

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: P953731

Luminaire Tested: **GALN-SB7A-940-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953731
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-SB7A-940-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23732 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

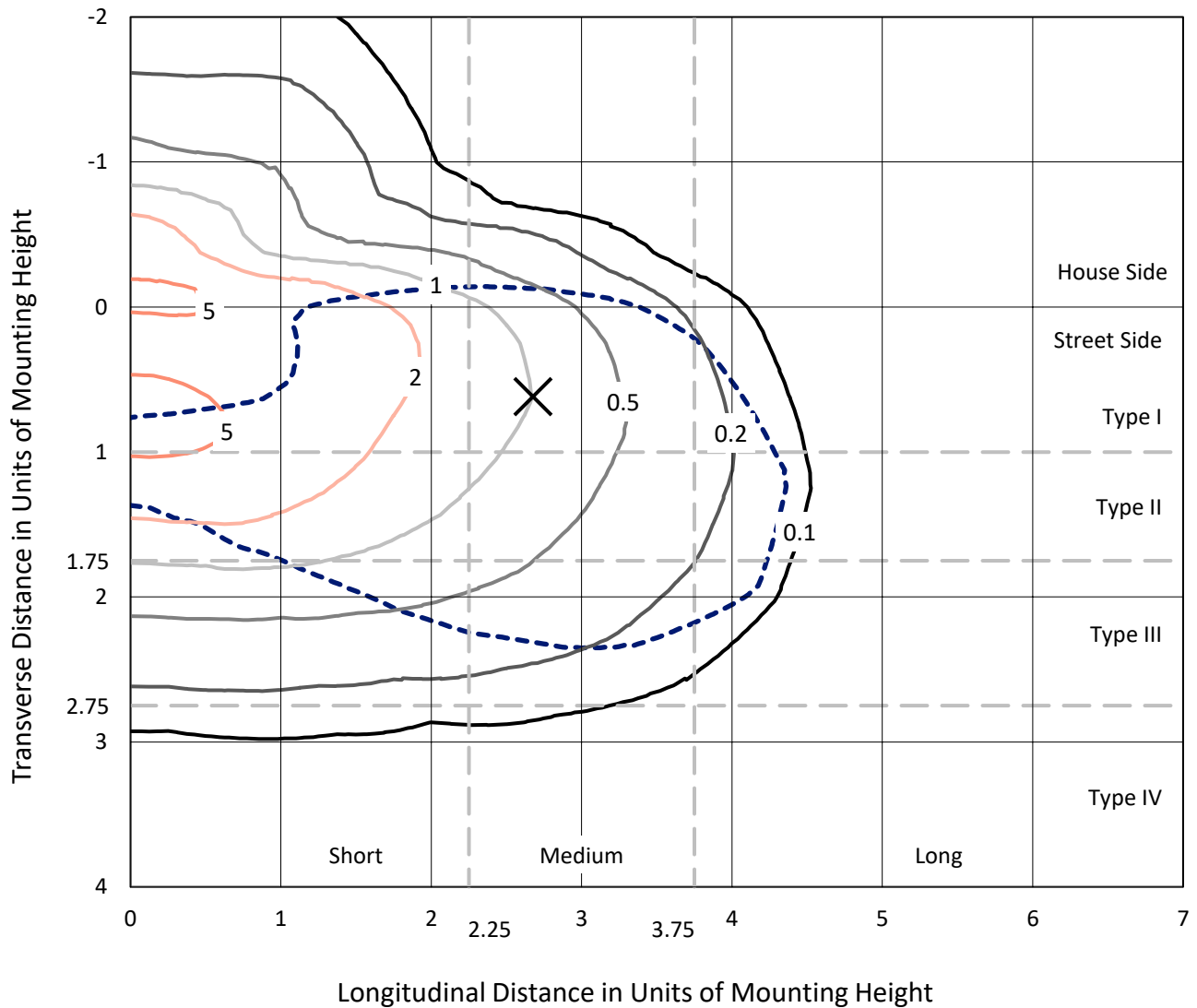
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

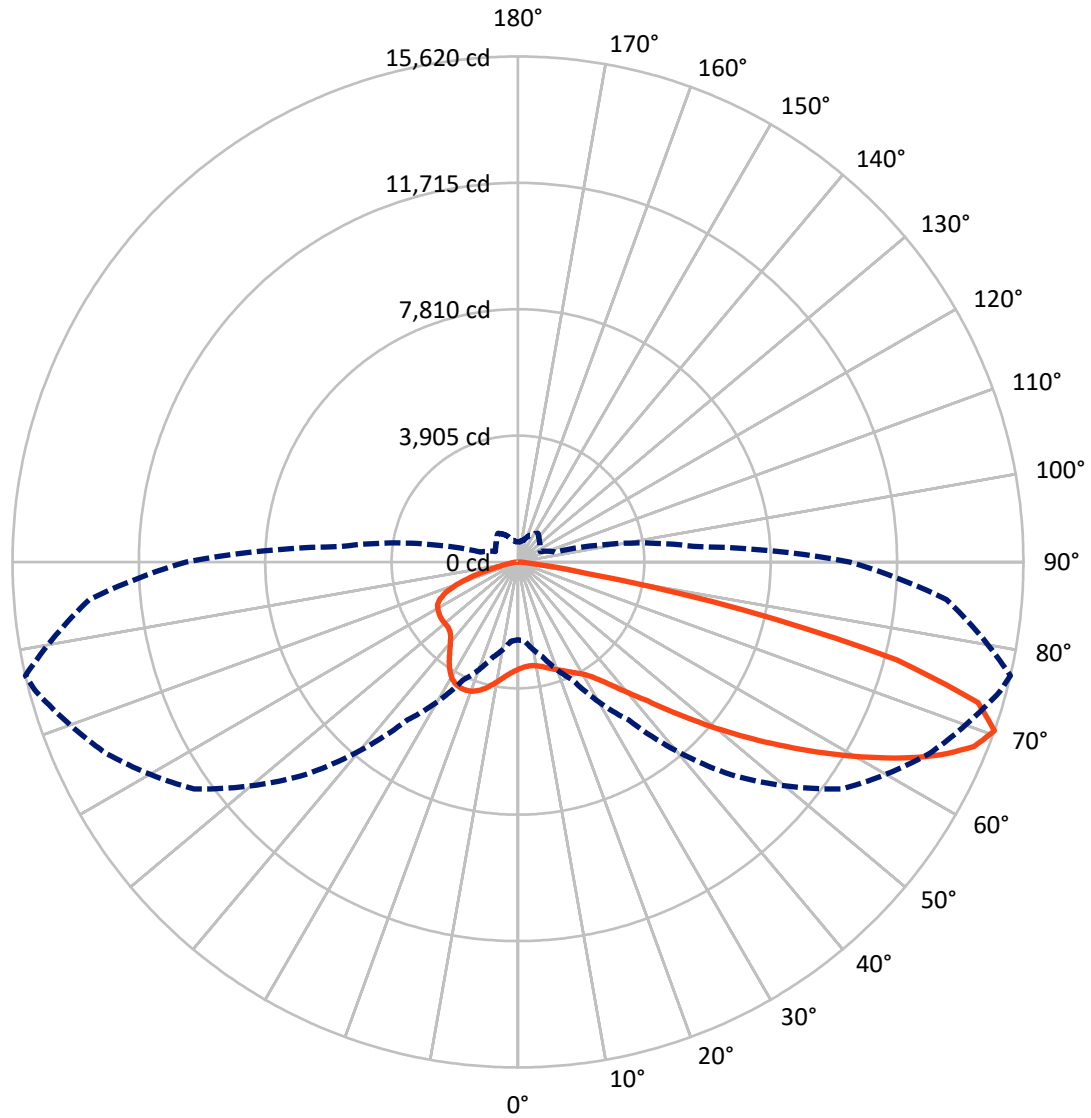
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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 | 5196.9 | 0.0 | 5196.9 |
| | % Fixture | 21.9 | 0.0 | 21.9 |
| Street Side | Lumens | 18535.1 | 0.0 | 18535.1 |
| | % Fixture | 78.1 | 0.0 | 78.1 |
| Total | Lumens | 23732.0 | 0.0 | 23732.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 315.8 | 1.3 |
| 10°-20° | 911.3 | 3.8 |
| 20°-30° | 1558.5 | 6.6 |
| 30°-40° | 2506.2 | 10.6 |
| 40°-50° | 3912.9 | 16.5 |
| 50°-60° | 5226.7 | 22.0 |
| 60°-70° | 5570.8 | 23.5 |
| 70°-80° | 3429.3 | 14.5 |
| 80°-90° | 300.5 | 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° | 23732.0 | 100.0 |
| 0°-180° | 23732.0 | 100.0 |



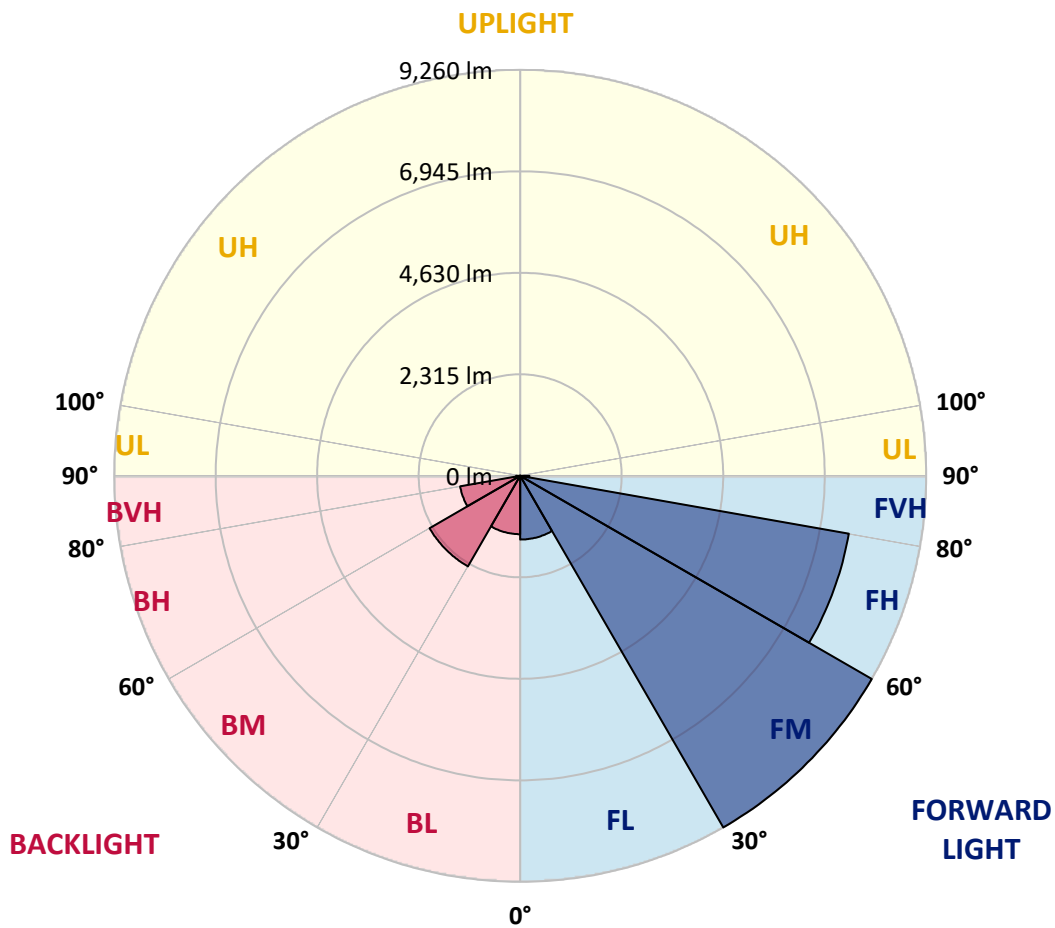
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1454.0 | 6.1 | | | |
| FM (30°-60°) | 9259.7 | 39.0 | | | |
| FH (60°-80°) | 7611.2 | 32.1 | | | G4/12000 |
