

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: P939962

Luminaire Tested: **GALN-SB2D-760-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939962
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2D-760-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 5700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21342 lumens
Efficiency: N/A
Efficacy: 144.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

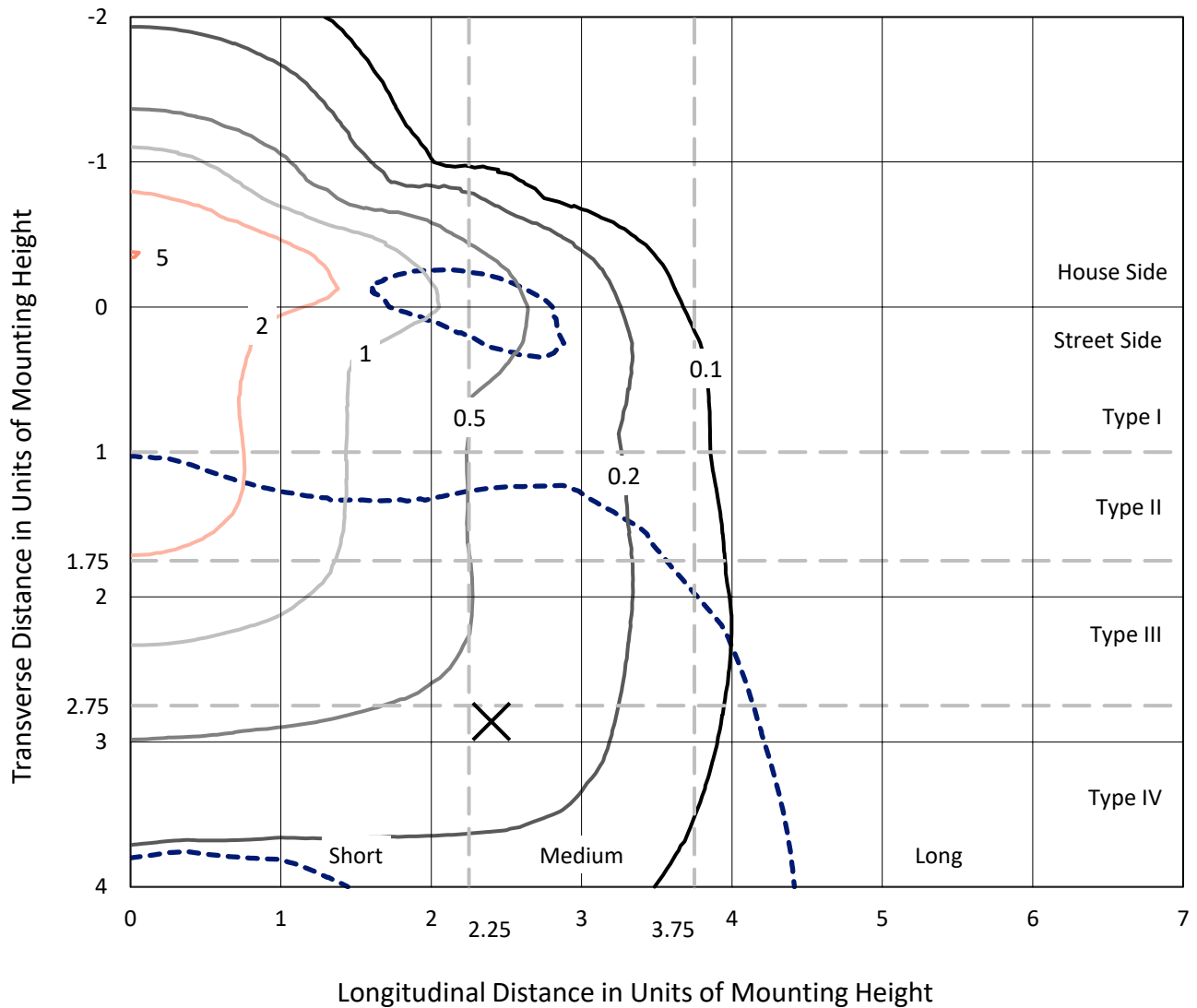
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

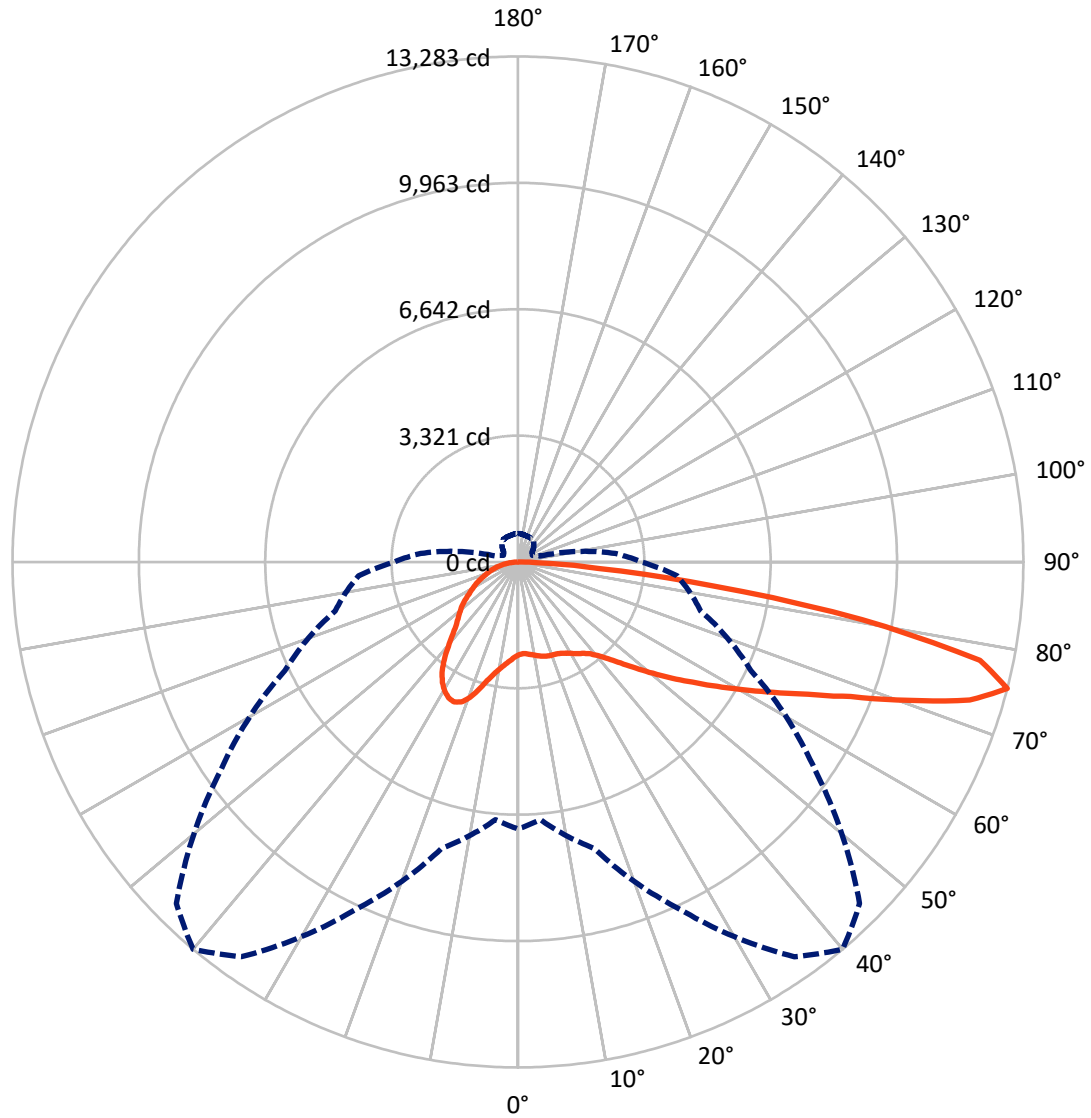
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Medium - N/A

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CATALOG NUMBER: GALN-SB2D-760-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6612.5 | 0.0 | 6612.5 |
| | % Fixture | 31.0 | 0.0 | 31.0 |
| Street Side | Lumens | 14729.5 | 0.0 | 14729.5 |
| | % Fixture | 69.0 | 0.0 | 69.0 |
| Total | Lumens | 21342.0 | 0.0 | 21342.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 243.6 | 1.1 |
| 10°-20° | 817.9 | 3.8 |
| 20°-30° | 1493.4 | 7.0 |
| 30°-40° | 2118.1 | 9.9 |
| 40°-50° | 2860.0 | 13.4 |
| 50°-60° | 3847.5 | 18.0 |
| 60°-70° | 4883.4 | 22.9 |
| 70°-80° | 4432.0 | 20.8 |
| 80°-90° | 646.0 | 3.0 |
| 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° | 21342.0 | 100.0 |
| 0°-180° | 21342.0 | 100.0 |

Coefficient of Utilization



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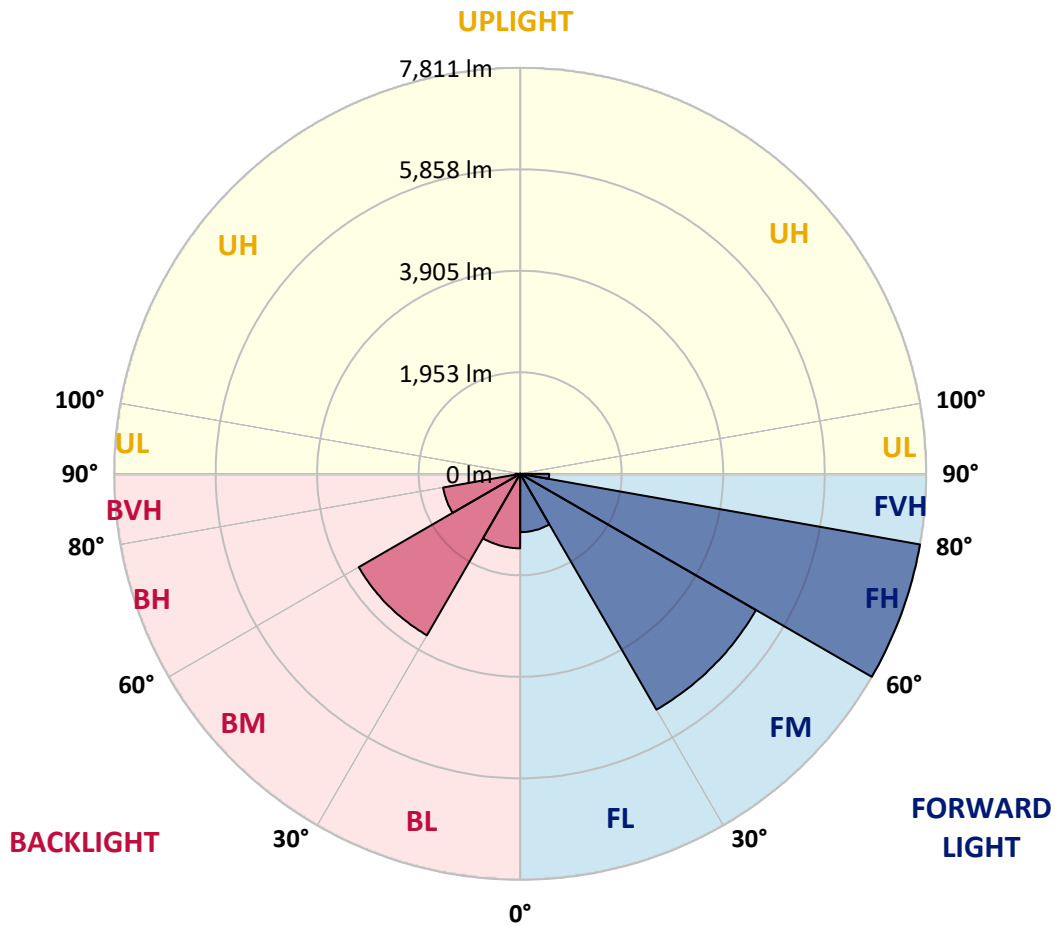
