

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: P951526

Luminaire Tested: **GALN-SB5C-927-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951526
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-SB5C-927-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23640 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

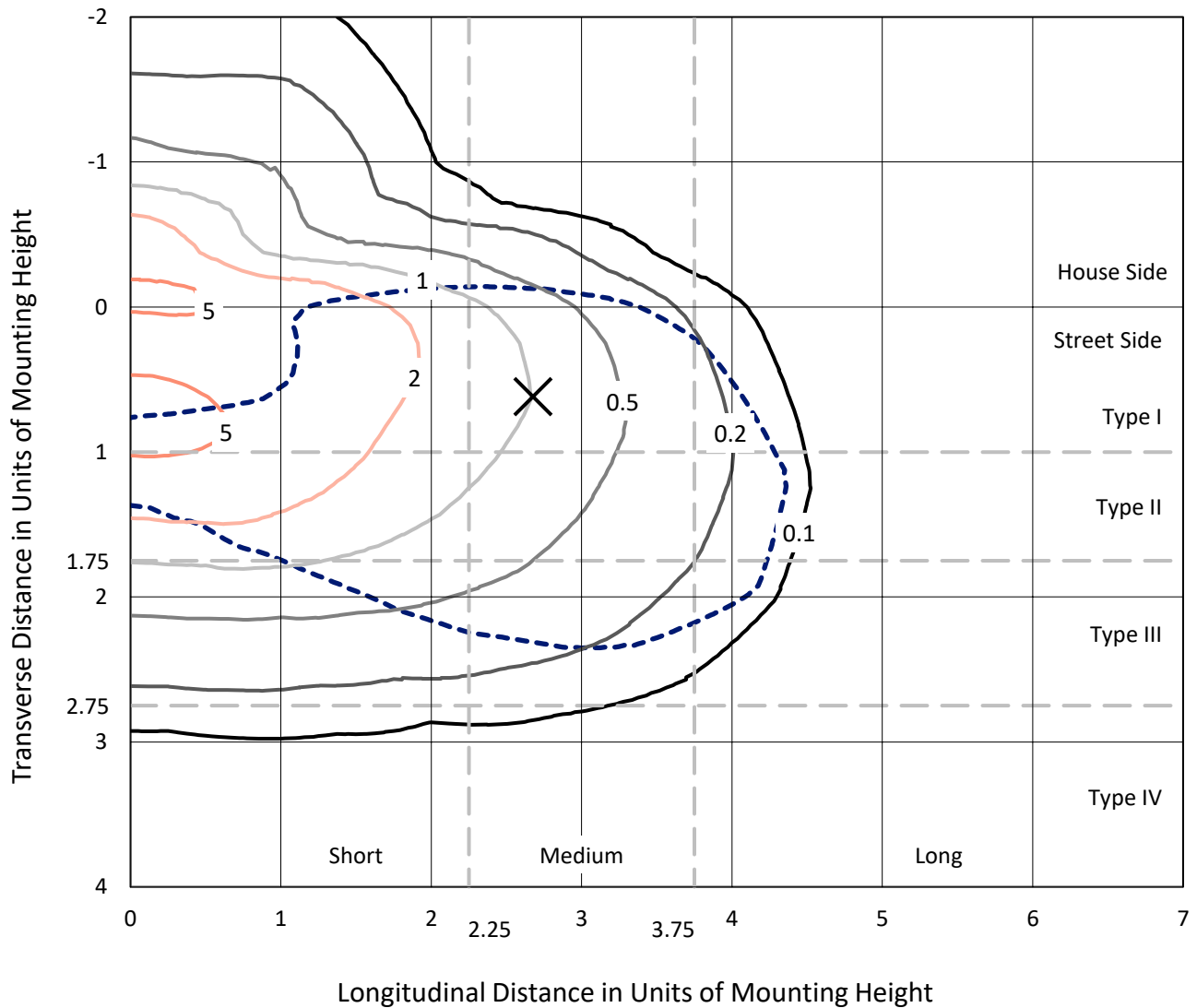
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

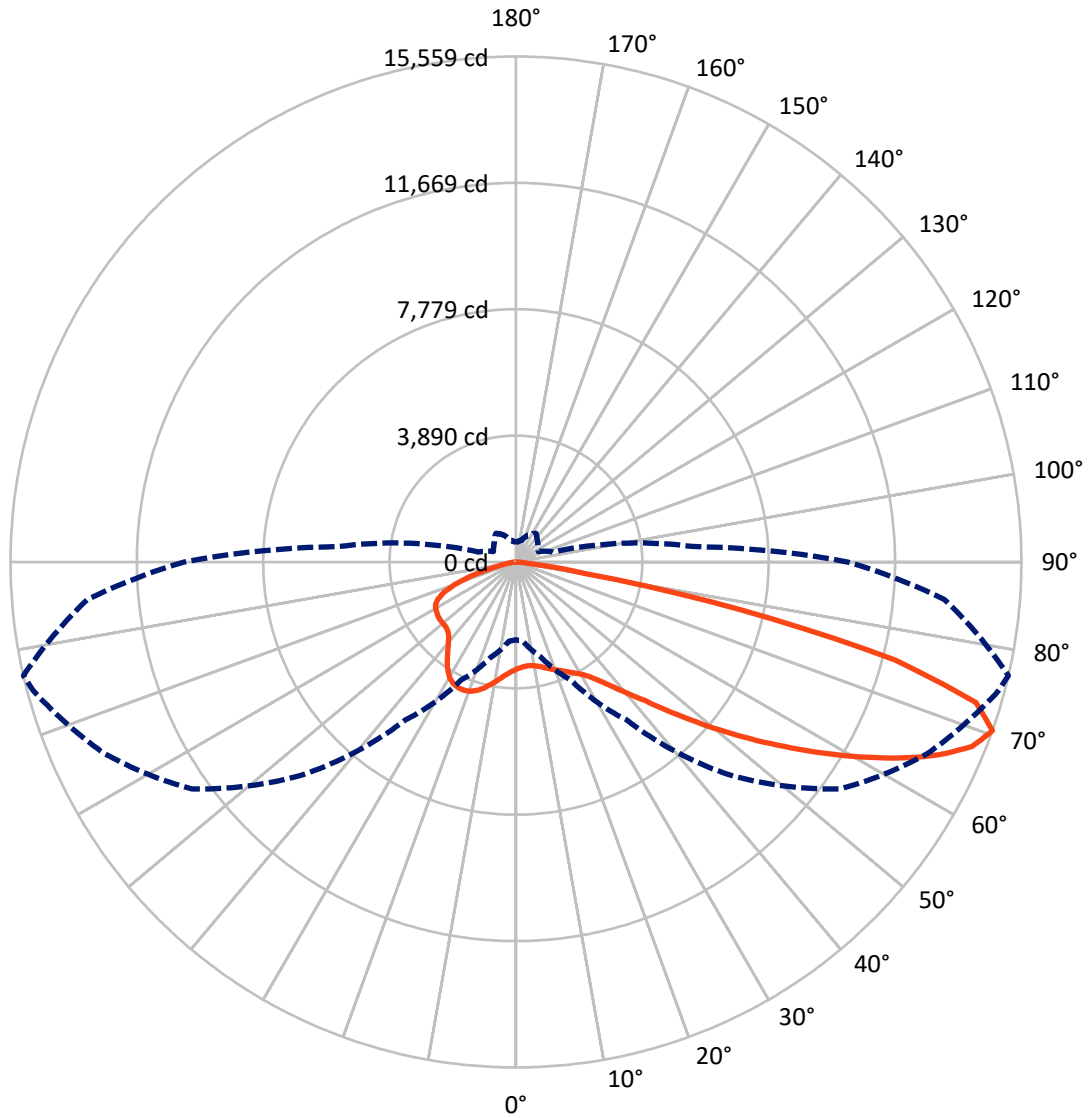
✕ Max cd
 - - - 1/2 Max cd



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 | 5176.8 | 0.0 | 5176.8 |
| | % Fixture | 21.9 | 0.0 | 21.9 |
| Street Side | Lumens | 18463.2 | 0.0 | 18463.2 |
| | % Fixture | 78.1 | 0.0 | 78.1 |
| Total | Lumens | 23640.0 | 0.0 | 23640.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 314.5 | 1.3 |
| 10°-20° | 907.8 | 3.8 |
| 20°-30° | 1552.5 | 6.6 |
| 30°-40° | 2496.5 | 10.6 |
| 40°-50° | 3897.7 | 16.5 |
| 50°-60° | 5206.4 | 22.0 |
| 60°-70° | 5549.2 | 23.5 |
| 70°-80° | 3416.1 | 14.5 |
| 80°-90° | 299.3 | 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° | 23640.0 | 100.0 |
| 0°-180° | 23640.0 | 100.0 |

Coefficient of Utilization



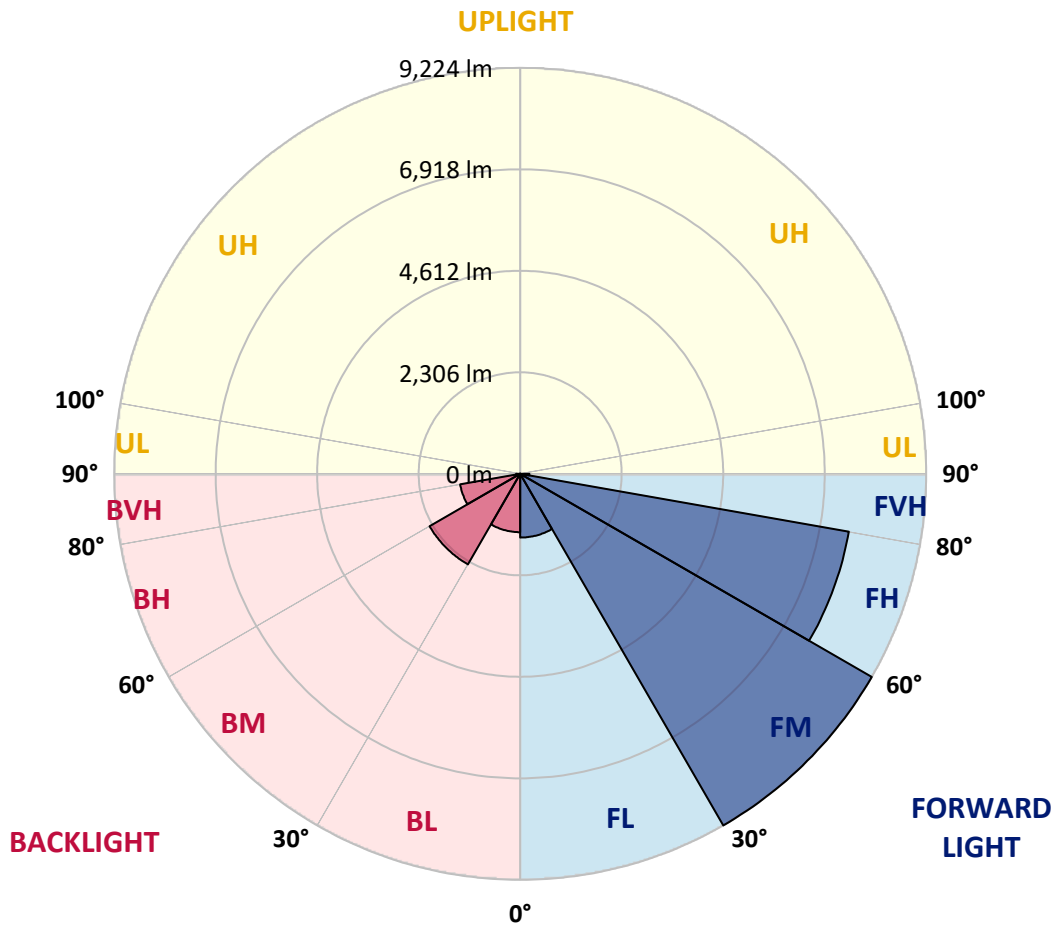
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1448.3 | 6.1 | | | |
| FM (30°-60°) | 9223.8 | 39.0 | | | |
| FH (60°-80°) | 7581.7 | 32.1 | | | G4/12000 |
