

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: P944465

Luminaire Tested: **GALN-SB9B-935-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944465
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-SB9B-935-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 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: 35353 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

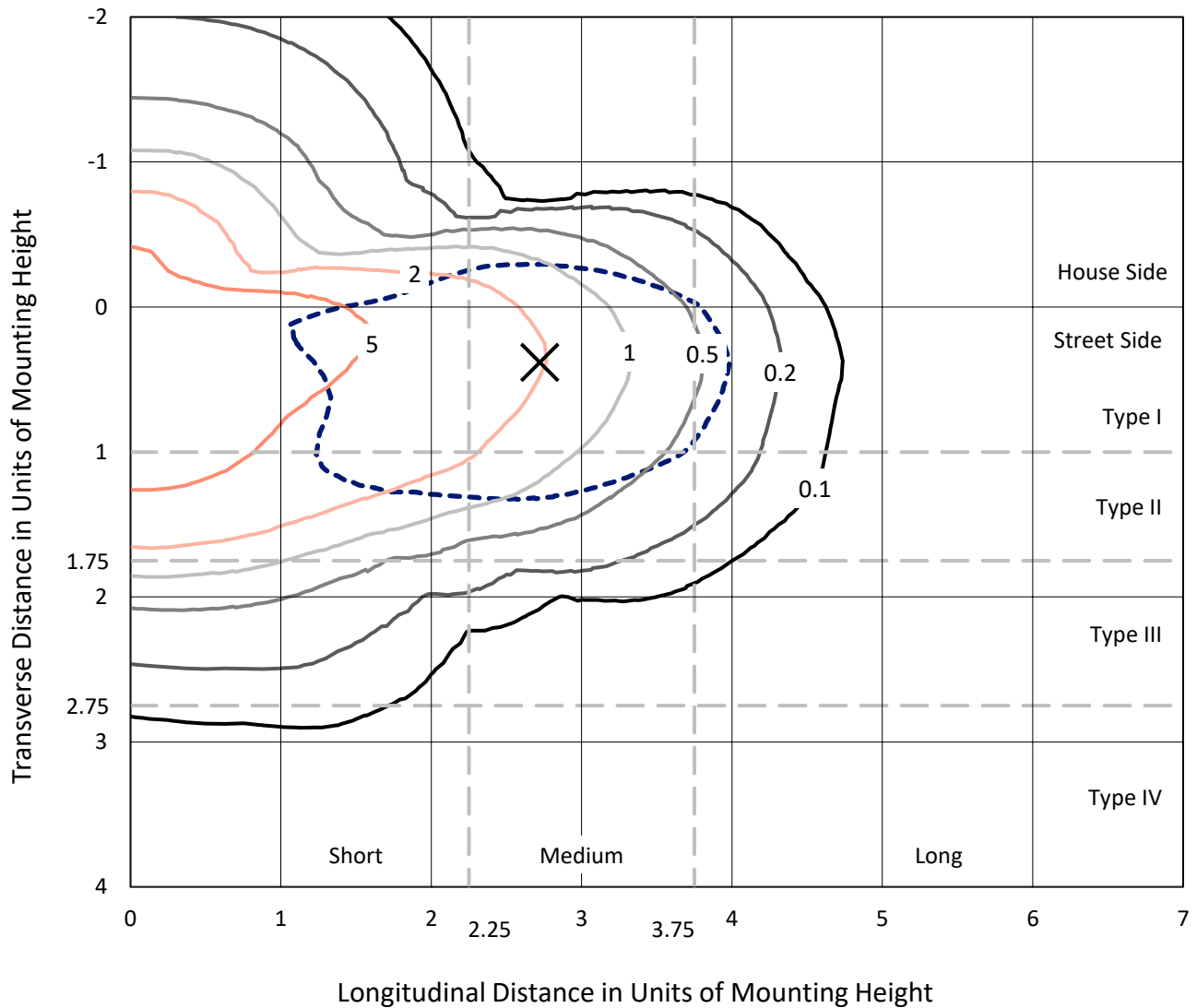
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

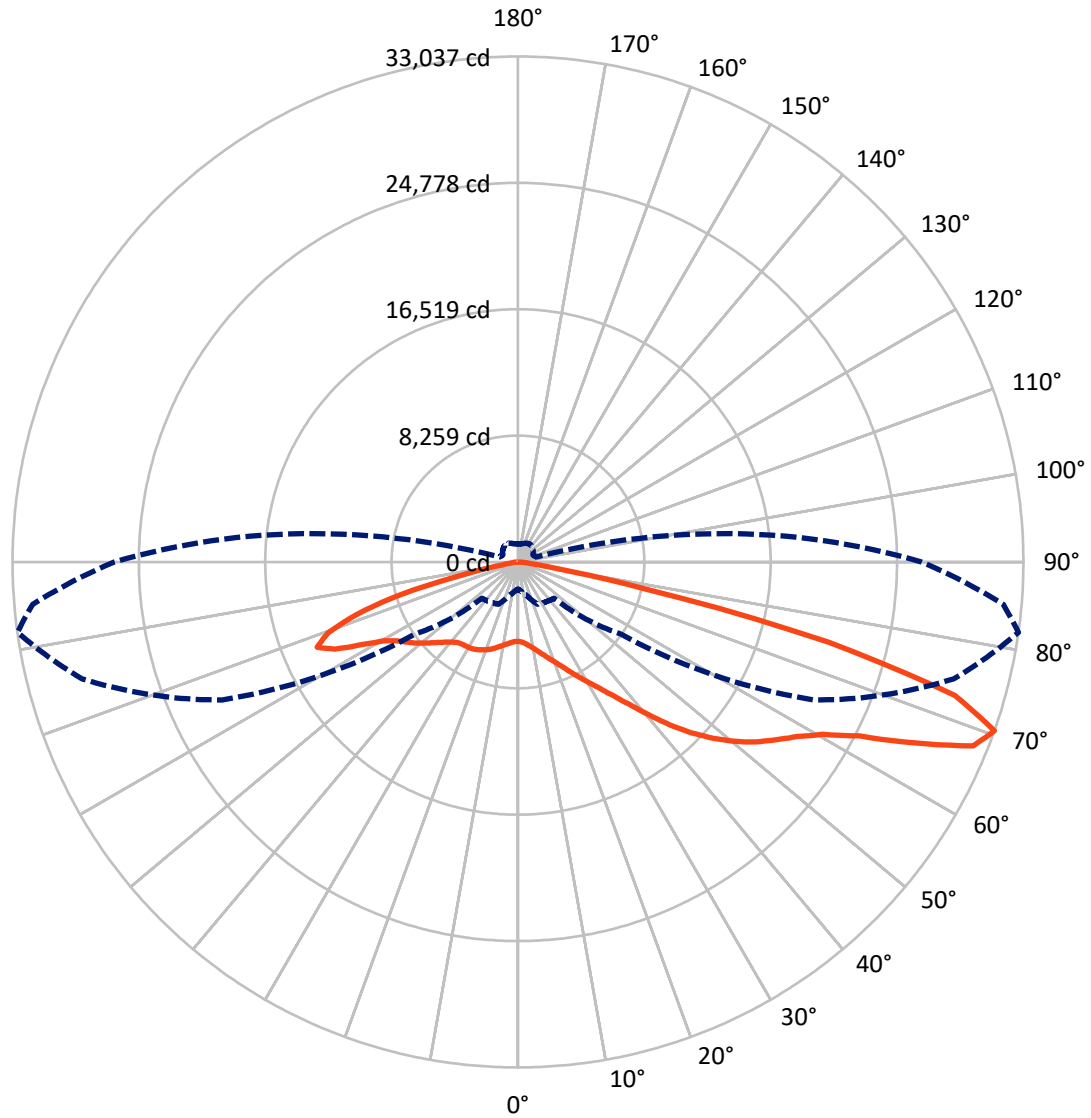
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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 | 8715.4 | 0.0 | 8715.4 |
| | % Fixture | 24.7 | 0.0 | 24.7 |
| Street Side | Lumens | 26637.6 | 0.0 | 26637.6 |
| | % Fixture | 75.3 | 0.0 | 75.3 |
| Total | Lumens | 35353.0 | 0.0 | 35353.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 489.4 | 1.4 |
| 10°-20° | 1406.0 | 4.0 |
| 20°-30° | 2352.2 | 6.7 |
| 30°-40° | 3674.7 | 10.4 |
| 40°-50° | 5852.3 | 16.6 |
| 50°-60° | 8144.2 | 23.0 |
| 60°-70° | 8519.2 | 24.1 |
| 70°-80° | 4452.6 | 12.6 |
| 80°-90° | 462.4 | 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° | 35353.0 | 100.0 |
| 0°-180° | 35353.0 | 100.0 |

Coefficient of Utilization



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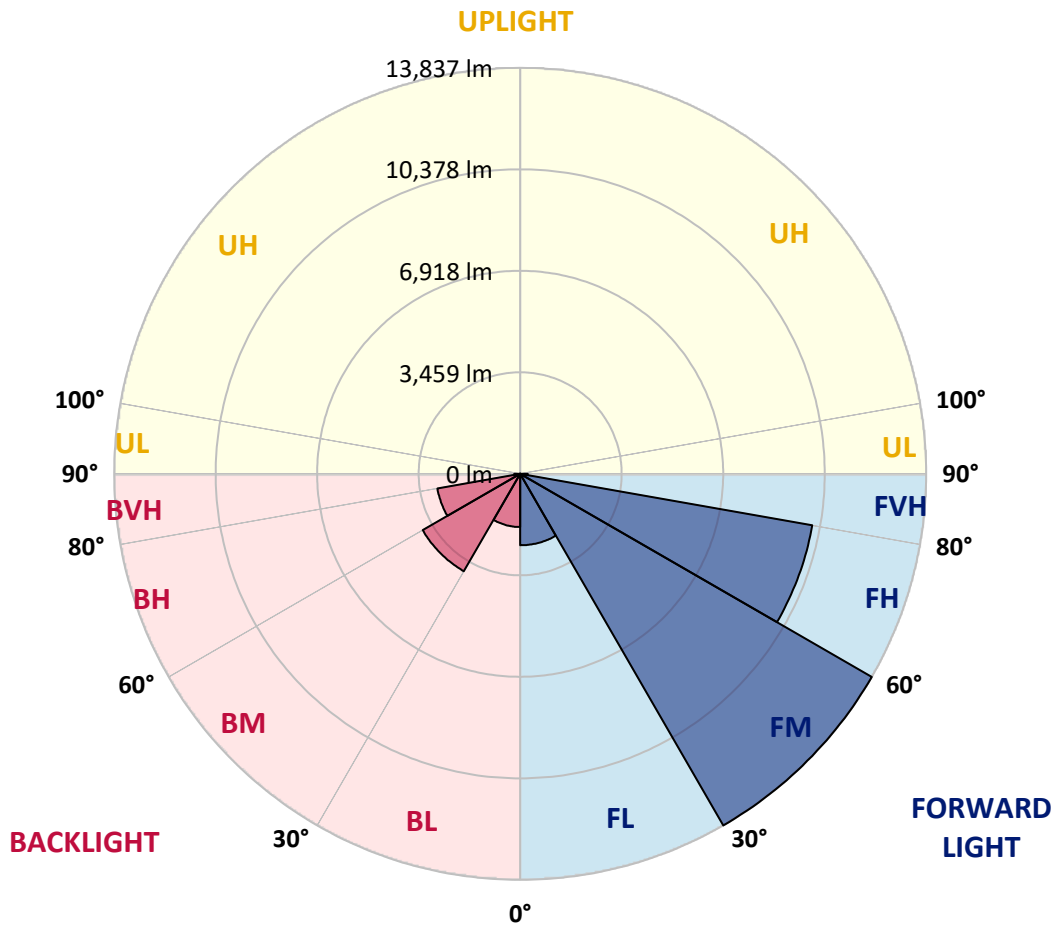
CATALOG NUMBER: GALN-SB9B-935-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2434.4 | 6.9 | | | |
