

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: P947431

Luminaire Tested: **GALN-SB2D-740-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947431
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-SB2D-740-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22103 lumens
Efficiency: N/A
Efficacy: 149.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

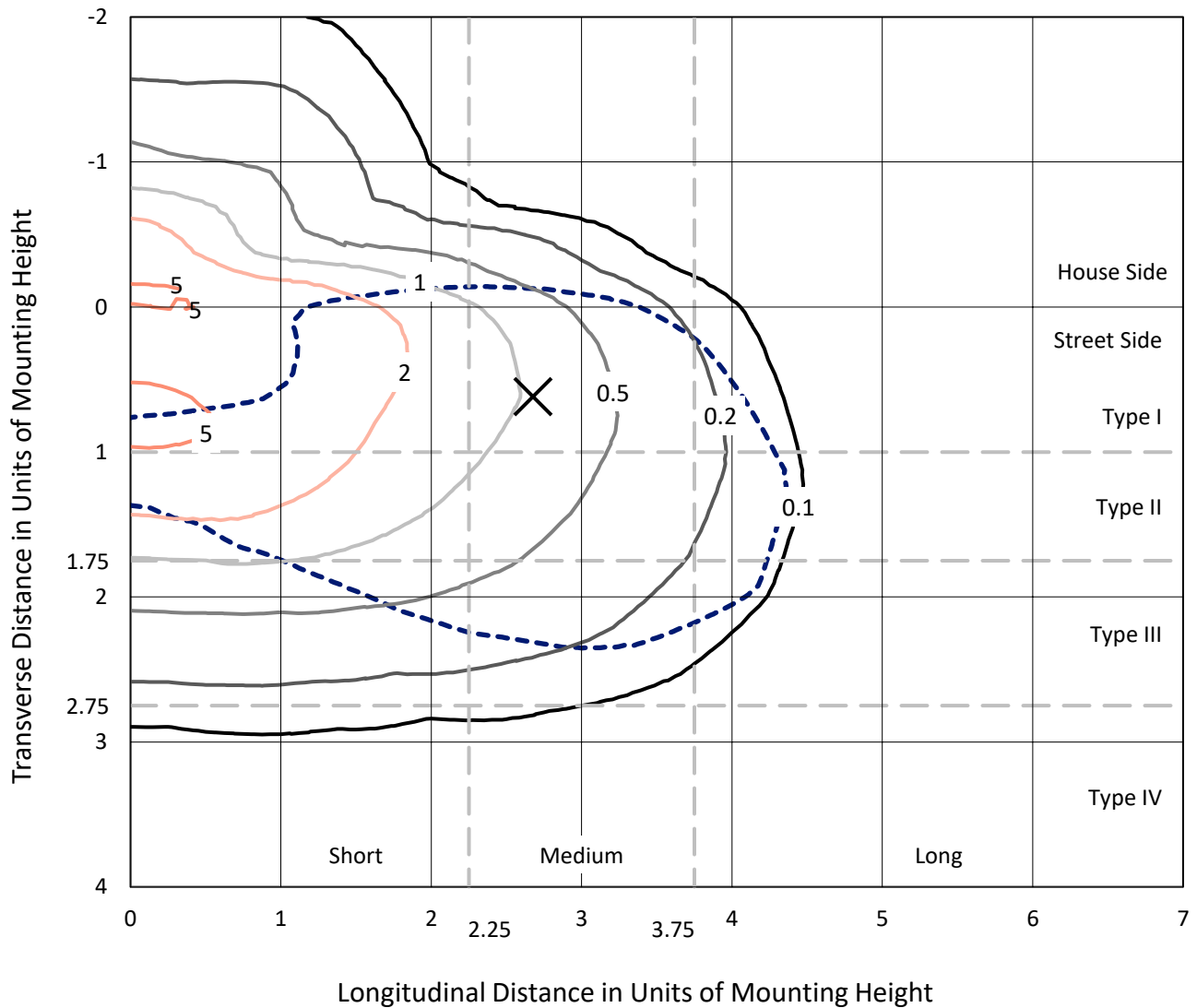
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

