

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: P950117

Luminaire Tested: **GALN-SB4C-930-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950117
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-SB4C-930-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21160 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

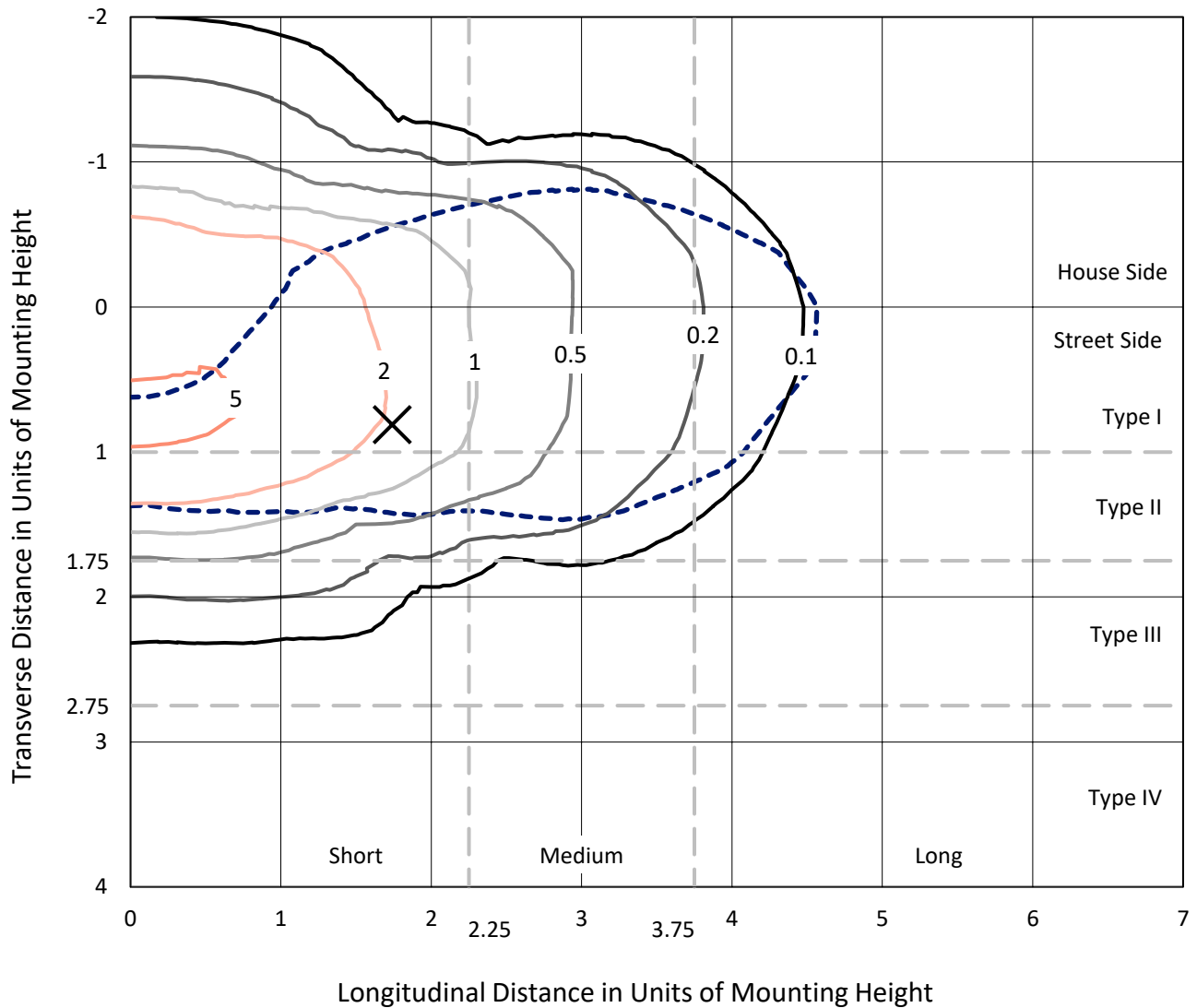
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

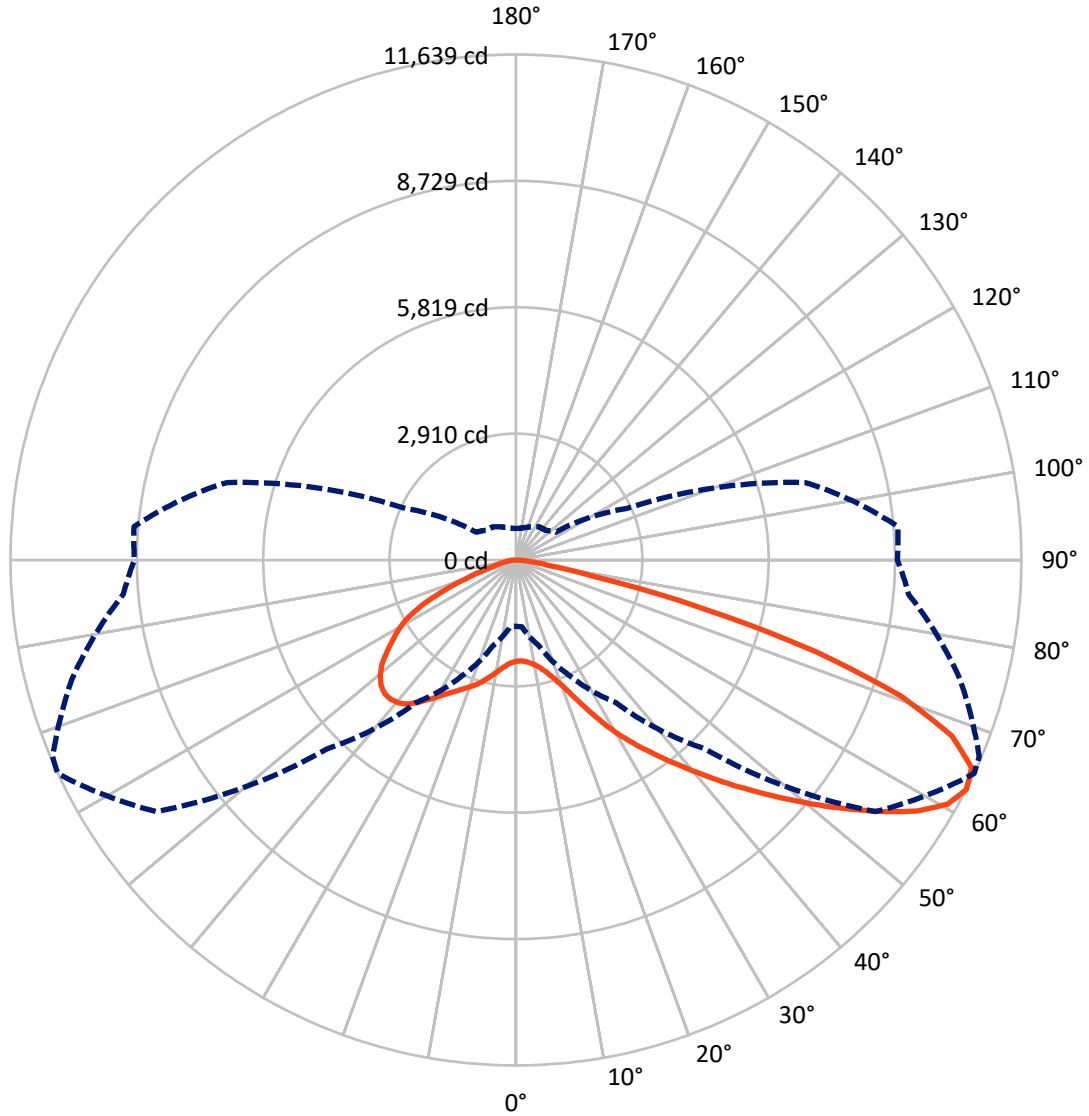
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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 | 6677.2 | 0.0 | 6677.2 |
| | % Fixture | 31.6 | 0.0 | 31.6 |
| Street Side | Lumens | 14482.8 | 0.0 | 14482.8 |
| | % Fixture | 68.4 | 0.0 | 68.4 |
| Total | Lumens | 21160.0 | 0.0 | 21160.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 232.5 | 1.1 |
| 10°-20° | 788.3 | 3.7 |
| 20°-30° | 1598.4 | 7.6 |
| 30°-40° | 2766.1 | 13.1 |
| 40°-50° | 4185.9 | 19.8 |
| 50°-60° | 4907.7 | 23.2 |
| 60°-70° | 4114.5 | 19.4 |
| 70°-80° | 2271.5 | 10.7 |
| 80°-90° | 295.1 | 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° | 21160.0 | 100.0 |
| 0°-180° | 21160.0 | 100.0 |



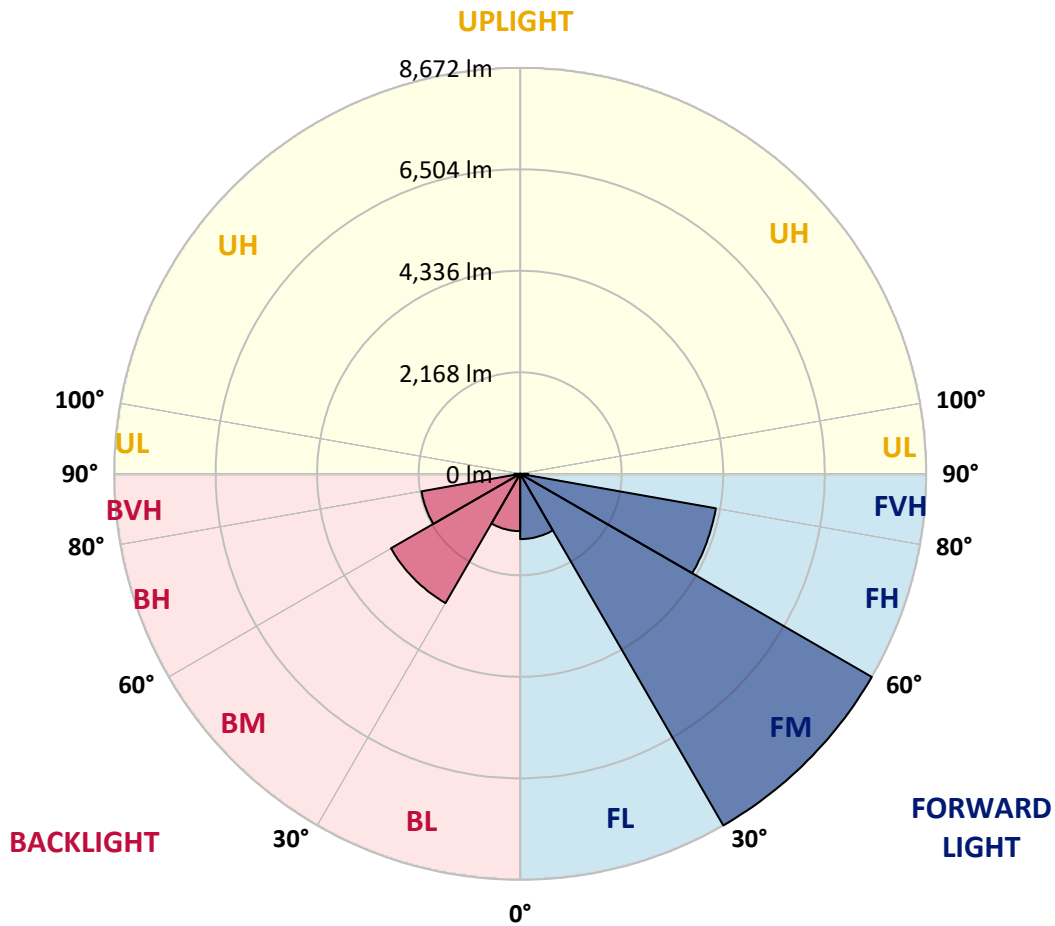
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1394.7 | 6.6 | | | |
| FM (30°-60°) | 8672.1 | 41.0 | | | |
| FH (60°-80°) | 4244.1 | 20.1 | | | G2/5000 |
