

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: P947106

Luminaire Tested: **GALN-SB2C-760-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947106
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2C-760-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15486 lumens
Efficiency: N/A
Efficacy: 153.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

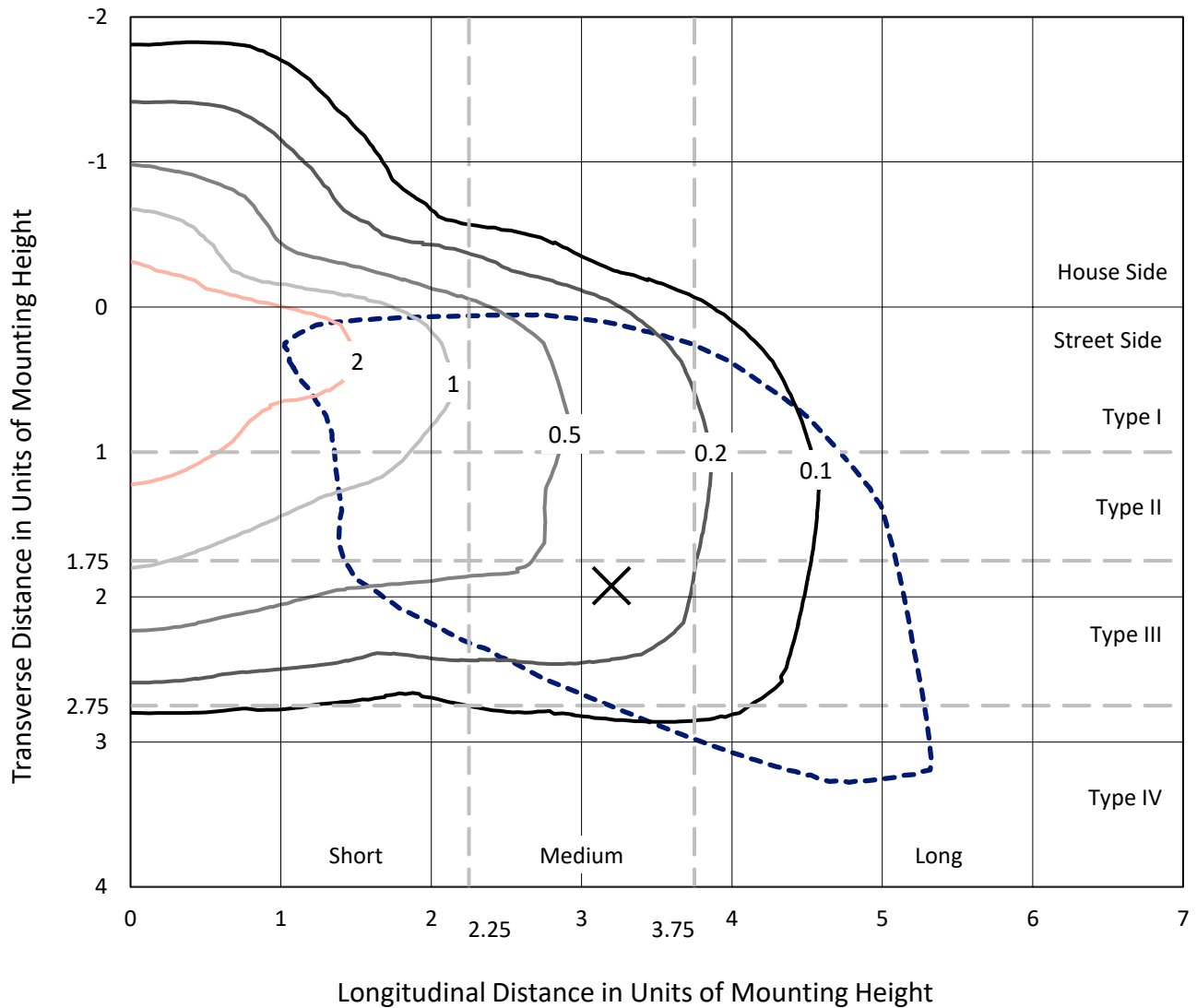
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

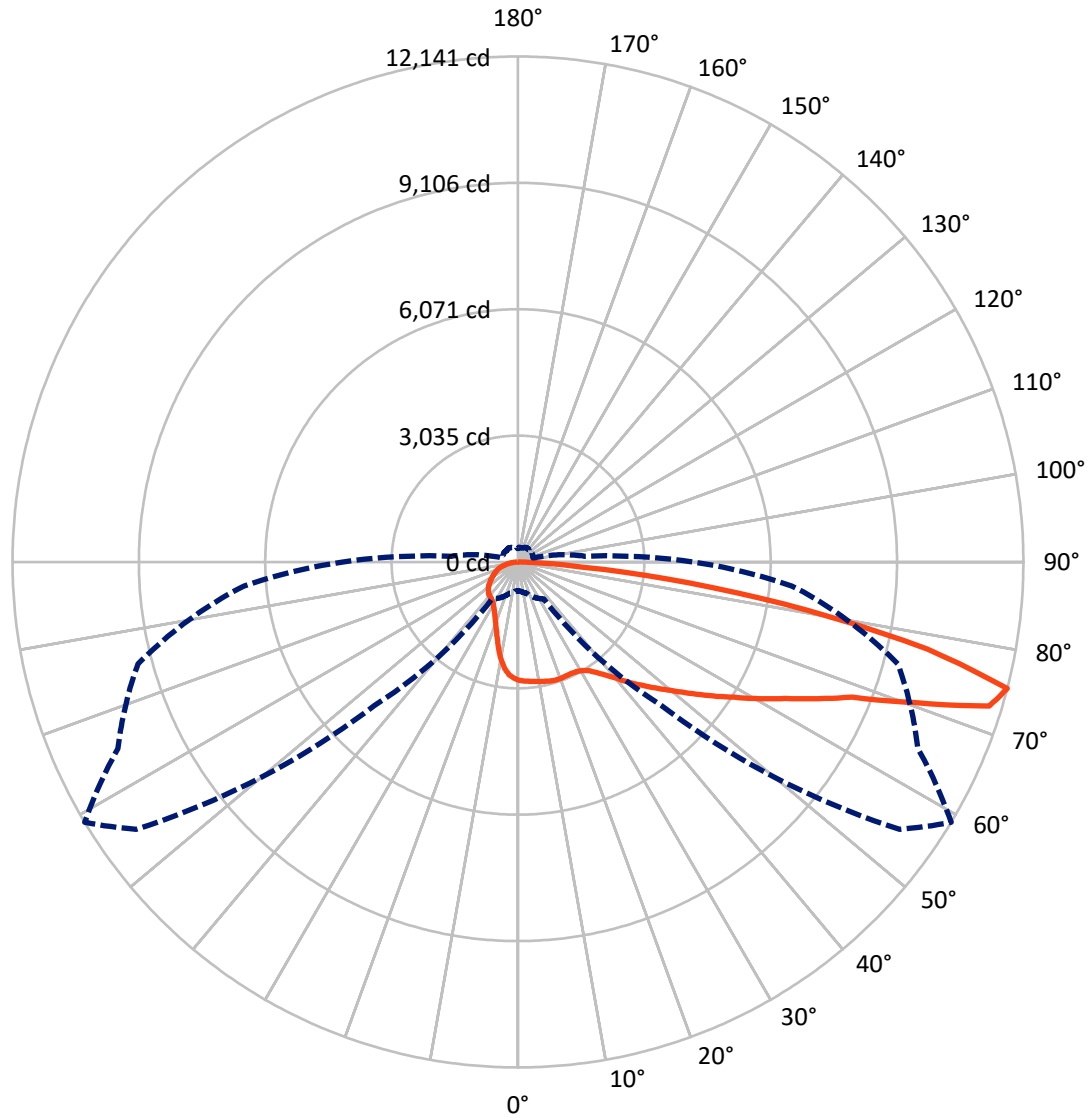
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Medium - N/A

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CATALOG NUMBER: GALN-SB2C-760-U-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2904.5 | 0.0 | 2904.5 |
| | % Fixture | 18.8 | 0.0 | 18.8 |
| Street Side | Lumens | 12581.5 | 0.0 | 12581.5 |
| | % Fixture | 81.2 | 0.0 | 81.2 |
| Total | Lumens | 15486.0 | 0.0 | 15486.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 254.9 | 1.6 |
| 10°-20° | 651.5 | 4.2 |
| 20°-30° | 989.5 | 6.4 |
| 30°-40° | 1470.9 | 9.5 |
| 40°-50° | 2187.5 | 14.1 |
| 50°-60° | 2969.2 | 19.2 |
| 60°-70° | 3625.0 | 23.4 |
| 70°-80° | 2844.8 | 18.4 |
| 80°-90° | 492.8 | 3.2 |
| 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° | 15486.0 | 100.0 |
| 0°-180° | 15486.0 | 100.0 |

Coefficient of Utilization



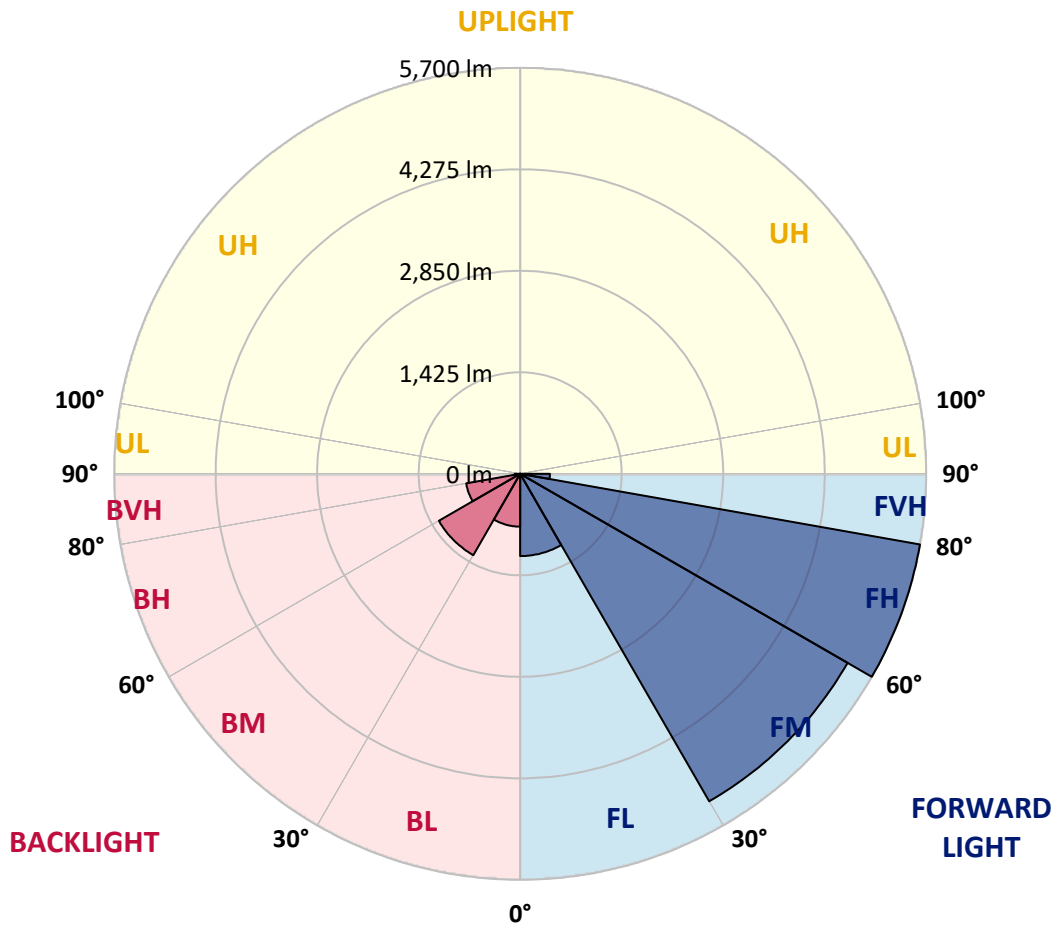
