

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: P948649

Luminaire Tested: **GALN-SB3C-850-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948649
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3C-850-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22065 lumens
Efficiency: N/A
Efficacy: 148.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

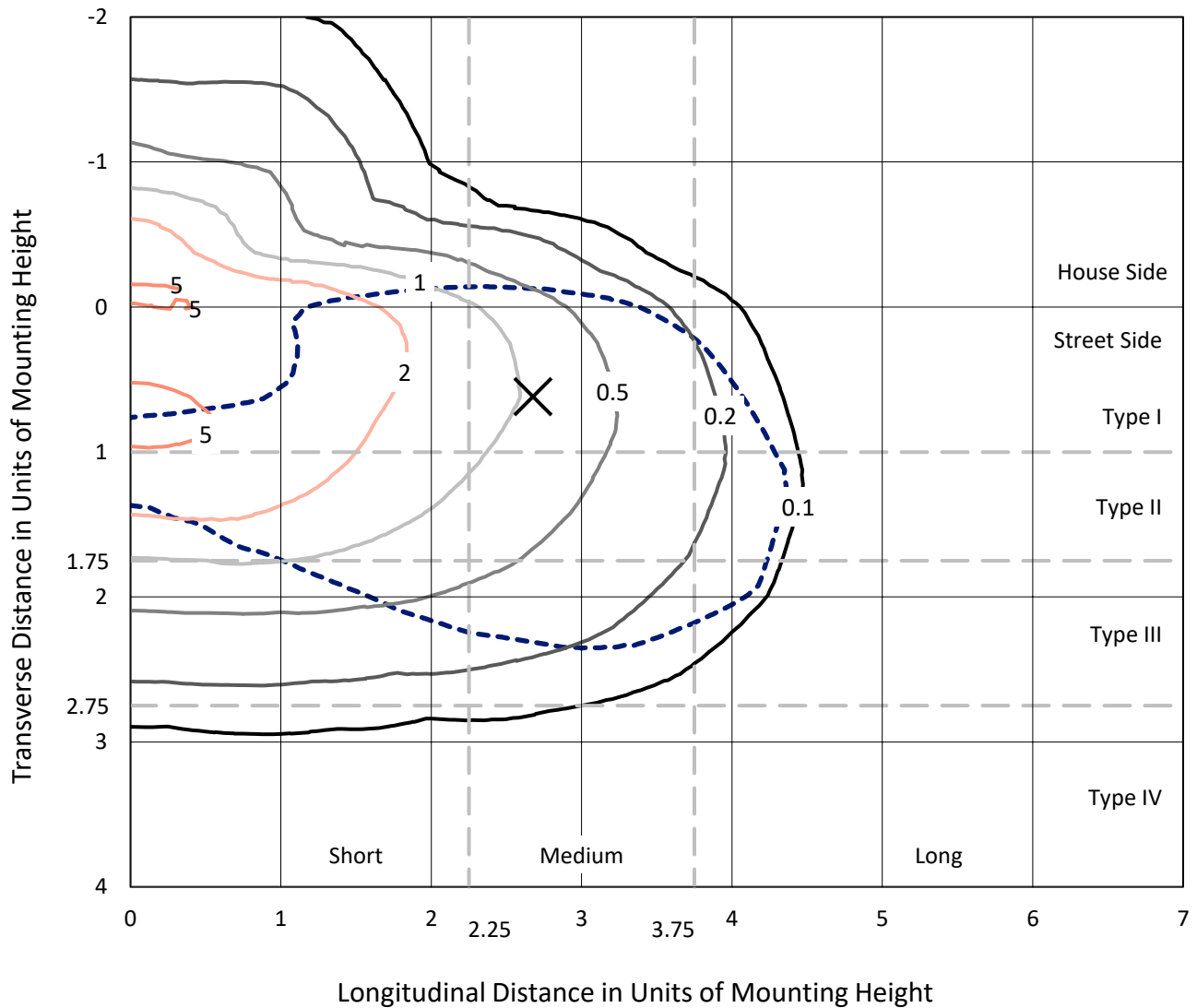
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

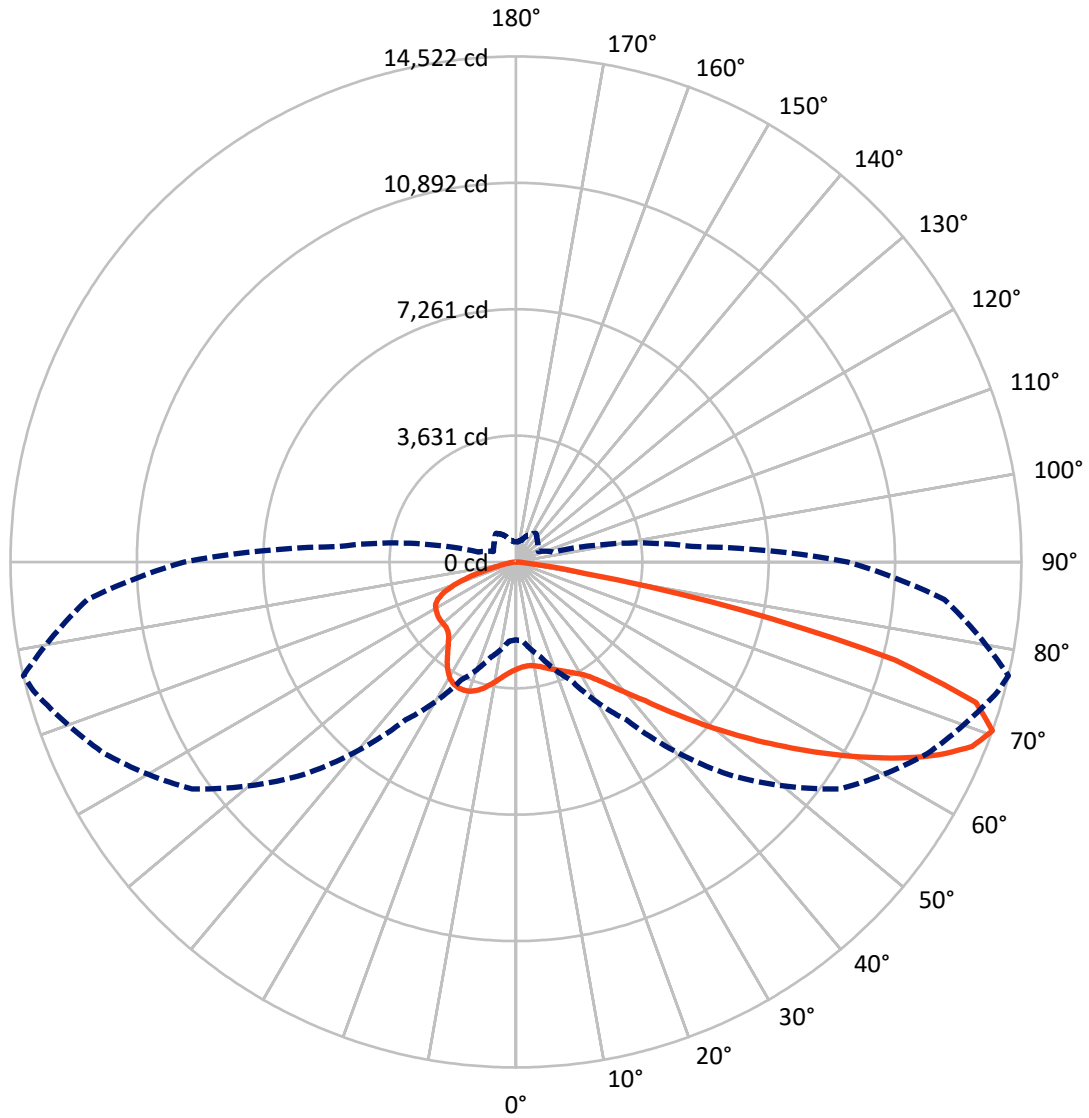
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4831.9 | 0.0 | 4831.9 |
| | % Fixture | 21.9 | 0.0 | 21.9 |
| Street Side | Lumens | 17233.1 | 0.0 | 17233.1 |
| | % Fixture | 78.1 | 0.0 | 78.1 |
| Total | Lumens | 22065.0 | 0.0 | 22065.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 293.6 | 1.3 |
| 10°-20° | 847.3 | 3.8 |
| 20°-30° | 1449.0 | 6.6 |
| 30°-40° | 2330.2 | 10.6 |
| 40°-50° | 3638.0 | 16.5 |
| 50°-60° | 4859.5 | 22.0 |
| 60°-70° | 5179.5 | 23.5 |
| 70°-80° | 3188.5 | 14.5 |
| 80°-90° | 279.4 | 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° | 22065.0 | 100.0 |
| 0°-180° | 22065.0 | 100.0 |



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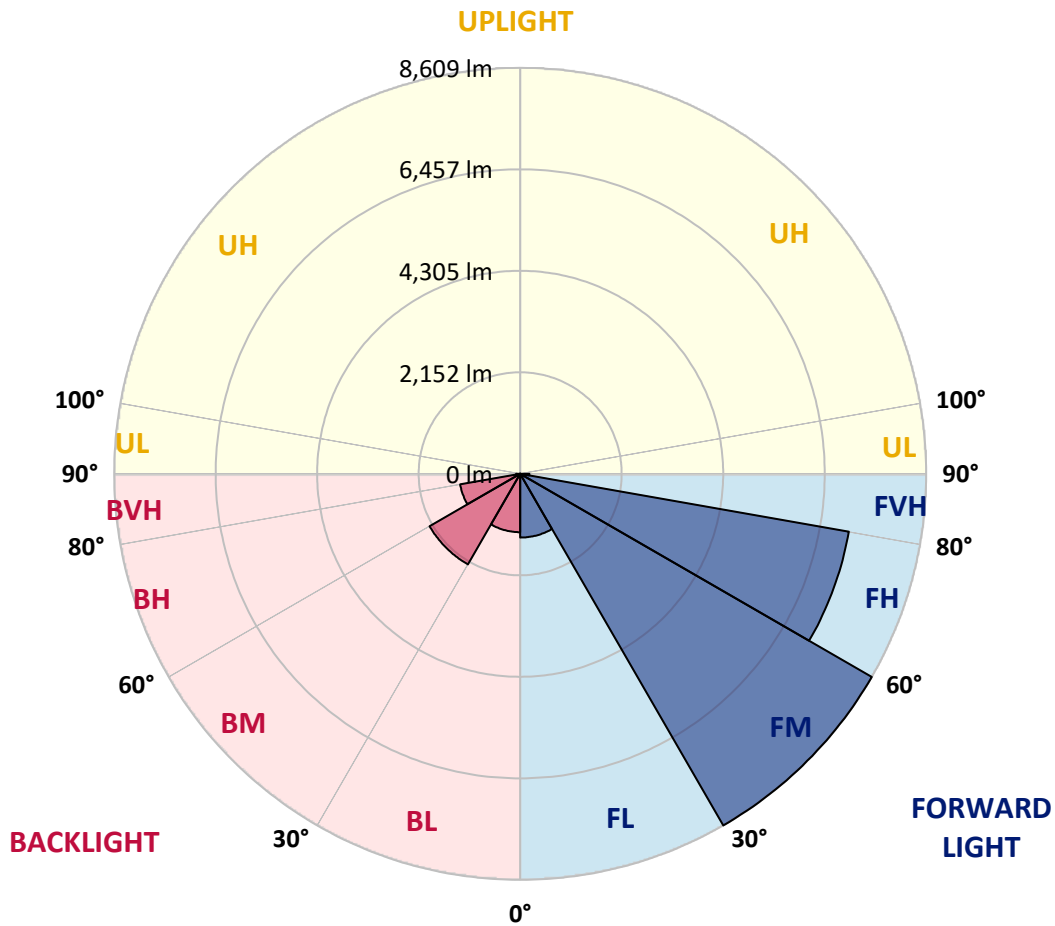
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1351.8 | 6.1 | | | |
| FM (30°-60°) | 8609.3 | 39.0 | | | |
| FH (60°-80°) | 7076.6 | 32.1 | | | G3/7500 |