| FVH (80°-90°) | 172.0 | 0.8 | | | G2/225 |
| BL (0°-30°) | 1224.5 | 5.8 | B3/2500 | | |
| BM (30°-60°) | 3187.6 | 15.1 | B3/5000 | | |
| BH (60°-80°) | 2142.0 | 10.1 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 123.1 | 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 Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0° | 2331.7 | 2331.7 | 2331.7 | 2331.7 | 2331.7 | 2331.7 | 2331.7 | 2331.7 | 2331.7 | 2331.7 |
| 2.5° | 2316.4 | 2309.8 | 2315.3 | 2315.3 | 2317.5 | 2316.4 | 2324.1 | 2326.3 | 2329.5 | 2336.1 |
| 5° | 2293.3 | 2292.2 | 2302.1 | 2310.9 | 2319.7 | 2327.3 | 2337.2 | 2351.5 | 2353.7 | 2361.4 |
| 7.5° | 2285.6 | 2279.0 | 2294.4 | 2305.4 | 2326.3 | 2344.9 | 2371.3 | 2395.4 | 2405.3 | 2408.6 |
| 10° | 2344.9 | 2333.9 | 2348.2 | 2354.8 | 2372.4 | 2391.0 | 2421.8 | 2460.2 | 2471.2 | 2484.3 |
| 12.5° | 2445.9 | 2433.8 | 2454.7 | 2464.6 | 2481.0 | 2497.5 | 2518.4 | 2555.7 | 2561.2 | 2585.3 |
| 15° | 2584.2 | 2570.0 | 2583.1 | 2595.2 | 2622.7 | 2638.0 | 2658.9 | 2695.1 | 2695.1 | 2713.8 |
| 17.5° | 2772.0 | 2753.3 | 2763.2 | 2767.6 | 2785.1 | 2808.2 | 2843.3 | 2875.2 | 2891.6 | 2885.0 |
| 20° | 3051.9 | 3028.8 | 3028.8 | 3006.9 | 3000.3 | 3019.0 | 3065.1 | 3109.0 | 3126.6 | 3092.5 |
| 22.5° | 3472.4 | 3439.4 | 3420.8 | 3346.1 | 3316.5 | 3318.7 | 3364.8 | 3418.6 | 3432.8 | 3372.5 |
| 25° | 4007.0 | 3955.4 | 3930.1 | 3820.4 | 3753.4 | 3695.2 | 3731.4 | 3800.6 | 3820.4 | 3745.7 |