| FM (30°-60°) | 13836.8 | 39.1 | | | |
| FH (60°-80°) | 10107.5 | 28.6 | | | G4/12000 |
| FVH (80°-90°) | 258.8 | 0.7 | | | G3/500 |
| BL (0°-30°) | 1813.1 | 5.1 | B3/2500 | | |
| BM (30°-60°) | 3834.4 | 10.8 | B3/5000 | | |
| BH (60°-80°) | 2864.3 | 8.1 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 203.5 | 0.6 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 82° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5183.2 | 5183.2 | 5183.2 | 5183.2 | 5183.2 | 5183.2 | 5183.2 | 5183.2 | 5183.2 | 5183.2 |
| 2.5° | 5307.0 | 5337.0 | 5327.6 | 5318.3 | 5318.3 | 5305.1 | 5303.3 | 5284.5 | 5269.5 | 5245.1 |
| 5° | 5374.5 | 5406.4 | 5402.7 | 5410.2 | 5434.6 | 5440.2 | 5445.8 | 5434.6 | 5404.6 | 5374.5 |
| 7.5° | 5314.5 | 5350.1 | 5361.4 | 5406.4 | 5481.5 | 5549.0 | 5599.6 | 5620.3 | 5592.1 | 5549.0 |
| 10° | 5111.9 | 5151.3 | 5190.7 | 5297.6 | 5430.8 | 5590.3 | 5725.3 | 5806.0 | 5800.4 | 5759.1 |
| 12.5° | 4701.1 | 4742.3 | 4826.8 | 5035.0 | 5278.9 | 5560.3 | 5811.6 | 5980.5 | 6038.6 | 6008.6 |
| 15° | 4372.8 | 4408.4 | 4472.2 | 4686.1 | 5003.1 | 5430.8 | 5843.5 | 6171.8 | 6320.0 | 6303.1 |
| 17.5° | 4363.4 | 4378.4 | 4417.8 | 4519.1 | 4763.0 | 5228.2 | 5809.8 | 6359.4 | 6642.7 | 6640.8 |
| 20° | 4528.5 | 4534.1 | 4556.6 | 4577.3 | 4716.1 | 5074.4 | 5723.5 | 6515.1 | 7004.7 | 7004.7 |
| 22.5° | 4757.4 | 4753.6 | 4776.1 | 4757.4 | 4824.9 | 5061.3 | 5669.1 | 6652.0 | 7408.0 | 7438.1 |