| FVH (80°-90°) | 210.1 | 0.9 | | | G2/225 |
| BL (0°-30°) | 1331.6 | 5.6 | B3/2500 | | |
| BM (30°-60°) | 2386.0 | 10.1 | B2/2500 | | |
| BH (60°-80°) | 1388.9 | 5.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 90.4 | 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 III Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3310.8 | 3310.8 | 3310.8 | 3310.8 | 3310.8 | 3310.8 | 3310.8 | 3310.8 | 3310.8 | 3310.8 |
| 2.5° | 3051.9 | 3050.7 | 3066.5 | 3071.4 | 3100.6 | 3121.2 | 3160.1 | 3201.4 | 3254.9 | 3261.0 |
| 5° | 2875.7 | 2875.7 | 2893.9 | 2913.4 | 2951.1 | 2992.4 | 3051.9 | 3123.7 | 3216.0 | 3230.6 |
| 7.5° | 2726.2 | 2735.9 | 2751.7 | 2789.4 | 2833.2 | 2892.7 | 2983.9 | 3086.0 | 3207.5 | 3230.6 |
| 10° | 2605.9 | 2616.8 | 2636.3 | 2666.7 | 2732.3 | 2814.9 | 2934.0 | 3065.3 | 3228.2 | 3264.6 |
| 12.5° | 2568.2 | 2579.1 | 2590.1 | 2613.2 | 2673.9 | 2771.2 | 2913.4 | 3075.0 | 3278.0 | 3314.5 |
| 15° | 2655.7 | 2669.1 | 2660.6 | 2654.5 | 2686.1 | 2774.8 | 2923.1 | 3110.3 | 3340.0 | 3392.3 |
| 17.5° | 2857.5 | 2862.3 | 2842.9 | 2785.8 | 2780.9 | 2828.3 | 2969.3 | 3158.9 | 3417.8 | 3474.9 |
| 20° | 3183.2 | 3174.7 | 3134.6 | 3021.6 | 2957.1 | 2947.4 | 3048.3 | 3231.8 | 3498.0 | 3558.8 |
| 22.5° | 3625.6 | 3615.9 | 3535.7 | 3357.0 | 3213.6 | 3118.8 | 3162.5 | 3326.6 | 3587.9 | 3656.0 |
| 25° | 4177.4 | 4164.1 | 4046.2 | 3803.1 | 3580.7 | 3346.1 | 3318.1 | 3451.8 | 3698.6 | 3761.8 |