| FVH (80°-90°) | 195.4 | 0.9 | | | G2/225 |
| BL (0°-30°) | 1238.1 | 5.6 | B3/2500 | | |
| BM (30°-60°) | 2218.4 | 10.1 | B2/2500 | | |
| BH (60°-80°) | 1291.4 | 5.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 84.0 | 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-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 3078.3 | 3078.3 | 3078.3 | 3078.3 | 3078.3 | 3078.3 | 3078.3 | 3078.3 | 3078.3 | 3078.3 |
| 2.5° | 2837.6 | 2836.4 | 2851.1 | 2855.6 | 2882.8 | 2902.0 | 2938.1 | 2976.6 | 3026.3 | 3031.9 |
| 5° | 2673.7 | 2673.7 | 2690.7 | 2708.7 | 2743.8 | 2782.2 | 2837.6 | 2904.2 | 2990.1 | 3003.7 |
| 7.5° | 2534.7 | 2543.8 | 2558.4 | 2593.5 | 2634.2 | 2689.5 | 2774.3 | 2869.2 | 2982.2 | 3003.7 |
| 10° | 2422.8 | 2433.0 | 2451.1 | 2479.3 | 2540.4 | 2617.2 | 2728.0 | 2850.0 | 3001.4 | 3035.3 |
| 12.5° | 2387.8 | 2398.0 | 2408.1 | 2429.6 | 2486.1 | 2576.5 | 2708.7 | 2859.0 | 3047.8 | 3081.7 |
| 15° | 2469.2 | 2481.6 | 2473.7 | 2468.0 | 2497.4 | 2579.9 | 2717.8 | 2891.8 | 3105.4 | 3154.0 |
| 17.5° | 2656.8 | 2661.3 | 2643.2 | 2590.1 | 2585.6 | 2629.6 | 2760.7 | 2937.0 | 3177.7 | 3230.8 |
| 20° | 2959.6 | 2951.7 | 2914.4 | 2809.3 | 2749.4 | 2740.4 | 2834.2 | 3004.8 | 3252.3 | 3308.8 |
| 22.5° | 3371.0 | 3361.9 | 3287.3 | 3121.2 | 2987.9 | 2899.7 | 2940.4 | 3093.0 | 3335.9 | 3399.2 |
| 25° | 3884.0 | 3871.6 | 3762.0 | 3535.9 | 3329.1 | 3111.0 | 3085.0 | 3209.4 | 3438.8 | 3497.5 |