| 27.5° | 4541.6 | 4544.9 | 4520.8 | 4389.0 | 4278.2 | 4171.7 | 4153.0 | 4225.5 | 4246.3 | 4161.8 |
| 30° | 5291.4 | 5213.5 | 5167.4 | 5009.3 | 4851.2 | 4701.9 | 4625.1 | 4654.7 | 4660.2 | 4559.2 |
| 32.5° | 5938.0 | 5918.3 | 5819.5 | 5681.1 | 5478.1 | 5244.2 | 5115.8 | 5068.6 | 5059.8 | 4916.0 |
| 35° | 6674.7 | 6663.7 | 6559.4 | 6394.7 | 6175.2 | 5850.2 | 5618.6 | 5483.5 | 5472.6 | 5270.6 |
| 37.5° | 7423.4 | 7423.4 | 7321.3 | 7141.2 | 6914.0 | 6507.8 | 6155.4 | 5941.3 | 5906.2 | 5642.7 |
| 40° | 8020.6 | 7984.3 | 8003.0 | 7927.3 | 7667.1 | 7235.6 | 6751.5 | 6440.8 | 6393.6 | 6077.5 |
| 42.5° | 8359.8 | 8347.7 | 8459.7 | 8544.2 | 8437.7 | 8093.0 | 7408.0 | 6982.0 | 6916.2 | 6556.1 |
| 45° | 8435.5 | 8422.4 | 8622.2 | 8931.8 | 9081.1 | 8939.4 | 8121.6 | 7551.8 | 7471.7 | 7056.7 |
| 47.5° | 8261.0 | 8234.6 | 8527.8 | 9016.3 | 9494.9 | 9744.1 | 8894.4 | 8169.9 | 8053.5 | 7544.1 |
| 50° | 7736.2 | 7711.0 | 8154.5 | 8803.3 | 9634.3 | 10290.8 | 9733.1 | 8825.3 | 8647.4 | 8066.7 |
| 52.5° | 6595.6 | 6607.7 | 7302.6 | 8194.0 | 9451.0 | 10631.2 | 10455.5 | 9515.8 | 9301.7 | 8601.3 |
| 55° | 5137.7 | 5164.1 | 6018.2 | 6999.6 | 8717.7 | 10579.6 | 10948.4 | 10227.2 | 10014.2 | 9104.1 |
| 57.5° | 3678.7 | 3795.1 | 4595.4 | 5567.0 | 7309.2 | 9761.7 | 11056.0 | 10903.4 | 10697.0 | 9653.0 |