| 27.5° | 4821.6 | 4810.7 | 4683.1 | 4362.2 | 4041.3 | 3657.2 | 3511.4 | 3598.9 | 3814.0 | 3885.7 |
| 30° | 5514.4 | 5546.0 | 5319.9 | 4974.8 | 4568.8 | 4063.2 | 3771.5 | 3780.0 | 3963.5 | 4027.9 |
| 32.5° | 6328.7 | 6383.4 | 6111.2 | 5673.6 | 5119.4 | 4504.4 | 4099.6 | 4032.8 | 4181.1 | 4234.6 |
| 35° | 7135.8 | 7197.8 | 6971.7 | 6488.0 | 5849.9 | 5024.6 | 4442.4 | 4323.3 | 4470.4 | 4528.7 |
| 37.5° | 7833.4 | 7916.1 | 7799.4 | 7378.9 | 6631.4 | 5651.7 | 4889.7 | 4664.8 | 4826.5 | 4899.4 |
| 40° | 8384.0 | 8510.4 | 8501.9 | 8239.4 | 7552.7 | 6412.6 | 5457.3 | 5086.6 | 5268.9 | 5347.9 |
| 42.5° | 8831.3 | 8940.7 | 9035.5 | 9022.1 | 8514.1 | 7276.8 | 6124.6 | 5634.7 | 5773.3 | 5864.4 |
| 45° | 9140.0 | 9256.7 | 9460.9 | 9680.9 | 9439.0 | 8201.7 | 6889.1 | 6285.0 | 6411.4 | 6548.7 |
| 47.5° | 9415.9 | 9548.4 | 9813.4 | 10162.2 | 10224.2 | 9130.3 | 7726.5 | 7042.2 | 7157.7 | 7299.9 |
| 50° | 9440.2 | 9554.5 | 9965.3 | 10460.0 | 10782.1 | 10022.4 | 8625.9 | 7891.8 | 8000.0 | 8151.9 |
| 52.5° | 8853.2 | 9033.1 | 9750.2 | 10451.5 | 11038.5 | 10768.7 | 9519.2 | 8775.4 | 8896.9 | 9079.3 |
| 55° | 6872.0 | 7135.8 | 9119.4 | 10125.7 | 10947.4 | 11251.2 | 10368.8 | 9714.9 | 9870.5 | 10061.3 |
| 57.5° | 5919.1 | 6034.6 | 7239.1 | 9532.6 | 10531.7 | 11376.4 | 11085.9 | 10664.2 | 10914.6 | 11123.6 |
| 60° | 5319.9 | 5416.0 | 6128.2 | 8610.1 | 9984.8 | 11178.3 | 11640.2 | 11549.0 | 11981.7 | 12230.9 |