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1154.6 | 7.5 | | | |
| FM (30°-60°) | 5309.2 | 34.3 | | | |
| FH (60°-80°) | 5700.2 | 36.8 | | | G3/7500 |
| FVH (80°-90°) | 417.4 | 2.7 | | | G3/500 |
| BL (0°-30°) | 741.2 | 4.8 | B2/1000 | | |
| BM (30°-60°) | 1318.4 | 8.5 | B2/2500 | | |
| BH (60°-80°) | 769.5 | 5.0 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 75.4 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0° | 2842.4 | 2842.4 | 2842.4 | 2842.4 | 2842.4 | 2842.4 | 2842.4 | 2842.4 | 2842.4 | 2842.4 |
| 2.5° | 2866.6 | 2856.6 | 2866.6 | 2862.4 | 2860.7 | 2857.4 | 2858.2 | 2864.1 | 2860.7 | 2864.9 |
| 5° | 2847.4 | 2841.6 | 2851.6 | 2849.1 | 2859.9 | 2861.6 | 2872.4 | 2879.1 | 2883.2 | 2884.1 |
| 7.5° | 2815.8 | 2809.9 | 2824.1 | 2835.8 | 2859.1 | 2865.7 | 2888.2 | 2899.1 | 2904.9 | 2914.9 |
| 10° | 2700.0 | 2697.5 | 2732.5 | 2776.6 | 2831.6 | 2865.7 | 2899.9 | 2918.2 | 2927.4 | 2954.1 |
| 12.5° | 2495.0 | 2498.4 | 2544.2 | 2629.2 | 2739.1 | 2849.1 | 2913.2 | 2939.9 | 2954.1 | 2987.4 |
| 15° | 2299.3 | 2298.4 | 2348.4 | 2439.2 | 2593.3 | 2775.8 | 2919.9 | 2965.7 | 2989.9 | 3039.0 |
| 17.5° | 2186.0 | 2182.6 | 2217.6 | 2286.8 | 2430.1 | 2663.3 | 2903.2 | 2979.9 | 3031.5 | 3093.2 |
| 20° | 2165.1 | 2158.5 | 2176.8 | 2211.0 | 2312.6 | 2540.0 | 2859.9 | 2979.9 | 3064.8 | 3144.8 |
| 22.5° | 2240.9 | 2230.1 | 2222.6 | 2218.5 | 2263.4 | 2438.4 | 2810.8 | 2969.9 | 3114.0 | 3219.0 |