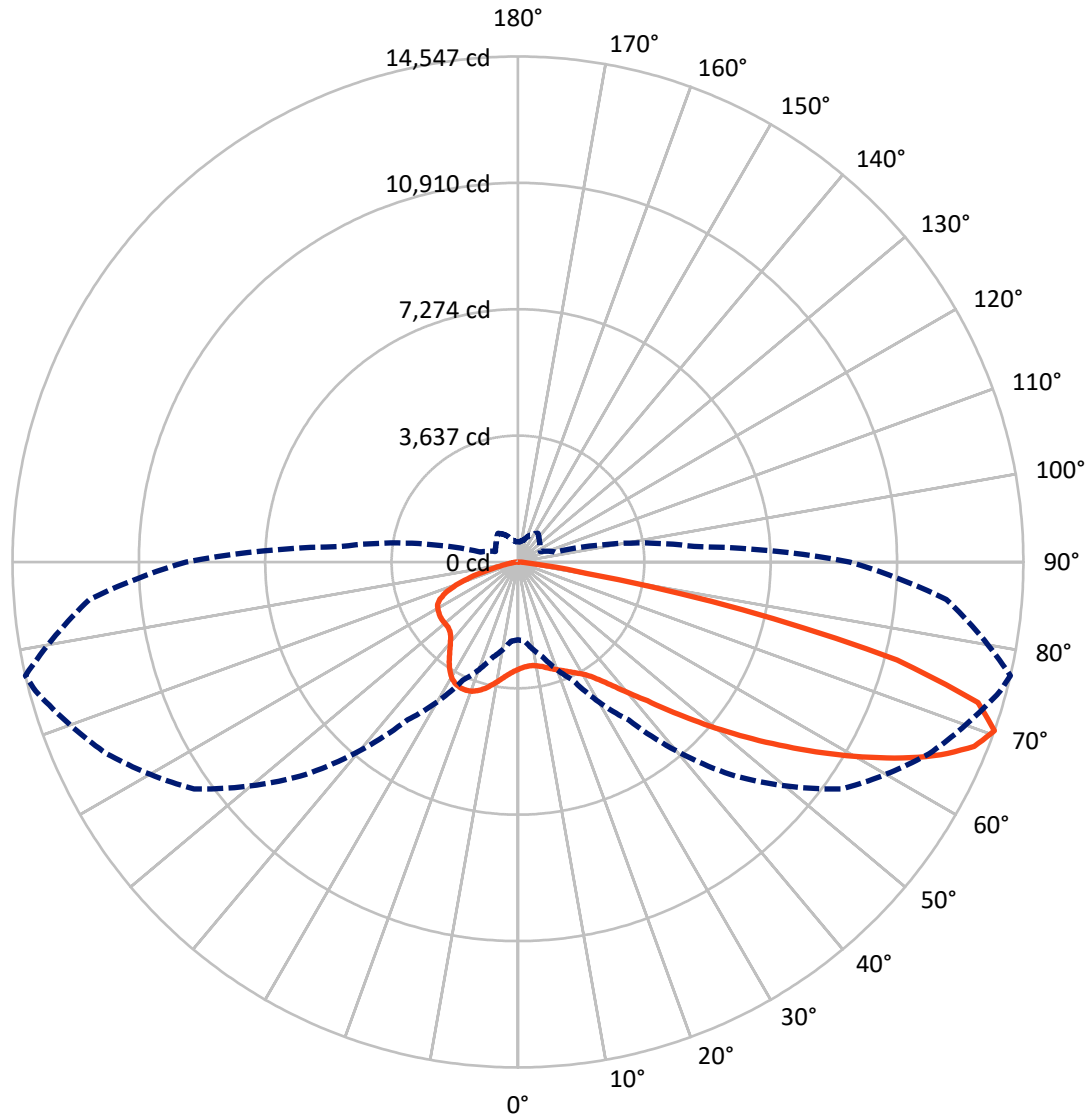
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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 | 4840.2 | 0.0 | 4840.2 |
| | % Fixture | 21.9 | 0.0 | 21.9 |
| Street Side | Lumens | 17262.8 | 0.0 | 17262.8 |
| | % Fixture | 78.1 | 0.0 | 78.1 |
| Total | Lumens | 22103.0 | 0.0 | 22103.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 294.1 | 1.3 |
| 10°-20° | 848.8 | 3.8 |
| 20°-30° | 1451.5 | 6.6 |
| 30°-40° | 2334.2 | 10.6 |
| 40°-50° | 3644.3 | 16.5 |
| 50°-60° | 4867.9 | 22.0 |
| 60°-70° | 5188.4 | 23.5 |
| 70°-80° | 3194.0 | 14.5 |
| 80°-90° | 279.9 | 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° | 22103.0 | 100.0 |
| 0°-180° | 22103.0 | 100.0 |