| 27.5° | 4482.9 | 4472.8 | 4354.1 | 4055.8 | 3757.4 | 3400.3 | 3264.7 | 3346.1 | 3546.1 | 3612.8 |
| 30° | 5127.1 | 5156.4 | 4946.2 | 4625.3 | 4247.9 | 3777.8 | 3506.6 | 3514.5 | 3685.1 | 3745.0 |
| 32.5° | 5884.2 | 5935.0 | 5681.9 | 5275.1 | 4759.8 | 4188.0 | 3811.7 | 3749.5 | 3887.4 | 3937.1 |
| 35° | 6634.6 | 6692.2 | 6482.0 | 6032.2 | 5439.0 | 4671.6 | 4130.3 | 4019.6 | 4156.3 | 4210.6 |
| 37.5° | 7283.2 | 7360.0 | 7251.6 | 6860.6 | 6165.6 | 5254.8 | 4546.2 | 4337.1 | 4487.4 | 4555.3 |
| 40° | 7795.1 | 7912.6 | 7904.7 | 7660.6 | 7022.2 | 5962.2 | 5073.9 | 4729.3 | 4898.8 | 4972.2 |
| 42.5° | 8211.0 | 8312.7 | 8400.8 | 8388.4 | 7916.0 | 6765.6 | 5694.3 | 5238.9 | 5367.8 | 5452.5 |
| 45° | 8498.0 | 8606.5 | 8796.3 | 9000.9 | 8776.0 | 7625.6 | 6405.1 | 5843.5 | 5961.0 | 6088.7 |
| 47.5° | 8754.5 | 8877.7 | 9124.1 | 9448.4 | 9506.0 | 8489.0 | 7183.8 | 6547.5 | 6654.9 | 6787.1 |
| 50° | 8777.1 | 8883.4 | 9265.3 | 9725.3 | 10024.7 | 9318.4 | 8020.0 | 7337.4 | 7438.0 | 7579.3 |
| 52.5° | 8231.3 | 8398.6 | 9065.3 | 9717.3 | 10263.2 | 10012.3 | 8850.6 | 8159.0 | 8272.0 | 8441.5 |
| 55° | 6389.3 | 6634.6 | 8478.8 | 9414.5 | 10178.4 | 10460.9 | 9640.5 | 9032.5 | 9177.2 | 9354.6 |
| 57.5° | 5503.4 | 5610.7 | 6730.6 | 8863.0 | 9791.9 | 10577.3 | 10307.2 | 9915.1 | 10147.9 | 10342.3 |
| 60° | 4946.2 | 5035.5 | 5697.7 | 8005.3 | 9283.4 | 10393.1 | 10822.5 | 10737.8 | 11140.1 | 11371.7 |
