 3819.3 | 3598.2 | 3308.4 | 2992.5 | 2761.4 | 2676.5 | 2656.5 | 2657.7 | 2659.0 |
| 4146.5 | 15° | 4060.3 | 3954.1 | 3634.4 | 3202.3 | 2798.9 | 2625.3 | 2610.3 | 2642.8 | 2676.5 | 2692.7 |
| 4358.8 | 17.5° | 4246.4 | 4096.5 | 3640.7 | 3027.4 | 2609.0 | 2537.8 | 2585.3 | 2655.2 | 2706.5 | 2728.9 |
| 4596.1 | 20° | 4446.2 | 4241.4 | 3595.7 | 2780.1 | 2452.9 | 2466.7 | 2551.6 | 2641.5 | 2697.7 | 2726.4 |
| 4867.1 | 22.5° | 4674.8 | 4396.3 | 3488.3 | 2520.4 | 2325.5 | 2389.2 | 2489.1 | 2576.6 | 2635.3 | 2664.0 |
| 5185.6 | 25° | 4935.8 | 4569.9 | 3319.7 | 2301.8 | 2215.6 | 2301.8 | 2401.7 | 2474.1 | 2521.6 | 2547.8 |
| 5541.5 | 27.5° | 5225.6 | 4751.0 | 3094.9 | 2128.2 | 2119.4 | 2211.9 | 2294.3 | 2350.5 | 2375.5 | 2395.5 |
| 5920.0 | 30° | 5516.6 | 4915.8 | 2822.6 | 1997.1 | 2035.8 | 2123.2 | 2181.9 | 2206.9 | 2214.4 | 2218.1 |
| 6342.1 | 32.5° | 5831.3 | 5058.2 | 2536.6 | 1888.4 | 1955.8 | 2037.0 | 2072.0 | 2083.2 | 2048.3 | 2024.5 |
| 6854.2 | 35° | 6212.2 | 5210.6 | 2256.8 | 1802.2 | 1877.2 | 1947.1 | 1958.3 | 1948.3 | 1907.1 | 1858.4 |
| 7496.1 | 37.5° | 6683.1 | 5400.4 | 2033.3 | 1741.0 | 1803.5 | 1849.7 | 1835.9 | 1833.4 | 1837.2 | 1779.7 |
| 8268.0 | 40° | 7260.1 | 5647.7 | 1869.7 | 1693.6 | 1743.5 | 1753.5 | 1714.8 | 1736.0 | 1754.8 | 1667.3 |
| 9114.8 | 42.5° | 7900.8 | 5946.2 | 1766.0 | 1661.1 | 1693.6 | 1669.8 | 1609.9 | 1633.6 | 1631.1 | 1516.2 |
| 9965.3 | 45° | 8554.0 | 6270.9 | 1729.8 | 1637.4 | 1647.4 | 1599.9 | 1533.7 | 1539.9 | 1487.5 | 1383.8 |
| 10780.8 | 47.5° | 9203.4 | 6619.4 | 1752.3 | 1617.4 | 1589.9 | 1536.2 | 1485.0 | 1457.5 | 1380.1 | 1302.6 |
| 11562.7 | 50° | 9840.4 | 6985.3 | 1834.7 | 1577.4 | 1511.2 | 1480.0 | 1442.5 | 1393.8 | 1311.4 | 1245.2 |
| 12302.0 | 52.5° | 10431.1 | 7353.8 | 1927.1 | 1511.2 | 1412.6 | 1431.3 | 1407.6 | 1351.4 | 1270.2 | 1202.7 |
| 13001.5 | 55° | 10990.7 | 7722.2 | 1963.3 | 1420.0 | 1320.1 | 1388.8 | 1375.1 | 1271.4 | 1174.0 | 1119.0 |
| 13733.3 | 57.5° | 11600.1 | 8165.6 | 1923.4 | 1303.9 | 1245.2 | 1340.1 | 1287.7 | 1172.8 | 1116.6 | 1075.3 |
| 14686.3 | 60° | 12444.4 | 8861.2 | 1837.2 | 1160.3 | 1174.0 | 1267.7 | 1177.7 | 1130.3 | 1069.1 | 1022.9 |
| 16115.1 | 62.5° | 13847.0 | 10158.9 | 1698.6 | 1017.9 | 1090.3 | 1160.3 | 1125.3 | 1077.8 | 1015.4 | 970.4 |
| 18558.0 | 65° | 15920.2 | 11962.3 | 1437.5 | 906.7 | 996.7 | 1055.4 | 1069.1 | 1021.6 | 956.7 | 909.2 |
| 20698.7 | 67.5° | 17668.7 | 13093.9 | 1087.8 | 814.3 | 900.5 | 970.4 | 1009.1 | 962.9 | 894.2 | 848.0 |
| 21199.5 | 70° | 17572.6 | 12272.1 | 830.5 | 723.1 | 815.6 | 886.7 | 936.7 | 900.5 | 826.8 | 783.1 |
| 19256.1 | 72.5° | 15608.0 | 10266.3 | 671.9 | 630.7 | 729.4 | 799.3 | 859.3 | 831.8 | 756.9 | 714.4 |
| 14106.8 | 75° | 11466.5 | 7287.6 | 537.0 | 537.0 | 622.0 | 708.1 | 774.3 | 756.9 | 688.2 | 658.2 |
| 5922.5 | 77.5° | 4833.4 | 3057.4 | 420.9 | 445.9 | 517.1 | 608.2 | 690.7 | 696.9 | 637.0 | 674.4 |
| 1566.2 | 80° | 1285.2 | 843.0 | 321.0 | 351.0 | 405.9 | 502.1 | 600.7 | 598.2 | 533.3 | 498.3 |
| 582.0 | 82.5° | 489.6 | 332.2 | 228.6 | 247.3 | 293.5 | 384.7 | 475.8 | 490.8 | 425.9 | 368.4 |
| 228.6 | 85° | 188.6 | 142.4 | 141.1 | 148.6 | 171.1 | 254.8 | 359.7 | 372.2 | 321.0 | 272.3 |
| 63.7 | 87.5° | 48.7 | 42.5 | 52.5 | 50.0 | 78.7 | 136.1 | 206.1 | 213.6 | 196.1 | 113.7 |
| 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> |
|-------------|
| 3450.8 |
| 3292.2 |
| 3051.2 |
| 2831.3 |
| 2699.0 |
| 2661.5 |
| 2691.5 |
| 2733.9 |
| 2733.9 |
| 2671.5 |
| 2555.3 |
| 2403.0 |
| 2226.9 |
| 2032.0 |
| 1860.9 |
| 1783.5 |
| 1669.8 |
| 1515.0 |
| 1387.6 |
| 1302.6 |
| 1240.2 |
| 1204.0 |
| 1114.1 |
| 1071.6 |
| 1020.4 |
| 970.4 |
| 911.7 |
| 849.3 |
| 786.8 |
| 714.4 |
| 649.4 |
| 612.0 |
| 463.4 |
| 368.4 |
| 281.0 |
| 162.4 |
| 0.0 |

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