| 25° | 5100.7 | 5081.9 | 5076.3 | 5033.1 | 5046.2 | 5183.2 | 5729.1 | 6807.7 | 7886.4 | 7948.3 |
| 27.5° | 5558.4 | 5528.4 | 5507.7 | 5408.3 | 5374.5 | 5434.6 | 5912.9 | 6995.3 | 8419.2 | 8526.1 |
| 30° | 6154.9 | 6100.5 | 6070.5 | 5897.9 | 5776.0 | 5785.4 | 6190.6 | 7244.8 | 8976.3 | 9148.9 |
| 32.5° | 6969.1 | 6884.7 | 6804.0 | 6520.7 | 6297.5 | 6224.3 | 6548.9 | 7590.0 | 9580.4 | 9856.1 |
| 35° | 7880.8 | 7813.2 | 7727.0 | 7289.9 | 6946.6 | 6777.7 | 7032.9 | 8072.1 | 10287.6 | 10724.7 |
| 37.5° | 8758.7 | 8700.6 | 8741.8 | 8152.8 | 7710.1 | 7464.3 | 7666.9 | 8719.3 | 11159.9 | 11805.2 |
| 40° | 9666.7 | 9621.6 | 9627.3 | 9064.5 | 8548.6 | 8272.8 | 8436.1 | 9531.6 | 12159.8 | 13090.2 |
| 42.5° | 10653.4 | 10619.6 | 10507.1 | 10008.1 | 9428.4 | 9171.4 | 9321.5 | 10469.6 | 13232.8 | 14553.5 |
| 45° | 11758.3 | 11737.7 | 11632.6 | 11060.5 | 10396.4 | 10107.5 | 10310.1 | 11505.1 | 14311.5 | 15930.4 |
| 47.5° | 12713.2 | 12730.1 | 12716.9 | 12234.8 | 11546.3 | 11122.4 | 11364.4 | 12585.6 | 15315.1 | 17224.8 |
| 50° | 13172.8 | 13260.9 | 13390.4 | 13240.3 | 12812.6 | 12381.1 | 12428.0 | 13628.6 | 16271.8 | 18438.5 |
| 52.5° | 12932.7 | 13099.6 | 13452.3 | 13692.4 | 13857.5 | 13767.4 | 13641.8 | 14664.1 | 17172.3 | 19534.0 |
| 55° | 12037.8 | 12272.3 | 12857.6 | 13437.3 | 14279.6 | 14934.3 | 15099.4 | 15812.2 | 18050.2 | 20498.3 |
| 57.5° | 10407.7 | 10788.5 | 11313.7 | 12486.2 | 13904.4 | 15498.9 | 16798.9 | 17404.9 | 18980.6 | 21528.2 |