| 62.5° | 4349.6 | 4434.3 | 5036.7 | 6684.3 | 8632.5 | 10086.9 | 11148.0 | 11497.2 | 12157.1 | 12410.3 |
| 65° | 3757.4 | 3829.8 | 4407.2 | 5616.4 | 7805.3 | 9780.6 | 11316.4 | 12153.7 | 13098.5 | 13360.6 |
| 67.5° | 3097.5 | 3157.4 | 3703.2 | 4738.3 | 6799.5 | 9361.4 | 11400.0 | 12670.2 | 13917.8 | 14142.6 |
| 70° | 2235.2 | 2281.6 | 2845.5 | 3747.3 | 5537.3 | 8640.4 | 11366.1 | 13036.3 | 14342.7 | 14522.3 |
| 72.5° | 1056.6 | 1098.4 | 1760.6 | 2433.0 | 3911.1 | 7236.9 | 10680.1 | 12745.9 | 13911.0 | 13821.7 |
| 75° | 563.9 | 600.1 | 1011.4 | 1334.6 | 2065.7 | 4960.9 | 8739.8 | 10979.6 | 11681.4 | 11247.4 |
| 77.5° | 382.0 | 410.2 | 626.1 | 801.2 | 943.6 | 2355.0 | 5617.5 | 7601.9 | 7313.7 | 6597.3 |
| 80° | 302.9 | 332.2 | 513.0 | 542.4 | 456.5 | 850.9 | 2321.1 | 3519.0 | 2527.9 | 2021.7 |
| 82.5° | 232.8 | 265.6 | 431.7 | 393.3 | 248.6 | 349.2 | 675.8 | 1113.1 | 647.5 | 492.7 |
| 85° | 142.4 | 177.4 | 339.0 | 250.9 | 140.1 | 159.3 | 229.4 | 309.6 | 197.8 | 165.0 |
| 87.5° | 72.3 | 101.7 | 171.8 | 91.5 | 63.3 | 37.3 | 61.0 | 61.0 | 52.0 | 45.2 |
| 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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 CATALOG NUMBER: GALN-SB3C-850-U-T3R

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3078.3 | 0° | 3078.3 | 3078.3 | 3078.3 | 3078.3 | 3078.3 | 3078.3 | 3078.3 | 3078.3 | 3078.3 | 3078.3 |