CATALOG NUMBER: GALN-SB2D-760-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1122.6 | 5.3 | | | |
| FM (30°-60°) | 5239.0 | 24.5 | | | |
| FH (60°-80°) | 7810.8 | 36.6 | | | G4/12000 |
| FVH (80°-90°) | 557.1 | 2.6 | | | G4/750 |
| BL (0°-30°) | 1432.3 | 6.7 | B3/2500 | | |
| BM (30°-60°) | 3586.7 | 16.8 | B3/5000 | | |
| BH (60°-80°) | 1504.5 | 7.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 88.9 | 0.4 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 40° | 45° | 55° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|
| 0° | 2440.5 | 2440.5 | 2440.5 | 2440.5 | 2440.5 | 2440.5 | 2440.5 | 2440.5 | 2440.5 | 2440.5 |
| 2.5° | 2403.1 | 2416.7 | 2413.3 | 2408.8 | 2408.8 | 2409.9 | 2408.8 | 2416.7 | 2424.6 | 2432.6 |
| 5° | 2428.0 | 2441.6 | 2434.8 | 2429.2 | 2424.6 | 2423.5 | 2420.1 | 2419.0 | 2423.5 | 2433.7 |
| 7.5° | 2476.7 | 2490.3 | 2480.1 | 2469.9 | 2460.9 | 2456.3 | 2451.8 | 2445.0 | 2441.6 | 2447.3 |
| 10° | 2531.0 | 2544.6 | 2532.2 | 2514.1 | 2499.3 | 2493.7 | 2489.2 | 2482.4 | 2477.8 | 2481.2 |
| 12.5° | 2585.4 | 2599.0 | 2582.0 | 2557.1 | 2537.8 | 2534.4 | 2528.8 | 2526.5 | 2525.4 | 2524.3 |
| 15° | 2636.3 | 2647.6 | 2626.1 | 2596.7 | 2576.3 | 2570.7 | 2565.0 | 2568.4 | 2574.1 | 2580.8 |
| 17.5° | 2675.9 | 2687.3 | 2655.6 | 2617.1 | 2597.8 | 2595.6 | 2592.2 | 2603.5 | 2619.3 | 2636.3 |
| 20° | 2712.2 | 2723.5 | 2682.7 | 2630.7 | 2608.0 | 2608.0 | 2609.1 | 2632.9 | 2655.6 | 2680.5 |