| 62.5° | 4678.2 | 4769.3 | 5417.2 | 7189.3 | 9284.7 | 10848.9 | 11990.2 | 12365.8 | 13075.6 | 13347.8 |
| 65° | 4041.3 | 4119.1 | 4740.2 | 6040.7 | 8395.0 | 10519.5 | 12171.3 | 13071.9 | 14088.0 | 14370.0 |
| 67.5° | 3331.5 | 3395.9 | 3983.0 | 5096.3 | 7313.2 | 10068.6 | 12261.3 | 13627.4 | 14969.2 | 15211.1 |
| 70° | 2404.1 | 2454.0 | 3060.5 | 4030.4 | 5955.6 | 9293.2 | 12224.8 | 14021.2 | 15426.2 | 15619.5 |
| 72.5° | 1136.4 | 1181.4 | 1893.6 | 2616.8 | 4206.6 | 7783.6 | 11487.0 | 13708.8 | 14961.9 | 14865.9 |
| 75° | 606.5 | 645.4 | 1087.8 | 1435.4 | 2221.8 | 5335.7 | 9400.1 | 11809.1 | 12563.9 | 12097.2 |
| 77.5° | 410.8 | 441.2 | 673.3 | 861.7 | 1014.9 | 2533.0 | 6041.9 | 8176.2 | 7866.3 | 7095.7 |
| 80° | 325.7 | 357.3 | 551.8 | 583.4 | 491.0 | 915.2 | 2496.5 | 3784.8 | 2718.9 | 2174.4 |
| 82.5° | 250.4 | 285.6 | 464.3 | 423.0 | 267.4 | 375.6 | 726.8 | 1197.2 | 696.4 | 529.9 |
| 85° | 153.1 | 190.8 | 364.6 | 269.8 | 150.7 | 171.4 | 246.7 | 333.0 | 212.7 | 177.5 |
| 87.5° | 77.8 | 109.4 | 184.7 | 98.4 | 68.1 | 40.1 | 65.6 | 65.6 | 55.9 | 48.6 |
| 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-SB7A-940-U-T3R

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3310.8 | 0° | 3310.8 | 3310.8 | 3310.8 | 3310.8 | 3310.8 | 3310.8 | 3310.8 | 3310.8 | 3310.8 | 3310.8 |