| 25° | 2393.4 | 2376.7 | 2338.4 | 2300.9 | 2287.6 | 2392.6 | 2767.4 | 2967.4 | 3187.3 | 3318.9 |
| 27.5° | 2640.0 | 2619.2 | 2541.7 | 2451.7 | 2370.9 | 2415.9 | 2748.3 | 2982.4 | 3268.1 | 3424.7 |
| 30° | 2945.7 | 2923.2 | 2825.8 | 2687.5 | 2542.5 | 2502.5 | 2772.4 | 3026.5 | 3371.4 | 3565.5 |
| 32.5° | 3219.8 | 3194.8 | 3111.5 | 2970.7 | 2774.9 | 2652.5 | 2849.1 | 3110.7 | 3533.9 | 3761.3 |
| 35° | 3463.1 | 3433.9 | 3358.9 | 3229.0 | 3059.9 | 2863.2 | 2987.4 | 3259.8 | 3764.6 | 4079.5 |
| 37.5° | 3701.3 | 3667.2 | 3585.5 | 3448.1 | 3329.8 | 3144.0 | 3178.1 | 3451.4 | 4071.2 | 4466.1 |
| 40° | 3967.9 | 3918.7 | 3819.6 | 3683.8 | 3568.9 | 3473.1 | 3428.9 | 3686.3 | 4382.8 | 4897.6 |
| 42.5° | 4226.1 | 4179.5 | 4061.2 | 3945.4 | 3801.3 | 3773.8 | 3719.6 | 3961.2 | 4723.5 | 5371.6 |
| 45° | 4504.4 | 4448.6 | 4305.3 | 4158.7 | 4067.9 | 3973.7 | 4001.2 | 4236.1 | 5057.5 | 5854.8 |
| 47.5° | 4765.1 | 4702.7 | 4533.5 | 4370.3 | 4320.3 | 4142.0 | 4259.5 | 4538.5 | 5404.9 | 6344.6 |
| 50° | 4905.9 | 4844.3 | 4703.5 | 4556.0 | 4516.9 | 4349.4 | 4539.4 | 4870.9 | 5769.0 | 6832.8 |
| 52.5° | 5023.4 | 4956.7 | 4772.6 | 4691.0 | 4679.3 | 4575.2 | 4884.3 | 5250.8 | 6133.0 | 7264.3 |
| 55° | 5148.3 | 5074.2 | 4839.3 | 4766.0 | 4819.3 | 4828.4 | 5293.3 | 5681.5 | 6517.9 | 7685.0 |
| 57.5° | 5292.5 | 5198.3 | 4903.4 | 4829.3 | 4955.9 | 5125.0 | 5763.1 | 6128.0 | 6896.1 | 8074.9 |