| 22.5° | 2763.1 | 2772.1 | 2722.3 | 2651.0 | 2618.2 | 2620.5 | 2629.5 | 2653.3 | 2681.6 | 2715.6 |
| 25° | 2838.9 | 2845.7 | 2784.6 | 2689.5 | 2652.2 | 2659.0 | 2666.9 | 2678.2 | 2705.4 | 2745.0 |
| 27.5° | 2961.2 | 2966.8 | 2886.5 | 2757.4 | 2700.8 | 2712.2 | 2723.5 | 2715.6 | 2728.0 | 2762.0 |
| 30° | 3133.2 | 3136.6 | 3034.8 | 2863.8 | 2783.5 | 2789.1 | 2791.4 | 2758.6 | 2734.8 | 2762.0 |
| 32.5° | 3337.0 | 3335.9 | 3214.7 | 2992.9 | 2877.4 | 2871.8 | 2852.5 | 2788.0 | 2732.5 | 2756.3 |
| 35° | 3652.8 | 3640.4 | 3484.1 | 3174.0 | 2983.8 | 2948.7 | 2903.5 | 2820.8 | 2743.8 | 2750.6 |
| 37.5° | 4175.8 | 4137.3 | 3921.1 | 3470.6 | 3142.3 | 3052.9 | 2986.1 | 2874.0 | 2768.8 | 2748.4 |
| 40° | 4765.5 | 4716.8 | 4479.1 | 3876.9 | 3380.0 | 3236.2 | 3128.7 | 2949.9 | 2809.5 | 2758.6 |
| 42.5° | 5465.1 | 5396.0 | 5140.2 | 4355.7 | 3681.1 | 3472.8 | 3311.0 | 3046.1 | 2869.5 | 2791.4 |
| 45° | 6324.2 | 6232.5 | 5870.3 | 4895.7 | 4060.3 | 3783.0 | 3566.8 | 3192.1 | 2961.2 | 2854.8 |
| 47.5° | 7192.4 | 7215.1 | 6700.0 | 5513.7 | 4515.4 | 4165.6 | 3887.1 | 3411.7 | 3094.8 | 2956.7 |
| 50° | 8115.0 | 8130.8 | 7525.2 | 6198.6 | 5031.5 | 4598.0 | 4247.1 | 3657.3 | 3280.4 | 3101.5 |
| 52.5° | 8834.9 | 8837.1 | 8274.6 | 6915.1 | 5569.2 | 5073.4 | 4635.3 | 3938.1 | 3495.5 | 3294.0 |
| 55° | 9285.4 | 9279.7 | 8799.8 | 7593.1 | 6187.2 | 5572.6 | 5065.5 | 4257.3 | 3758.1 | 3520.4 |