| 3293.8 | 2.5° | 3323.0 | 3347.3 | 3388.6 | 3427.5 | 3457.9 | 3487.1 | 3516.2 | 3532.0 | 3536.9 | 3556.3 |
| 3312.0 | 5° | 3361.9 | 3406.8 | 3487.1 | 3562.4 | 3609.8 | 3639.0 | 3659.7 | 3671.8 | 3674.2 | 3680.3 |
| 3361.9 | 7.5° | 3433.6 | 3505.3 | 3617.1 | 3692.5 | 3727.7 | 3725.3 | 3716.8 | 3686.4 | 3674.2 | 3663.3 |
| 3434.8 | 10° | 3534.5 | 3629.3 | 3766.6 | 3818.9 | 3797.0 | 3738.7 | 3663.3 | 3574.6 | 3533.3 | 3493.1 |
| 3534.5 | 12.5° | 3659.7 | 3780.0 | 3914.9 | 3912.5 | 3804.3 | 3654.8 | 3479.8 | 3343.6 | 3257.4 | 3195.4 |
| 3657.2 | 15° | 3811.6 | 3950.1 | 4053.5 | 3970.8 | 3733.8 | 3465.2 | 3208.7 | 3031.3 | 2953.5 | 2885.4 |
| 3781.2 | 17.5° | 3968.4 | 4116.7 | 4164.1 | 3952.6 | 3556.3 | 3184.4 | 2893.9 | 2754.2 | 2677.6 | 2641.1 |
| 3914.9 | 20° | 4121.5 | 4268.6 | 4229.7 | 3848.1 | 3286.5 | 2866.0 | 2607.1 | 2530.5 | 2514.7 | 2523.2 |
| 4045.0 | 22.5° | 4283.2 | 4414.4 | 4243.1 | 3646.3 | 2942.6 | 2540.2 | 2398.0 | 2400.5 | 2435.7 | 2461.2 |
| 4181.1 | 25° | 4448.5 | 4537.2 | 4207.8 | 3354.6 | 2573.1 | 2300.8 | 2265.6 | 2304.5 | 2373.7 | 2423.6 |
| 4334.2 | 27.5° | 4607.7 | 4646.6 | 4131.2 | 2993.6 | 2255.8 | 2129.4 | 2135.5 | 2215.7 | 2320.3 | 2389.5 |
| 4520.2 | 30° | 4787.6 | 4743.8 | 3984.2 | 2587.6 | 2035.8 | 1982.4 | 2033.4 | 2127.0 | 2231.5 | 2293.5 |
| 4754.8 | 32.5° | 4990.6 | 4827.7 | 3750.8 | 2212.1 | 1880.3 | 1864.5 | 1948.3 | 2009.1 | 2055.3 | 2073.5 |