| 3062.4 | 2.5° | 3089.6 | 3112.2 | 3150.6 | 3186.8 | 3215.0 | 3242.1 | 3269.2 | 3283.9 | 3288.5 | 3306.5 |
| 3079.4 | 5° | 3125.7 | 3167.5 | 3242.1 | 3312.2 | 3356.3 | 3383.4 | 3402.6 | 3413.9 | 3416.2 | 3421.8 |
| 3125.7 | 7.5° | 3192.4 | 3259.1 | 3363.0 | 3433.1 | 3465.9 | 3463.6 | 3455.7 | 3427.5 | 3416.2 | 3406.0 |
| 3193.5 | 10° | 3286.2 | 3374.3 | 3502.0 | 3550.6 | 3530.3 | 3476.0 | 3406.0 | 3323.5 | 3285.1 | 3247.8 |
| 3286.2 | 12.5° | 3402.6 | 3514.5 | 3639.9 | 3637.6 | 3537.1 | 3398.1 | 3235.3 | 3108.8 | 3028.5 | 2970.9 |
| 3400.3 | 15° | 3543.9 | 3672.7 | 3768.7 | 3691.9 | 3471.5 | 3221.8 | 2983.3 | 2818.4 | 2746.0 | 2682.7 |
| 3515.6 | 17.5° | 3689.6 | 3827.5 | 3871.6 | 3674.9 | 3306.5 | 2960.7 | 2690.7 | 2560.7 | 2489.5 | 2455.6 |
| 3639.9 | 20° | 3832.0 | 3968.8 | 3932.6 | 3577.8 | 3055.7 | 2664.7 | 2424.0 | 2352.8 | 2338.1 | 2346.0 |
| 3760.8 | 22.5° | 3982.3 | 4104.4 | 3945.0 | 3390.2 | 2735.9 | 2361.8 | 2229.6 | 2231.9 | 2264.6 | 2288.4 |
| 3887.4 | 25° | 4136.0 | 4218.5 | 3912.2 | 3119.0 | 2392.3 | 2139.2 | 2106.4 | 2142.6 | 2207.0 | 2253.3 |
| 4029.8 | 27.5° | 4284.0 | 4320.2 | 3841.1 | 2783.3 | 2097.4 | 1979.9 | 1985.5 | 2060.1 | 2157.3 | 2221.7 |
| 4202.7 | 30° | 4451.3 | 4410.6 | 3704.3 | 2405.9 | 1892.8 | 1843.1 | 1890.6 | 1977.6 | 2074.8 | 2132.4 |
| 4420.8 | 32.5° | 4640.0 | 4488.6 | 3487.3 | 2056.7 | 1748.2 | 1733.5 | 1811.5 | 1868.0 | 1910.9 | 1927.9 |