| FVH (80°-90°) | 209.3 | 0.9 | | | G2/225 |
| BL (0°-30°) | 1326.5 | 5.6 | B3/2500 | | |
| BM (30°-60°) | 2376.8 | 10.1 | B2/2500 | | |
| BH (60°-80°) | 1383.5 | 5.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 90.0 | 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-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3298.0 | 3298.0 | 3298.0 | 3298.0 | 3298.0 | 3298.0 | 3298.0 | 3298.0 | 3298.0 | 3298.0 |
| 2.5° | 3040.1 | 3038.9 | 3054.6 | 3059.5 | 3088.5 | 3109.1 | 3147.9 | 3189.0 | 3242.3 | 3248.4 |
| 5° | 2864.6 | 2864.6 | 2882.7 | 2902.1 | 2939.6 | 2980.8 | 3040.1 | 3111.5 | 3203.6 | 3218.1 |
| 7.5° | 2715.6 | 2725.3 | 2741.1 | 2778.6 | 2822.2 | 2881.5 | 2972.3 | 3074.0 | 3195.1 | 3218.1 |
| 10° | 2595.8 | 2606.7 | 2626.0 | 2656.3 | 2721.7 | 2804.0 | 2922.7 | 3053.4 | 3215.7 | 3252.0 |
| 12.5° | 2558.2 | 2569.1 | 2580.0 | 2603.0 | 2663.6 | 2760.4 | 2902.1 | 3063.1 | 3265.3 | 3301.6 |
| 15° | 2645.4 | 2658.7 | 2650.3 | 2644.2 | 2675.7 | 2764.1 | 2911.8 | 3098.2 | 3327.1 | 3379.1 |
| 17.5° | 2846.4 | 2851.2 | 2831.9 | 2775.0 | 2770.1 | 2817.3 | 2957.8 | 3146.7 | 3404.5 | 3461.4 |
| 20° | 3170.9 | 3162.4 | 3122.4 | 3009.8 | 2945.7 | 2936.0 | 3036.5 | 3219.3 | 3484.4 | 3545.0 |
| 22.5° | 3611.6 | 3601.9 | 3522.0 | 3344.0 | 3201.1 | 3106.7 | 3150.3 | 3313.7 | 3574.0 | 3641.8 |
| 25° | 4161.2 | 4147.9 | 4030.5 | 3788.3 | 3566.8 | 3333.1 | 3305.3 | 3438.4 | 3684.2 | 3747.2 |