| 5065.9 | 35° | 5243.4 | 4945.6 | 3451.8 | 1948.3 | 1740.5 | 1778.2 | 1858.4 | 1828.0 | 1809.8 | 1800.1 |
| 5484.0 | 37.5° | 5571.5 | 5104.8 | 3101.8 | 1777.0 | 1627.5 | 1716.2 | 1749.0 | 1654.2 | 1582.5 | 1547.2 |
| 5990.9 | 40° | 5966.5 | 5338.2 | 2765.1 | 1644.5 | 1555.8 | 1662.7 | 1605.6 | 1491.3 | 1400.2 | 1350.3 |
| 6560.9 | 42.5° | 6405.3 | 5582.5 | 2481.9 | 1544.8 | 1515.6 | 1619.0 | 1499.8 | 1363.7 | 1216.6 | 1200.8 |
| 7240.3 | 45° | 6866.0 | 5834.1 | 2288.7 | 1468.2 | 1496.2 | 1581.3 | 1439.1 | 1219.1 | 1114.5 | 1179.0 |
| 7922.2 | 47.5° | 7326.6 | 6065.0 | 2172.0 | 1411.1 | 1486.5 | 1538.7 | 1385.6 | 1138.9 | 1064.7 | 1158.3 |
| 8652.6 | 50° | 7839.5 | 6271.6 | 2119.7 | 1369.8 | 1475.5 | 1521.7 | 1305.4 | 1118.2 | 1012.5 | 1074.4 |
| 9408.6 | 52.5° | 8348.8 | 6432.1 | 2080.8 | 1328.5 | 1459.7 | 1508.3 | 1266.5 | 1093.9 | 949.3 | 952.9 |
| 10169.5 | 55° | 8856.8 | 6536.6 | 2038.3 | 1273.8 | 1424.5 | 1479.2 | 1262.8 | 1067.1 | 901.8 | 884.8 |
| 10974.1 | 57.5° | 9398.9 | 6596.1 | 1986.0 | 1213.0 | 1363.7 | 1405.0 | 1259.2 | 1046.5 | 887.3 | 859.3 |
| 11797.0 | 60° | 9950.7 | 6683.6 | 1917.9 | 1138.9 | 1282.3 | 1316.3 | 1250.7 | 1039.2 | 878.8 | 831.4 |
| 12572.4 | 62.5° | 10445.4 | 6714.0 | 1836.5 | 1068.4 | 1177.8 | 1228.8 | 1232.4 | 1033.1 | 855.7 | 774.2 |
| 13216.6 | 65° | 10769.9 | 6582.8 | 1694.3 | 988.1 | 1064.7 | 1138.9 | 1197.2 | 1012.5 | 814.3 | 732.9 |