| 60° | 7612.5 | 8122.8 | 8775.6 | 10520.2 | 12591.2 | 15196.9 | 18245.3 | 19851.1 | 20303.2 | 22861.9 |
| 62.5° | 4871.8 | 5186.9 | 5787.2 | 7430.6 | 9811.1 | 13649.3 | 18688.0 | 22908.8 | 22544.9 | 25049.3 |
| 65° | 3335.4 | 3538.0 | 4087.6 | 5010.6 | 6342.5 | 10160.0 | 17502.4 | 25201.2 | 26105.4 | 28516.0 |
| 67.5° | 2423.7 | 2577.5 | 3046.5 | 3855.0 | 4132.7 | 6012.4 | 13581.7 | 25096.2 | 29566.5 | 32087.8 |
| 70° | 1767.1 | 1875.9 | 2269.9 | 3046.5 | 3179.7 | 3344.8 | 8227.8 | 21333.1 | 29491.5 | 33037.0 |
| 72.5° | 1309.4 | 1384.4 | 1648.9 | 2363.7 | 2573.8 | 2258.6 | 4072.6 | 15504.6 | 25341.9 | 29881.7 |
| 75° | 947.3 | 1003.6 | 1198.7 | 1808.4 | 2059.8 | 1720.2 | 2031.6 | 9060.7 | 17676.9 | 21019.8 |
| 77.5° | 724.1 | 767.3 | 894.8 | 1324.4 | 1648.9 | 1290.6 | 1260.6 | 4168.3 | 8381.7 | 8422.9 |
| 80° | 581.5 | 609.7 | 679.1 | 932.3 | 1264.4 | 966.1 | 821.7 | 1682.7 | 2648.8 | 2241.7 |
| 82.5° | 427.7 | 474.6 | 574.0 | 654.7 | 904.2 | 666.0 | 500.9 | 849.8 | 1007.4 | 866.7 |
| 85° | 243.9 | 275.8 | 347.0 | 469.0 | 577.8 | 407.1 | 287.0 | 377.1 | 469.0 | 384.6 |
| 87.5° | 86.3 | 112.6 | 121.9 | 183.8 | 251.4 | 168.8 | 110.7 | 108.8 | 153.8 | 114.4 |
| 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° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5183.2 | 0° | 5183.2 | 5183.2 | 5183.2 | 5183.2 | 5183.2 | 5183.2 | 5183.2 | 5183.2 | 5183.2 | 5183.2 |