| 27.5° | 4802.9 | 4792.0 | 4664.9 | 4345.3 | 4025.6 | 3643.1 | 3497.8 | 3584.9 | 3799.2 | 3870.7 |
| 30° | 5493.0 | 5524.5 | 5299.3 | 4955.5 | 4551.1 | 4047.4 | 3756.9 | 3765.3 | 3948.2 | 4012.3 |
| 32.5° | 6304.2 | 6358.7 | 6087.5 | 5651.6 | 5099.5 | 4486.9 | 4083.8 | 4017.2 | 4164.9 | 4218.1 |
| 35° | 7108.1 | 7169.9 | 6944.7 | 6462.8 | 5827.2 | 5005.1 | 4425.2 | 4306.5 | 4453.0 | 4511.1 |
| 37.5° | 7803.1 | 7885.4 | 7769.2 | 7350.3 | 6605.7 | 5629.8 | 4870.7 | 4646.7 | 4807.8 | 4880.4 |
| 40° | 8351.5 | 8477.4 | 8469.0 | 8207.5 | 7523.4 | 6387.7 | 5436.1 | 5066.9 | 5248.5 | 5327.2 |
| 42.5° | 8797.1 | 8906.0 | 9000.5 | 8987.2 | 8481.1 | 7248.6 | 6100.8 | 5612.9 | 5750.9 | 5841.7 |
| 45° | 9104.6 | 9220.8 | 9424.2 | 9643.4 | 9402.4 | 8169.9 | 6862.3 | 6260.6 | 6386.5 | 6523.3 |
| 47.5° | 9379.4 | 9511.4 | 9775.3 | 10122.8 | 10184.6 | 9094.9 | 7696.5 | 7014.9 | 7129.9 | 7271.6 |
| 50° | 9403.6 | 9517.5 | 9926.7 | 10419.4 | 10740.3 | 9983.6 | 8592.5 | 7861.2 | 7968.9 | 8120.3 |
| 52.5° | 8818.9 | 8998.1 | 9712.4 | 10411.0 | 10995.7 | 10727.0 | 9482.3 | 8741.4 | 8862.5 | 9044.1 |
| 55° | 6845.4 | 7108.1 | 9084.0 | 10086.5 | 10904.9 | 11207.6 | 10328.6 | 9677.3 | 9832.2 | 10022.3 |
| 57.5° | 5896.2 | 6011.2 | 7211.0 | 9495.7 | 10490.9 | 11332.3 | 11043.0 | 10622.8 | 10872.2 | 11080.5 |
| 60° | 5299.3 | 5395.0 | 6104.4 | 8576.7 | 9946.0 | 11135.0 | 11595.0 | 11504.2 | 11935.3 | 12183.5 |