| 57.5° | 9612.5 | 9595.5 | 9162.0 | 8176.1 | 6846.0 | 6162.3 | 5552.2 | 4619.5 | 4068.2 | 3789.8 |
| 60° | 9737.0 | 9726.9 | 9407.6 | 8679.8 | 7538.8 | 6814.3 | 6113.7 | 5024.7 | 4420.3 | 4107.8 |
| 62.5° | 9784.6 | 9803.8 | 9648.7 | 9167.7 | 8280.2 | 7536.5 | 6730.6 | 5509.2 | 4816.5 | 4467.8 |
| 65° | 9952.1 | 9987.2 | 9955.5 | 9806.1 | 9117.9 | 8382.1 | 7549.0 | 6085.4 | 5248.9 | 4853.8 |
| 67.5° | 10283.8 | 10318.9 | 10332.4 | 10570.2 | 10141.1 | 9435.9 | 8570.0 | 6803.0 | 5754.8 | 5254.5 |
| 70° | 10275.9 | 10265.7 | 10505.6 | 11178.0 | 11422.5 | 10895.0 | 9946.5 | 7685.9 | 6358.2 | 5587.3 |
| 72.5° | 9353.3 | 9271.8 | 9838.9 | 11171.2 | 12488.8 | 12418.6 | 11627.4 | 8824.7 | 6878.9 | 5628.1 |
| 75° | 7017.0 | 6799.6 | 7801.4 | 10067.6 | 12666.5 | 13283.4 | 12696.0 | 9531.0 | 6755.5 | 4972.7 |
| 77.5° | 3000.8 | 2782.3 | 3963.0 | 7452.8 | 11336.5 | 12417.5 | 11715.7 | 8315.3 | 5392.6 | 3288.3 |
| 80° | 785.6 | 784.4 | 1197.6 | 3378.9 | 7709.7 | 9169.9 | 8044.8 | 5370.0 | 3081.2 | 1175.0 |
| 82.5° | 324.9 | 316.9 | 440.3 | 1314.2 | 3767.1 | 5145.8 | 4199.5 | 2395.2 | 1112.7 | 318.1 |
| 85° | 121.1 | 120.0 | 213.9 | 453.9 | 1328.9 | 2122.4 | 1536.1 | 612.4 | 277.3 | 155.1 |
| 87.5° | 34.0 | 32.8 | 46.4 | 157.3 | 323.7 | 491.3 | 262.6 | 100.7 | 78.1 | 61.1 |
| 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-SB2D-760-U-SL4

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------------|-------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 2440.5 | 0° | 2440.5 | 2440.5 | 2440.5 | 2440.5 | 2440.5 | 2440.5 | 2440.5 | 2440.5 | 2440.5 | 2440.5 |