| 5239.5 | 2.5° | 5220.7 | 5211.3 | 5173.8 | 5123.2 | 5070.6 | 5020.0 | 5003.1 | 4967.5 | 4943.1 | 4929.9 |
| 5361.4 | 5° | 5325.8 | 5295.7 | 5207.6 | 5095.0 | 4976.8 | 4849.3 | 4759.2 | 4676.7 | 4616.7 | 4560.4 |
| 5528.4 | 7.5° | 5475.8 | 5423.3 | 5271.4 | 5074.4 | 4864.3 | 4652.3 | 4494.7 | 4374.7 | 4294.0 | 4241.5 |
| 5723.5 | 10° | 5650.3 | 5569.6 | 5337.0 | 5042.5 | 4718.0 | 4414.1 | 4228.3 | 4125.2 | 4074.5 | 4046.4 |
| 5946.7 | 12.5° | 5851.0 | 5736.6 | 5404.6 | 4969.3 | 4494.7 | 4147.7 | 4020.1 | 3990.1 | 3992.0 | 3993.9 |
| 6228.1 | 15° | 6098.6 | 5939.2 | 5459.0 | 4809.9 | 4204.0 | 3943.2 | 3920.7 | 3969.5 | 4020.1 | 4044.5 |
| 6547.0 | 17.5° | 6378.2 | 6153.0 | 5468.3 | 4547.3 | 3918.8 | 3811.9 | 3883.2 | 3988.2 | 4065.1 | 4098.9 |
| 6903.4 | 20° | 6678.3 | 6370.7 | 5400.8 | 4175.8 | 3684.3 | 3705.0 | 3832.5 | 3967.6 | 4052.0 | 4095.2 |
| 7310.5 | 22.5° | 7021.6 | 6603.3 | 5239.5 | 3785.6 | 3493.0 | 3588.7 | 3738.7 | 3870.0 | 3958.2 | 4001.4 |
| 7788.9 | 25° | 7413.7 | 6864.0 | 4986.2 | 3457.3 | 3327.9 | 3457.3 | 3607.4 | 3716.2 | 3787.5 | 3826.9 |
| 8323.5 | 27.5° | 7848.9 | 7136.0 | 4648.6 | 3196.6 | 3183.5 | 3322.3 | 3446.1 | 3530.5 | 3568.0 | 3598.0 |
| 8891.9 | 30° | 8286.0 | 7383.7 | 4239.6 | 2999.6 | 3057.8 | 3189.1 | 3277.2 | 3314.8 | 3326.0 | 3331.6 |
| 9526.0 | 32.5° | 8758.7 | 7597.5 | 3810.0 | 2836.4 | 2937.7 | 3059.6 | 3112.2 | 3129.0 | 3076.5 | 3040.9 |