| 60° | 5428.3 | 5333.3 | 5026.7 | 4930.1 | 5103.4 | 5469.1 | 6302.1 | 6668.7 | 7324.3 | 8422.3 |
| 62.5° | 5454.9 | 5376.6 | 5125.0 | 5124.2 | 5303.3 | 5870.6 | 6940.3 | 7214.4 | 7698.4 | 8765.5 |
| 65° | 4993.4 | 4944.2 | 4795.1 | 5116.7 | 5589.9 | 6448.8 | 7650.9 | 7912.5 | 8174.0 | 9065.4 |
| 67.5° | 3800.4 | 3807.1 | 3796.3 | 4416.9 | 5358.3 | 7279.3 | 8679.7 | 8659.7 | 8761.4 | 9402.0 |
| 70° | 1737.8 | 1776.9 | 2031.8 | 3049.0 | 4292.8 | 7375.1 | 10380.8 | 10121.8 | 9498.6 | 9837.7 |
| 72.5° | 938.9 | 968.9 | 1073.0 | 1477.0 | 2580.8 | 6557.1 | 11652.1 | 11836.2 | 10479.1 | 10130.9 |
| 75° | 688.9 | 705.6 | 778.1 | 938.9 | 1083.8 | 4873.4 | 11196.4 | 12141.1 | 10601.6 | 9447.0 |
| 77.5° | 515.7 | 523.2 | 582.3 | 743.9 | 554.8 | 2569.2 | 8946.3 | 10055.1 | 9075.4 | 7761.7 |
| 80° | 374.0 | 382.4 | 426.5 | 558.2 | 389.0 | 939.7 | 6143.0 | 7057.7 | 6215.5 | 4947.6 |
| 82.5° | 258.3 | 261.6 | 280.7 | 379.9 | 271.6 | 364.9 | 3485.5 | 4138.7 | 3469.7 | 1736.1 |
| 85° | 155.8 | 159.9 | 168.3 | 221.6 | 154.1 | 173.3 | 1504.5 | 1556.2 | 1037.2 | 414.9 |
| 87.5° | 64.1 | 68.3 | 75.0 | 93.3 | 60.8 | 48.3 | 248.3 | 311.6 | 194.1 | 121.6 |
| 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-SB2C-760-U-SL3

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2842.4 | 0° | 2842.4 | 2842.4 | 2842.4 | 2842.4 | 2842.4 | 2842.4 | 2842.4 | 2842.4 | 2842.4 | 2842.4 |