| 62.5° | 4660.1 | 4750.9 | 5396.2 | 7161.4 | 9248.7 | 10806.9 | 11943.7 | 12317.8 | 13024.9 | 13296.1 |
| 65° | 4025.6 | 4103.1 | 4721.8 | 6017.3 | 8362.4 | 10478.8 | 12124.1 | 13021.3 | 14033.4 | 14314.3 |
| 67.5° | 3318.6 | 3382.7 | 3967.5 | 5076.5 | 7284.9 | 10029.6 | 12213.7 | 13574.6 | 14911.2 | 15152.1 |
| 70° | 2394.8 | 2444.4 | 3048.6 | 4014.7 | 5932.5 | 9257.1 | 12177.4 | 13966.8 | 15366.4 | 15558.9 |
| 72.5° | 1132.0 | 1176.8 | 1886.3 | 2606.7 | 4190.3 | 7753.4 | 11442.5 | 13655.7 | 14903.9 | 14808.3 |
| 75° | 604.1 | 642.9 | 1083.6 | 1429.9 | 2213.2 | 5315.1 | 9363.7 | 11763.3 | 12515.2 | 12050.3 |
| 77.5° | 409.2 | 439.5 | 670.7 | 858.4 | 1010.9 | 2523.1 | 6018.5 | 8144.5 | 7835.8 | 7068.2 |
| 80° | 324.5 | 356.0 | 549.7 | 581.1 | 489.1 | 911.7 | 2486.8 | 3770.2 | 2708.4 | 2166.0 |
| 82.5° | 249.4 | 284.5 | 462.5 | 421.3 | 266.4 | 374.1 | 724.0 | 1192.6 | 693.7 | 527.9 |
| 85° | 152.6 | 190.1 | 363.2 | 268.8 | 150.1 | 170.7 | 245.8 | 331.7 | 211.9 | 176.8 |
| 87.5° | 77.5 | 109.0 | 184.0 | 98.1 | 67.8 | 40.0 | 65.4 | 65.4 | 55.7 | 48.4 |
| 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-SB5C-927-U-T3R

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3298.0 | 0° | 3298.0 | 3298.0 | 3298.0 | 3298.0 | 3298.0 | 3298.0 | 3298.0 | 3298.0 | 3298.0 | 3298.0 |