| 10295.1 | 35° | 9330.9 | 7826.4 | 3389.8 | 2707.0 | 2819.5 | 2924.6 | 2941.5 | 2926.4 | 2864.5 | 2791.4 |
| 11259.3 | 37.5° | 10038.1 | 8111.5 | 3054.0 | 2615.0 | 2708.8 | 2778.3 | 2757.6 | 2753.9 | 2759.5 | 2673.2 |
| 12418.7 | 40° | 10904.8 | 8483.0 | 2808.3 | 2543.8 | 2618.8 | 2633.8 | 2575.7 | 2607.5 | 2635.7 | 2504.4 |
| 13690.5 | 42.5° | 11867.1 | 8931.3 | 2652.6 | 2495.0 | 2543.8 | 2508.1 | 2418.1 | 2453.7 | 2450.0 | 2277.4 |
| 14968.0 | 45° | 12848.2 | 9419.0 | 2598.2 | 2459.3 | 2474.4 | 2403.1 | 2303.6 | 2313.0 | 2234.2 | 2078.5 |
| 16193.0 | 47.5° | 13823.7 | 9942.4 | 2631.9 | 2429.3 | 2388.1 | 2307.4 | 2230.5 | 2189.2 | 2072.9 | 1956.6 |
| 17367.4 | 50° | 14780.4 | 10492.1 | 2755.7 | 2369.3 | 2269.9 | 2223.0 | 2166.7 | 2093.5 | 1969.7 | 1870.3 |
| 18477.9 | 52.5° | 15667.8 | 11045.5 | 2894.6 | 2269.9 | 2121.7 | 2149.8 | 2114.2 | 2029.8 | 1907.8 | 1806.5 |
| 19528.4 | 55° | 16508.2 | 11598.9 | 2949.0 | 2132.9 | 1982.9 | 2086.0 | 2065.4 | 1909.7 | 1763.4 | 1680.8 |
| 20627.7 | 57.5° | 17423.6 | 12264.8 | 2888.9 | 1958.5 | 1870.3 | 2012.9 | 1934.1 | 1761.5 | 1677.1 | 1615.2 |
| 22059.0 | 60° | 18691.8 | 13309.7 | 2759.5 | 1742.7 | 1763.4 | 1904.1 | 1769.0 | 1697.7 | 1605.8 | 1536.4 |
| 24205.1 | 62.5° | 20798.4 | 15258.8 | 2551.3 | 1528.9 | 1637.7 | 1742.7 | 1690.2 | 1618.9 | 1525.1 | 1457.6 |
| 27874.4 | 65° | 23912.5 | 17967.6 | 2159.2 | 1361.9 | 1497.0 | 1585.2 | 1605.8 | 1534.5 | 1437.0 | 1365.7 |