| 13535.0 | 67.5° | 10756.6 | 6208.4 | 1471.9 | 884.8 | 955.3 | 1039.2 | 1146.2 | 977.2 | 764.5 | 681.9 |
| 13294.4 | 70° | 10255.8 | 5469.4 | 1189.9 | 764.5 | 835.0 | 932.2 | 1080.5 | 924.9 | 704.9 | 625.9 |
| 11821.3 | 72.5° | 8796.1 | 4280.7 | 864.2 | 623.5 | 695.2 | 821.6 | 995.4 | 861.7 | 644.2 | 576.1 |
| 8736.5 | 75° | 6283.8 | 2709.2 | 585.8 | 478.9 | 540.9 | 696.4 | 889.7 | 787.6 | 588.3 | 578.5 |
| 4375.5 | 77.5° | 3209.9 | 1294.4 | 387.7 | 350.0 | 376.8 | 549.4 | 747.5 | 703.7 | 596.8 | 477.7 |
| 1244.6 | 80° | 1044.1 | 477.7 | 244.3 | 238.2 | 250.4 | 365.8 | 578.5 | 577.3 | 452.1 | 324.5 |
| 301.4 | 82.5° | 333.0 | 205.4 | 159.2 | 153.1 | 147.1 | 229.7 | 403.5 | 457.0 | 305.1 | 205.4 |
| 108.2 | 85° | 132.5 | 122.8 | 93.6 | 86.3 | 62.0 | 108.2 | 211.5 | 303.9 | 227.3 | 148.3 |
| 28.0 | 87.5° | 48.6 | 48.6 | 25.5 | 18.2 | 13.4 | 36.5 | 57.1 | 91.2 | 130.1 | 76.6 |
| 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> |
|-------------|
| 3310.8 |
| 3567.3 |
| 3690.0 |
| 3665.7 |
| 3481.0 |
| 3180.8 |
| 2878.1 |
| 2652.1 |
| 2519.6 |
| 2467.3 |
| 2436.9 |
| 2406.6 |
| 2308.1 |
| 2083.2 |
| 1809.8 |
| 1555.8 |
| 1354.0 |
| 1216.6 |
| 1213.0 |
| 1202.1 |
| 1120.6 |
| 978.4 |
| 897.0 |
| 863.0 |
| 835.0 |
| 774.2 |
| 732.9 |
| 685.5 |
| 633.2 |
| 572.5 |
| 545.7 |
| 425.4 |
| 286.8 |
| 204.2 |
| 151.9 |
| 75.4 |
| 0.0 |

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