| 2850.8 | 2.5° | 2846.6 | 2840.8 | 2824.9 | 2803.3 | 2783.3 | 2758.3 | 2747.5 | 2738.3 | 2730.0 | 2714.1 |
| 2873.2 | 5° | 2864.1 | 2848.3 | 2805.8 | 2750.8 | 2688.3 | 2620.0 | 2553.3 | 2507.5 | 2468.4 | 2439.2 |
| 2899.1 | 7.5° | 2890.7 | 2860.7 | 2783.3 | 2670.8 | 2527.5 | 2380.9 | 2248.4 | 2154.3 | 2083.5 | 2057.7 |
| 2935.7 | 10° | 2918.2 | 2882.4 | 2747.5 | 2549.2 | 2301.8 | 2076.0 | 1900.2 | 1803.6 | 1746.9 | 1728.6 |
| 2979.0 | 12.5° | 2950.7 | 2898.2 | 2691.6 | 2380.1 | 2049.3 | 1801.9 | 1648.6 | 1592.0 | 1562.8 | 1552.8 |
| 3032.4 | 15° | 2998.2 | 2911.6 | 2607.5 | 2168.5 | 1808.6 | 1602.0 | 1502.9 | 1463.7 | 1448.7 | 1447.9 |
| 3087.3 | 17.5° | 3034.0 | 2914.1 | 2476.7 | 1941.9 | 1623.6 | 1481.2 | 1399.6 | 1384.6 | 1394.6 | 1409.5 |
| 3141.5 | 20° | 3074.0 | 2891.6 | 2305.1 | 1735.3 | 1493.7 | 1375.4 | 1341.2 | 1351.2 | 1375.4 | 1397.1 |
| 3213.1 | 22.5° | 3102.3 | 2850.8 | 2097.7 | 1574.5 | 1381.2 | 1314.6 | 1312.9 | 1333.7 | 1347.1 | 1357.9 |
| 3297.3 | 25° | 3127.3 | 2781.6 | 1877.7 | 1439.5 | 1288.8 | 1277.9 | 1296.3 | 1289.6 | 1280.4 | 1289.6 |
| 3381.4 | 27.5° | 3145.7 | 2672.5 | 1681.1 | 1321.2 | 1223.8 | 1252.9 | 1242.1 | 1227.1 | 1226.3 | 1231.3 |
| 3480.5 | 30° | 3139.8 | 2526.7 | 1519.5 | 1208.8 | 1178.0 | 1206.3 | 1180.5 | 1178.0 | 1175.5 | 1178.0 |
| 3629.7 | 32.5° | 3139.8 | 2360.9 | 1395.4 | 1131.3 | 1148.8 | 1138.0 | 1135.5 | 1129.6 | 1119.6 | 1118.8 |