| 31089.8 | 67.5° | 26538.8 | 19667.2 | 1633.9 | 1223.1 | 1352.5 | 1457.6 | 1515.8 | 1446.3 | 1343.2 | 1273.8 |
| 31842.0 | 70° | 26394.3 | 18432.9 | 1247.5 | 1086.2 | 1225.0 | 1331.9 | 1406.9 | 1352.5 | 1241.9 | 1176.2 |
| 28923.1 | 72.5° | 23443.5 | 15420.1 | 1009.2 | 947.3 | 1095.5 | 1200.6 | 1290.6 | 1249.4 | 1136.8 | 1073.0 |
| 21188.6 | 75° | 17222.9 | 10946.0 | 806.6 | 806.6 | 934.2 | 1063.7 | 1163.1 | 1136.8 | 1033.6 | 988.6 |
| 8895.7 | 77.5° | 7259.8 | 4592.3 | 632.2 | 669.7 | 776.6 | 913.6 | 1037.4 | 1046.8 | 956.7 | 1013.0 |
| 2352.4 | 80° | 1930.3 | 1266.3 | 482.1 | 527.1 | 609.7 | 754.1 | 902.3 | 898.6 | 801.0 | 748.5 |
| 874.2 | 82.5° | 735.4 | 499.0 | 343.3 | 371.4 | 440.8 | 577.8 | 714.7 | 737.2 | 639.7 | 553.4 |
| 343.3 | 85° | 283.3 | 213.9 | 212.0 | 223.2 | 257.0 | 382.7 | 540.3 | 559.0 | 482.1 | 409.0 |
| 95.7 | 87.5° | 73.2 | 63.8 | 78.8 | 75.0 | 118.2 | 204.5 | 309.5 | 320.8 | 294.5 | 170.7 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END O

| <u>180°</u> |
|---------------|
| 5183.2 |
| 4944.9 |
| 4582.9 |
| 4252.7 |
| 4053.9 |
| 3997.6 |
| 4042.6 |
| 4106.4 |
| 4106.4 |
| 4012.6 |
| 3838.2 |
| 3609.3 |
| 3344.8 |
| 3052.1 |
| 2795.1 |
| 2678.8 |
| 2508.1 |
| 2275.5 |
| 2084.2 |
| 1956.6 |
| 1862.8 |
| 1808.4 |
| 1673.3 |
| 1609.5 |
| 1532.6 |
| 1457.6 |
| 1369.4 |
| 1275.6 |
| <i>1181.8</i> |
| 1073.0 |
| 975.5 |
| 919.2 |
| 696.0 |
| 553.4 |
| 422.1 |
| 243.9 |
| 0.0 |

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