| 60° | 2384.4 | 2405.3 | 3228.6 | 4207.9 | 5565.9 | 8308.2 | 10837.5 | 11416.1 | 11254.7 | 10212.9 |
| 62.5° | 1528.1 | 1542.4 | 2044.1 | 2943.2 | 4005.9 | 6146.6 | 10102.0 | 11638.9 | 11589.5 | 10582.9 |
| 65° | 1123.1 | 1112.1 | 1373.4 | 1945.3 | 2698.4 | 3790.7 | 8673.8 | 11531.4 | 11629.1 | 10814.5 |
| 67.5° | 937.5 | 922.2 | 1050.6 | 1347.0 | 1988.1 | 2152.8 | 6417.8 | 10832.1 | 11189.9 | 10788.1 |
| 70° | 854.1 | 840.9 | 918.9 | 1000.1 | 1551.2 | 1441.4 | 3235.2 | 9417.0 | 9968.1 | 10488.4 |
| 72.5° | 723.5 | 700.4 | 806.9 | 888.1 | 1206.5 | 1105.5 | 1337.1 | 7233.4 | 7905.3 | 9527.9 |
| 75° | 561.0 | 545.6 | 636.7 | 781.6 | 906.8 | 862.9 | 845.3 | 4392.3 | 5125.7 | 7368.5 |
| 77.5° | 444.6 | 423.8 | 507.2 | 609.3 | 815.7 | 651.0 | 615.9 | 1891.5 | 2618.3 | 4704.1 |
| 80° | 334.8 | 316.2 | 385.3 | 481.9 | 626.8 | 490.7 | 398.5 | 771.8 | 986.9 | 2383.3 |
| 82.5° | 238.2 | 221.8 | 269.0 | 353.5 | 421.6 | 440.2 | 244.8 | 432.5 | 486.3 | 918.9 |
| 85° | 152.6 | 142.7 | 180.0 | 221.8 | 267.9 | 283.2 | 149.3 | 226.1 | 248.1 | 378.7 |
| 87.5° | 83.4 | 68.1 | 96.6 | 103.2 | 124.1 | 113.1 | 71.4 | 82.3 | 88.9 | 137.2 |
| 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° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2331.7 | 0° | 2331.7 | 2331.7 | 2331.7 | 2331.7 | 2331.7 | 2331.7 | 2331.7 | 2331.7 | 2331.7 | 2331.7 |
| 2336.1 | 2.5° | 2340.5 | 2343.8 | 2354.8 | 2358.1 | 2365.8 | 2375.7 | 2382.2 | 2388.8 | 2388.8 | 2395.4 |