| 4710.1 | 35° | 4875.1 | 4598.2 | 3209.4 | 1811.5 | 1618.2 | 1653.3 | 1727.9 | 1699.6 | 1682.7 | 1673.6 |
| 5098.8 | 37.5° | 5180.2 | 4746.2 | 2883.9 | 1652.1 | 1513.1 | 1595.6 | 1626.1 | 1538.0 | 1471.3 | 1438.6 |
| 5570.0 | 40° | 5547.4 | 4963.2 | 2570.9 | 1529.0 | 1446.5 | 1545.9 | 1492.8 | 1386.6 | 1301.8 | 1255.5 |
| 6100.0 | 42.5° | 5955.4 | 5190.3 | 2307.6 | 1436.3 | 1409.2 | 1505.2 | 1394.5 | 1267.9 | 1131.2 | 1116.5 |
| 6731.7 | 45° | 6383.7 | 5424.3 | 2127.9 | 1365.1 | 1391.1 | 1470.2 | 1338.0 | 1133.4 | 1036.3 | 1096.2 |
| 7365.7 | 47.5° | 6812.0 | 5639.0 | 2019.4 | 1312.0 | 1382.1 | 1430.6 | 1288.3 | 1058.9 | 989.9 | 1076.9 |
| 8044.9 | 50° | 7288.9 | 5831.1 | 1970.8 | 1273.6 | 1371.9 | 1414.8 | 1213.7 | 1039.7 | 941.3 | 999.0 |
| 8747.8 | 52.5° | 7762.3 | 5980.2 | 1934.7 | 1235.1 | 1357.2 | 1402.4 | 1177.5 | 1017.0 | 882.6 | 886.0 |
| 9455.2 | 55° | 8234.7 | 6077.4 | 1895.1 | 1184.3 | 1324.4 | 1375.3 | 1174.1 | 992.2 | 838.5 | 822.7 |
| 10203.3 | 57.5° | 8738.7 | 6132.8 | 1846.5 | 1127.8 | 1267.9 | 1306.3 | 1170.7 | 973.0 | 824.9 | 798.9 |
| 10968.3 | 60° | 9251.8 | 6214.2 | 1783.2 | 1058.9 | 1192.2 | 1223.8 | 1162.8 | 966.2 | 817.0 | 773.0 |
| 11689.3 | 62.5° | 9711.7 | 6242.4 | 1707.5 | 993.3 | 1095.0 | 1142.5 | 1145.9 | 960.5 | 795.6 | 719.8 |
| 12288.2 | 65° | 10013.4 | 6120.4 | 1575.3 | 918.7 | 989.9 | 1058.9 | 1113.1 | 941.3 | 757.1 | 681.4 |