| 3832.1 | 35° | 3157.3 | 2195.1 | 1288.8 | 1089.7 | 1124.6 | 1098.8 | 1100.5 | 1086.3 | 1065.5 | 1055.5 |
| 4100.4 | 37.5° | 3193.1 | 2061.8 | 1183.0 | 1069.7 | 1082.2 | 1081.3 | 1074.7 | 1050.5 | 1013.8 | 982.2 |
| 4435.2 | 40° | 3279.8 | 2022.7 | 1110.5 | 1060.5 | 1062.2 | 1072.2 | 1054.7 | 1008.0 | 924.7 | 873.1 |
| 4775.1 | 42.5° | 3415.6 | 2088.5 | 1094.6 | 1038.0 | 1048.8 | 1058.8 | 1024.7 | 916.4 | 857.2 | 826.4 |
| 5131.7 | 45° | 3588.0 | 2203.5 | 1128.8 | 1005.5 | 1017.2 | 1034.7 | 933.0 | 881.4 | 854.7 | 855.6 |
| 5484.9 | 47.5° | 3806.3 | 2324.3 | 1192.1 | 977.2 | 971.4 | 981.4 | 872.2 | 840.6 | 803.9 | 813.1 |
| 5824.0 | 50° | 4058.7 | 2446.7 | 1252.1 | 938.9 | 920.5 | 888.0 | 833.1 | 803.1 | 756.4 | 734.8 |
| 6151.4 | 52.5° | 4331.9 | 2565.0 | 1276.3 | 892.2 | 865.6 | 828.1 | 806.4 | 769.8 | 713.1 | 677.3 |
| 6460.4 | 55° | 4591.0 | 2672.5 | 1249.6 | 836.4 | 810.6 | 781.4 | 778.1 | 755.6 | 694.8 | 644.8 |
| 6735.3 | 57.5° | 4835.9 | 2762.4 | 1183.0 | 779.7 | 754.8 | 737.3 | 759.8 | 748.9 | 672.3 | 608.1 |
| 6995.3 | 60° | 5043.4 | 2824.1 | 1086.3 | 722.3 | 704.8 | 695.6 | 729.8 | 726.4 | 640.6 | 569.0 |
| 7228.5 | 62.5° | 5208.3 | 2848.3 | 979.7 | 667.3 | 663.1 | 646.5 | 688.1 | 688.1 | 600.6 | 530.7 |
| 7433.4 | 65° | 5337.5 | 2824.9 | 871.4 | 613.1 | 621.5 | 596.5 | 637.3 | 632.3 | 558.2 | 496.5 |