| 2371.3 | 5° | 2372.4 | 2380.0 | 2403.1 | 2415.2 | 2434.9 | 2454.7 | 2466.8 | 2481.0 | 2489.8 | 2494.2 |
| 2427.2 | 7.5° | 2433.8 | 2445.9 | 2478.8 | 2499.7 | 2533.7 | 2561.2 | 2579.8 | 2599.6 | 2604.0 | 2616.1 |
| 2505.2 | 10° | 2517.3 | 2531.5 | 2568.9 | 2608.4 | 2649.0 | 2683.0 | 2700.6 | 2714.9 | 2720.4 | 2722.6 |
| 2605.1 | 12.5° | 2612.8 | 2633.6 | 2681.9 | 2730.2 | 2773.1 | 2802.7 | 2807.1 | 2803.8 | 2788.4 | 2775.3 |
| 2728.0 | 15° | 2730.2 | 2748.9 | 2802.7 | 2855.4 | 2897.1 | 2902.6 | 2875.2 | 2857.6 | 2838.9 | 2835.6 |
| 2865.3 | 17.5° | 2870.8 | 2880.6 | 2930.0 | 2981.6 | 2984.9 | 2966.3 | 2925.7 | 2909.2 | 2891.6 | 2879.5 |
| 3044.2 | 20° | 3034.3 | 3031.0 | 3066.2 | 3088.1 | 3065.1 | 3008.0 | 2946.5 | 2919.1 | 2901.5 | 2887.2 |
| 3263.8 | 22.5° | 3229.7 | 3204.5 | 3200.1 | 3194.6 | 3133.1 | 3013.5 | 2930.0 | 2894.9 | 2867.5 | 2847.7 |
| 3570.1 | 25° | 3514.1 | 3417.5 | 3350.5 | 3313.2 | 3174.9 | 2983.8 | 2877.3 | 2799.4 | 2747.8 | 2713.8 |
| 3944.4 | 27.5° | 3869.8 | 3707.3 | 3538.2 | 3447.1 | 3174.9 | 2923.5 | 2750.0 | 2623.8 | 2539.2 | 2504.1 |
| 4306.7 | 30° | 4209.0 | 4038.8 | 3789.6 | 3608.5 | 3167.2 | 2824.7 | 2544.7 | 2369.1 | 2270.3 | 2235.1 |
| 4616.3 | 32.5° | 4498.8 | 4313.3 | 4056.4 | 3785.2 | 3148.5 | 2664.4 | 2290.0 | 2095.7 | 2000.2 | 1958.5 |