| 3281.0 | 2.5° | 3310.1 | 3334.3 | 3375.5 | 3414.2 | 3444.5 | 3473.5 | 3502.6 | 3518.3 | 3523.2 | 3542.6 |
| 3299.2 | 5° | 3348.8 | 3393.6 | 3473.5 | 3548.6 | 3595.8 | 3624.9 | 3645.5 | 3657.6 | 3660.0 | 3666.1 |
| 3348.8 | 7.5° | 3420.3 | 3491.7 | 3603.1 | 3678.2 | 3713.3 | 3710.9 | 3702.4 | 3672.1 | 3660.0 | 3649.1 |
| 3421.5 | 10° | 3520.8 | 3615.2 | 3752.0 | 3804.1 | 3782.3 | 3724.2 | 3649.1 | 3560.7 | 3519.6 | 3479.6 |
| 3520.8 | 12.5° | 3645.5 | 3765.3 | 3899.7 | 3897.3 | 3789.5 | 3640.6 | 3466.3 | 3330.7 | 3244.7 | 3183.0 |
| 3643.1 | 15° | 3796.8 | 3934.8 | 4037.7 | 3955.4 | 3719.3 | 3451.8 | 3196.3 | 3019.5 | 2942.0 | 2874.2 |
| 3766.5 | 17.5° | 3953.0 | 4100.7 | 4147.9 | 3937.3 | 3542.6 | 3172.1 | 2882.7 | 2743.5 | 2667.2 | 2630.9 |
| 3899.7 | 20° | 4105.5 | 4252.0 | 4213.3 | 3833.1 | 3273.8 | 2854.9 | 2597.0 | 2520.7 | 2505.0 | 2513.5 |
| 4029.3 | 22.5° | 4266.6 | 4397.3 | 4226.6 | 3632.2 | 2931.1 | 2530.4 | 2388.7 | 2391.2 | 2426.3 | 2451.7 |
| 4164.9 | 25° | 4431.2 | 4519.6 | 4191.5 | 3341.6 | 2563.1 | 2291.9 | 2256.8 | 2295.5 | 2364.5 | 2414.2 |
| 4317.4 | 27.5° | 4589.8 | 4628.6 | 4115.2 | 2982.0 | 2247.1 | 2121.2 | 2127.2 | 2207.1 | 2311.3 | 2380.3 |
| 4502.7 | 30° | 4769.0 | 4725.4 | 3968.7 | 2577.6 | 2028.0 | 1974.7 | 2025.5 | 2118.8 | 2222.9 | 2284.6 |
| 4736.3 | 32.5° | 4971.2 | 4809.0 | 3736.3 | 2203.5 | 1873.0 | 1857.2 | 1940.8 | 2001.3 | 2047.3 | 2065.5 |