| 12584.3 | 67.5° | 10001.0 | 5772.3 | 1368.5 | 822.7 | 888.2 | 966.2 | 1065.6 | 908.6 | 710.8 | 634.0 |
| 12360.5 | 70° | 9535.4 | 5085.2 | 1106.3 | 710.8 | 776.3 | 866.8 | 1004.6 | 860.0 | 655.4 | 582.0 |
| 10990.9 | 72.5° | 8178.2 | 3980.1 | 803.5 | 579.7 | 646.4 | 763.9 | 925.5 | 801.2 | 598.9 | 535.6 |
| 8122.8 | 75° | 5842.4 | 2518.9 | 544.7 | 445.2 | 502.9 | 647.5 | 827.2 | 732.3 | 546.9 | 537.9 |
| 4068.2 | 77.5° | 2984.5 | 1203.5 | 360.5 | 325.5 | 350.3 | 510.8 | 695.0 | 654.3 | 554.9 | 444.1 |
| 1157.2 | 80° | 970.7 | 444.1 | 227.1 | 221.5 | 232.8 | 340.1 | 537.9 | 536.8 | 420.4 | 301.7 |
| 280.3 | 82.5° | 309.6 | 191.0 | 148.0 | 142.4 | 136.7 | 213.6 | 375.2 | 424.9 | 283.6 | 191.0 |
| 100.6 | 85° | 123.2 | 114.1 | 87.0 | 80.2 | 57.6 | 100.6 | 196.6 | 282.5 | 211.3 | 137.9 |
| 26.0 | 87.5° | 45.2 | 45.2 | 23.7 | 17.0 | 12.4 | 33.9 | 53.1 | 84.8 | 120.9 | 71.2 |
| 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> |
|-------------|
| 3078.3 |
| 3316.7 |
| 3430.8 |
| 3408.2 |
| 3236.5 |
| 2957.4 |
| 2676.0 |
| 2465.8 |
| 2342.6 |
| 2294.0 |
| 2265.8 |
| 2237.5 |
| 2146.0 |
| 1936.9 |
| 1682.7 |
| 1446.5 |
| 1258.9 |
| 1131.2 |
| 1127.8 |
| 1117.6 |
| 1041.9 |
| 909.7 |
| 834.0 |
| 802.3 |
| 776.3 |
| 719.8 |
| 681.4 |
| 637.4 |
| 588.8 |
| 532.3 |
| 507.4 |
| 395.5 |
| 266.7 |
| 189.8 |
| 141.3 |
| 70.1 |
| 0.0 |

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