| 4922.6 | 35° | 4767.8 | 4570.2 | 4324.3 | 3979.5 | 3099.1 | 2429.4 | 2010.1 | 1861.9 | 1755.4 | 1688.4 |
| 5234.3 | 37.5° | 5043.3 | 4808.4 | 4577.9 | 4155.2 | 3010.2 | 2155.0 | 1794.9 | 1668.7 | 1543.5 | 1453.5 |
| 5565.9 | 40° | 5343.0 | 5062.0 | 4849.0 | 4259.5 | 2864.2 | 1893.7 | 1628.0 | 1512.8 | 1379.9 | 1284.4 |
| 5947.9 | 42.5° | 5693.2 | 5366.1 | 5150.9 | 4313.3 | 2664.4 | 1708.2 | 1519.4 | 1406.3 | 1281.1 | 1203.2 |
| 6357.4 | 45° | 6058.8 | 5700.9 | 5426.5 | 4312.2 | 2441.5 | 1621.5 | 1484.2 | 1372.3 | 1233.9 | 1152.7 |
| 6777.9 | 47.5° | 6441.9 | 6051.1 | 5664.7 | 4241.9 | 2248.3 | 1633.5 | 1464.5 | 1298.7 | 1146.1 | 1067.1 |
| 7202.7 | 50° | 6826.2 | 6434.2 | 5895.2 | 4110.2 | 2166.0 | 1607.2 | 1390.9 | 1195.5 | 1015.5 | 944.1 |
| 7601.2 | 52.5° | 7207.1 | 6841.5 | 6093.9 | 3922.5 | 2082.5 | 1509.5 | 1296.5 | 1061.6 | 961.7 | 912.3 |
| 8012.9 | 55° | 7590.2 | 7244.4 | 6310.2 | 3649.1 | 1874.0 | 1395.3 | 1138.4 | 1011.1 | 918.9 | 873.9 |
| 8415.8 | 57.5° | 7974.5 | 7709.9 | 6515.5 | 3375.8 | 1611.6 | 1254.8 | 1051.7 | 949.6 | 876.0 | 837.6 |
| 8752.8 | 60° | 8374.1 | 8242.3 | 6727.4 | 3124.4 | 1352.5 | 1074.8 | 988.0 | 900.2 | 825.6 | 782.7 |
| 9076.7 | 62.5° | 8785.7 | 8828.6 | 6893.1 | 2800.5 | 1114.3 | 965.0 | 930.9 | 840.9 | 768.5 | 727.8 |
| 9344.5 | 65° | 9200.7 | 9393.9 | 7001.8 | 2351.5 | 903.5 | 860.7 | 869.5 | 776.1 | 702.6 | 667.5 |