| 2445.0 | 2.5° | 2448.4 | 2454.1 | 2464.3 | 2472.2 | 2482.4 | 2493.7 | 2509.5 | 2519.7 | 2529.9 | 2536.7 |
| 2450.7 | 5° | 2458.6 | 2471.0 | 2497.1 | 2523.1 | 2553.7 | 2582.0 | 2614.8 | 2638.6 | 2657.8 | 2663.5 |
| 2471.0 | 7.5° | 2481.2 | 2501.6 | 2545.8 | 2589.9 | 2638.6 | 2685.0 | 2732.5 | 2773.3 | 2806.1 | 2818.6 |
| 2507.3 | 10° | 2520.9 | 2548.0 | 2610.3 | 2672.5 | 2737.1 | 2808.4 | 2869.5 | 2928.4 | 2974.8 | 2994.0 |
| 2550.3 | 12.5° | 2570.7 | 2604.6 | 2686.1 | 2772.1 | 2861.6 | 2960.1 | 3039.3 | 3111.7 | 3169.5 | 3195.5 |
| 2610.3 | 15° | 2635.2 | 2679.3 | 2783.5 | 2898.9 | 3030.2 | 3167.2 | 3267.9 | 3348.3 | 3412.8 | 3444.5 |
| 2672.5 | 17.5° | 2705.4 | 2764.2 | 2895.5 | 3069.9 | 3257.8 | 3437.7 | 3555.5 | 3614.3 | 3681.1 | 3711.7 |
| 2730.3 | 20° | 2773.3 | 2845.7 | 3033.6 | 3287.2 | 3537.3 | 3728.6 | 3823.7 | 3839.6 | 3844.1 | 3847.5 |
| 2784.6 | 22.5° | 2843.5 | 2940.8 | 3206.8 | 3561.1 | 3829.4 | 3961.8 | 3975.4 | 3907.5 | 3812.4 | 3768.3 |
| 2837.8 | 25° | 2920.4 | 3049.5 | 3433.2 | 3863.3 | 4080.7 | 4096.5 | 3992.4 | 3827.1 | 3647.1 | 3564.5 |
| 2880.8 | 27.5° | 2995.1 | 3175.1 | 3704.9 | 4152.0 | 4261.8 | 4122.6 | 3898.4 | 3664.1 | 3446.8 | 3359.6 |
| 2911.4 | 30° | 3069.9 | 3318.9 | 4004.8 | 4404.4 | 4344.4 | 4058.0 | 3750.2 | 3488.7 | 3270.2 | 3178.5 |