| 7669.2 | 67.5° | 5451.6 | 2748.3 | 751.4 | 559.8 | 579.0 | 547.3 | 584.0 | 572.3 | 511.5 | 462.4 |
| 7873.3 | 70° | 5502.4 | 2570.0 | 614.8 | 506.5 | 529.8 | 499.0 | 530.7 | 509.0 | 459.0 | 425.7 |
| 7649.2 | 72.5° | 5094.2 | 2136.0 | 484.0 | 450.7 | 470.7 | 445.7 | 473.2 | 448.2 | 402.4 | 387.4 |
| 6605.4 | 75° | 4214.5 | 1602.8 | 372.4 | 389.9 | 404.9 | 385.7 | 404.0 | 385.7 | 344.1 | 354.9 |
| 4879.3 | 77.5° | 3060.7 | 1082.2 | 284.9 | 325.7 | 332.4 | 322.4 | 338.2 | 317.4 | 279.9 | 277.4 |
| 2431.7 | 80° | 1522.0 | 634.0 | 223.3 | 257.4 | 254.9 | 248.3 | 266.6 | 256.6 | 224.9 | 238.3 |
| 656.5 | 82.5° | 440.7 | 271.6 | 162.4 | 180.8 | 175.8 | 177.4 | 190.8 | 195.8 | 293.2 | 290.7 |
| 204.1 | 85° | 138.3 | 106.6 | 97.5 | 100.8 | 95.8 | 98.3 | 112.5 | 223.3 | 206.6 | 120.8 |
| 63.3 | 87.5° | 35.8 | 36.7 | 24.2 | 25.8 | 26.7 | 31.7 | 35.8 | 135.8 | 65.0 | 42.5 |
| 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> |
| 2842.4 |
| 2706.6 |
| 2415.1 |
| 2012.7 |
| 1700.3 |
| 1555.3 |
| 1451.2 |
| 1415.4 |
| 1404.5 |
| 1363.7 |
| 1295.4 |
| 1239.6 |
| 1187.1 |
| 1129.6 |
| 1065.5 |
| 993.0 |
| 879.7 |
| 826.4 |
| 859.7 |
| 836.4 |
| 740.6 |
| 676.4 |
| 644.8 |
| 604.8 |
| 566.5 |
| 528.2 |
| 493.2 |
| 459.0 |
| 419.0 |
| 374.9 |
| <i>324.1</i> |
| 264.9 |
| 235.8 |
| 297.4 |
| 130.8 |
| 45.0 |
| 0.0 |

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