| 9541.0 | 67.5° | 9513.6 | 9801.2 | 6971.1 | 1779.5 | 741.0 | 761.9 | 792.6 | 708.1 | 638.9 | 611.5 |
| 9509.2 | 70° | 9548.7 | 9752.9 | 6668.1 | 1218.6 | 620.3 | 665.3 | 707.0 | 641.1 | 569.8 | 550.0 |
| 9061.3 | 72.5° | 9081.1 | 9094.2 | 5823.9 | 795.9 | 524.8 | 584.0 | 617.0 | 573.1 | 503.9 | 484.1 |
| 7927.3 | 75° | 7854.8 | 7521.1 | 4276.0 | 524.8 | 439.1 | 501.7 | 532.4 | 501.7 | 434.7 | 439.1 |
| 5931.4 | 77.5° | 5951.2 | 5326.6 | 2596.3 | 373.3 | 366.7 | 421.6 | 463.3 | 441.3 | 384.2 | 431.4 |
| 2982.7 | 80° | 3066.2 | 2881.7 | 1158.2 | 278.8 | 289.8 | 337.0 | 380.9 | 352.4 | 304.1 | 289.8 |
| 666.4 | 82.5° | 702.6 | 816.8 | 456.7 | 199.8 | 209.7 | 242.6 | 290.9 | 264.6 | 218.5 | 184.4 |
| 277.7 | 85° | 245.9 | 269.0 | 202.0 | 125.1 | 123.0 | 151.5 | 197.6 | 176.7 | 148.2 | 118.6 |
| 117.5 | 87.5° | 77.9 | 102.1 | 75.7 | 50.5 | 52.7 | 68.1 | 91.1 | 83.4 | 69.2 | 45.0 |
| 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> |
|-------------|
| 2331.7 |
| 2395.4 |
| 2496.4 |
| 2611.7 |
| 2717.1 |
| 2775.3 |
| 2835.6 |
| 2880.6 |
| 2888.3 |
| 2854.3 |
| 2727.0 |
| 2521.7 |
| 2256.0 |
| 1979.3 |
| 1710.4 |
| 1477.6 |
| 1303.1 |
| 1218.6 |
| 1165.9 |
| 1078.0 |
| 948.5 |
| 912.3 |
| 869.5 |
| 831.0 |
| 779.4 |
| 726.7 |
| 666.4 |
| 612.6 |
| 551.1 |
| 483.0 |
| 423.8 |
| 379.8 |
| 264.6 |
| 182.2 |
| 125.1 |
| 47.2 |
| 0.0 |

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