| 2938.5 | 32.5° | 3145.7 | 3486.4 | 4350.1 | 4586.7 | 4329.7 | 3921.1 | 3565.6 | 3291.7 | 3099.3 | 3003.1 |
| 2962.3 | 35° | 3231.7 | 3692.4 | 4677.2 | 4686.3 | 4231.2 | 3719.6 | 3322.3 | 3056.3 | 2888.7 | 2811.8 |
| 2990.6 | 37.5° | 3343.8 | 3953.9 | 4965.9 | 4711.2 | 4059.2 | 3424.2 | 3020.0 | 2777.8 | 2639.7 | 2604.6 |
| 3032.5 | 40° | 3483.0 | 4268.6 | 5186.6 | 4671.6 | 3804.5 | 3065.3 | 2689.5 | 2496.0 | 2417.8 | 2425.8 |
| 3089.1 | 42.5° | 3664.1 | 4620.6 | 5341.7 | 4569.7 | 3450.2 | 2695.2 | 2399.7 | 2313.7 | 2351.1 | 2382.8 |
| 3174.0 | 45° | 3899.6 | 4986.2 | 5437.9 | 4396.5 | 3049.5 | 2381.6 | 2228.8 | 2249.2 | 2277.5 | 2280.9 |
| 3311.0 | 47.5° | 4200.7 | 5356.4 | 5501.3 | 4135.0 | 2640.8 | 2160.9 | 2120.1 | 2124.7 | 2119.0 | 2095.2 |
| 3515.8 | 50° | 4576.5 | 5716.4 | 5557.9 | 3788.6 | 2293.3 | 2022.8 | 1968.5 | 1952.6 | 1874.5 | 1797.5 |
| 3788.6 | 52.5° | 5004.4 | 6046.9 | 5581.6 | 3358.5 | 2022.8 | 1907.3 | 1819.0 | 1719.4 | 1573.4 | 1549.6 |
| 4131.6 | 55° | 5479.8 | 6352.5 | 5520.5 | 2829.9 | 1795.3 | 1759.1 | 1625.5 | 1505.5 | 1489.6 | 1469.3 |
| 4583.3 | 57.5° | 6048.0 | 6681.9 | 5396.0 | 2240.1 | 1562.1 | 1585.9 | 1455.7 | 1469.3 | 1441.0 | 1409.3 |
| 5164.0 | 60° | 6669.5 | 7022.6 | 5177.5 | 1702.5 | 1321.0 | 1369.7 | 1411.5 | 1410.4 | 1402.5 | 1376.5 |
| 5776.3 | 62.5° | 7228.6 | 7246.7 | 4747.4 | 1304.0 | 1109.3 | 1202.1 | 1316.5 | 1315.3 | 1308.5 | 1293.8 |
| 6415.9 | 65° | 7561.4 | 7212.8 | 4029.7 | 1026.7 | 935.0 | 1064.0 | 1187.4 | 1196.5 | 1197.6 | 1196.5 |