| 5046.3 | 35° | 5223.0 | 4926.4 | 3438.4 | 1940.8 | 1733.7 | 1771.3 | 1851.2 | 1820.9 | 1802.8 | 1793.1 |
| 5462.8 | 37.5° | 5549.9 | 5085.0 | 3089.8 | 1770.1 | 1621.2 | 1709.5 | 1742.2 | 1647.8 | 1576.4 | 1541.2 |
| 5967.6 | 40° | 5943.4 | 5317.5 | 2754.4 | 1638.1 | 1549.7 | 1656.3 | 1599.4 | 1485.6 | 1394.7 | 1345.1 |
| 6535.5 | 42.5° | 6380.5 | 5560.8 | 2472.3 | 1538.8 | 1509.8 | 1612.7 | 1494.0 | 1358.4 | 1211.9 | 1196.2 |
| 7212.2 | 45° | 6839.3 | 5811.4 | 2279.8 | 1462.5 | 1490.4 | 1575.1 | 1433.5 | 1214.4 | 1110.2 | 1174.4 |
| 7891.5 | 47.5° | 7298.2 | 6041.5 | 2163.6 | 1405.6 | 1480.7 | 1532.8 | 1380.2 | 1134.4 | 1060.6 | 1153.8 |
| 8619.1 | 50° | 7809.1 | 6247.3 | 2111.5 | 1364.5 | 1469.8 | 1515.8 | 1300.3 | 1113.9 | 1008.5 | 1070.3 |
| 9372.2 | 52.5° | 8316.4 | 6407.1 | 2072.7 | 1323.3 | 1454.1 | 1502.5 | 1261.6 | 1089.6 | 945.6 | 949.2 |
| 10130.1 | 55° | 8822.5 | 6511.2 | 2030.4 | 1268.8 | 1419.0 | 1473.4 | 1257.9 | 1063.0 | 898.4 | 881.4 |
| 10931.6 | 57.5° | 9362.5 | 6570.6 | 1978.3 | 1208.3 | 1358.4 | 1399.6 | 1254.3 | 1042.4 | 883.8 | 856.0 |
| 11751.2 | 60° | 9912.1 | 6657.7 | 1910.5 | 1134.4 | 1277.3 | 1311.2 | 1245.8 | 1035.2 | 875.3 | 828.1 |
| 12523.7 | 62.5° | 10404.9 | 6688.0 | 1829.4 | 1064.2 | 1173.2 | 1224.0 | 1227.7 | 1029.1 | 852.3 | 771.2 |
| 13165.3 | 65° | 10728.2 | 6557.2 | 1687.7 | 984.3 | 1060.6 | 1134.4 | 1192.6 | 1008.5 | 811.2 | 730.1 |