| 6897.0 | 67.5° | 7502.6 | 6815.5 | 3044.9 | 817.3 | 791.2 | 923.7 | 1059.5 | 1072.0 | 1081.0 | 1083.3 |
| 6958.1 | 70° | 6837.0 | 5942.7 | 1985.4 | 652.0 | 663.3 | 800.3 | 938.4 | 950.8 | 958.8 | 967.8 |
| 6037.8 | 72.5° | 5329.2 | 4369.3 | 1136.5 | 527.5 | 551.3 | 693.9 | 818.4 | 833.1 | 837.6 | 854.6 |
| 4201.8 | 75° | 3247.6 | 2569.5 | 613.5 | 415.4 | 452.8 | 593.1 | 699.5 | 716.5 | 724.4 | 744.8 |
| 2063.5 | 77.5° | 1544.0 | 1112.7 | 349.8 | 323.7 | 364.5 | 484.5 | 590.9 | 610.1 | 588.6 | 599.9 |
| 569.4 | 80° | 521.8 | 413.2 | 220.7 | 246.8 | 278.5 | 378.1 | 473.2 | 492.4 | 447.1 | 444.9 |
| 189.0 | 82.5° | 182.2 | 167.5 | 140.4 | 164.1 | 180.0 | 270.5 | 357.7 | 382.6 | 332.8 | 331.7 |
| 84.9 | 85° | 71.3 | 67.9 | 78.1 | 89.4 | 107.5 | 166.4 | 235.4 | 247.9 | 204.9 | 165.3 |
| 24.9 | 87.5° | 14.7 | 15.8 | 19.2 | 20.4 | 32.8 | 57.7 | 84.9 | 104.1 | 82.6 | 70.2 |
| 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> |
|-------------|
| 2440.5 |
| 2532.2 |
| 2665.7 |
| 2819.7 |
| 2995.1 |
| 3195.5 |
| 3442.3 |
| 3710.5 |
| 3856.6 |
| 3780.7 |
| 3577.0 |
| 3369.8 |
| 3188.7 |
| 3015.5 |
| 2828.7 |
| 2629.5 |
| 2452.9 |
| 2412.2 |
| 2303.5 |
| 2113.4 |
| 1807.7 |
| 1557.6 |
| 1472.7 |
| 1403.6 |
| 1367.4 |
| 1288.2 |
| 1196.5 |
| 1085.5 |
| 972.3 |
| 861.4 |
| 747.1 |
| 590.9 |
| 440.3 |
| 315.8 |
| 163.0 |
| 64.5 |
| 0.0 |

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