| 13482.6 | 67.5° | 10714.9 | 6184.3 | 1466.2 | 881.4 | 951.6 | 1035.2 | 1141.7 | 973.4 | 761.5 | 679.2 |
| 13242.8 | 70° | 10216.0 | 5448.2 | 1185.3 | 761.5 | 831.8 | 928.6 | 1076.3 | 921.4 | 702.2 | 623.5 |
| 11775.4 | 72.5° | 8762.0 | 4264.1 | 860.8 | 621.1 | 692.5 | 818.4 | 991.6 | 858.4 | 641.7 | 573.9 |
| 8702.6 | 75° | 6259.4 | 2698.7 | 583.6 | 477.0 | 538.8 | 693.7 | 886.2 | 784.5 | 586.0 | 576.3 |
| 4358.6 | 77.5° | 3197.5 | 1289.4 | 386.2 | 348.7 | 375.3 | 547.2 | 744.6 | 701.0 | 594.5 | 475.8 |
| 1239.8 | 80° | 1040.0 | 475.8 | 243.4 | 237.3 | 249.4 | 364.4 | 576.3 | 575.1 | 450.4 | 323.3 |
| 300.3 | 82.5° | 331.7 | 204.6 | 158.6 | 152.6 | 146.5 | 228.8 | 402.0 | 455.2 | 303.9 | 204.6 |
| 107.8 | 85° | 132.0 | 122.3 | 93.2 | 86.0 | 61.7 | 107.8 | 210.7 | 302.7 | 226.4 | 147.7 |
| 27.8 | 87.5° | 48.4 | 48.4 | 25.4 | 18.2 | 13.3 | 36.3 | 56.9 | 90.8 | 129.5 | 76.3 |
| 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> |
|-------------|
| 3298.0 |
| 3553.5 |
| 3675.7 |
| 3651.5 |
| 3467.5 |
| 3168.4 |
| 2867.0 |
| 2641.8 |
| 2509.8 |
| 2457.8 |
| 2427.5 |
| 2397.2 |
| 2299.2 |
| 2075.2 |
| 1802.8 |
| 1549.7 |
| 1348.7 |
| 1211.9 |
| 1208.3 |
| 1197.4 |
| 1116.3 |
| 974.6 |
| 893.5 |
| 859.6 |
| 831.8 |
| 771.2 |
| 730.1 |
| 682.8 |
| 630.8 |
| 570.2 |
| 543.6 |
| 423.8 |
| 285.7 |
| 203.4 |
| 151.3 |
| 75.1 |
| 0.0 |

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