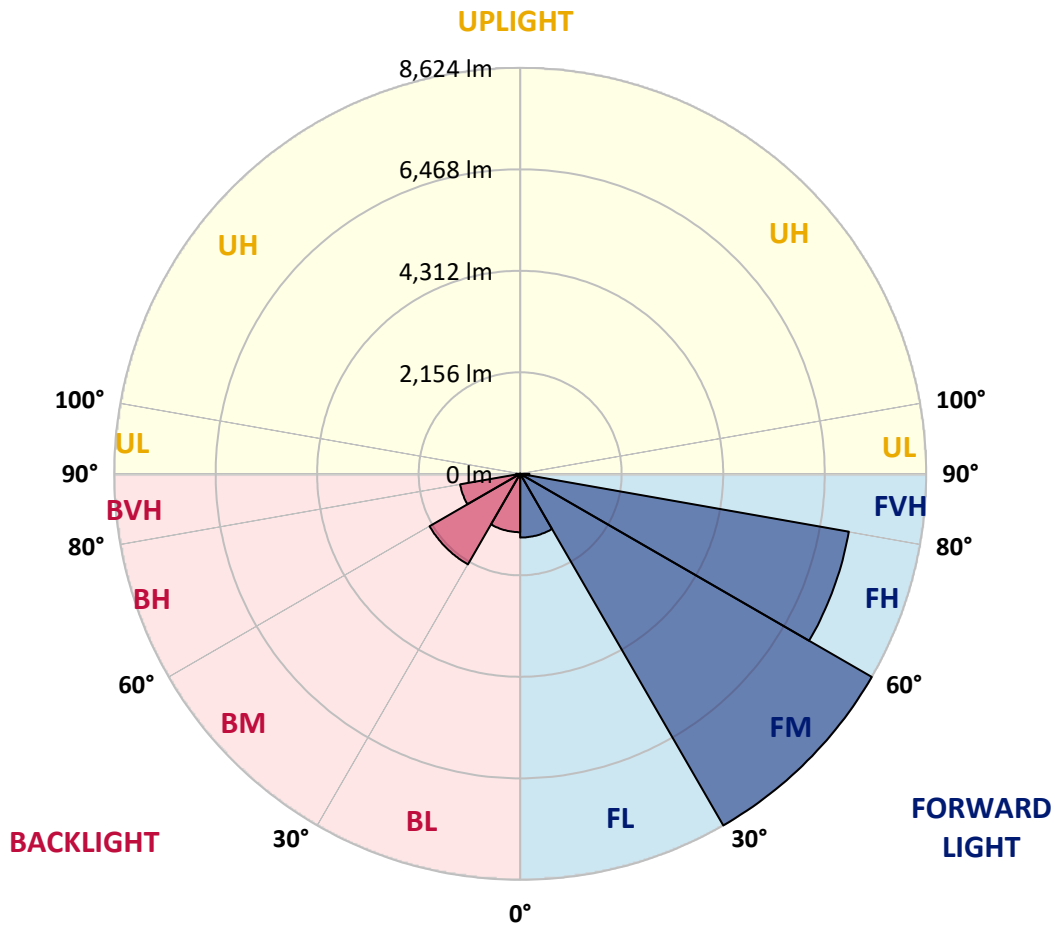
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1354.2 | 6.1 | | | |
| FM (30°-60°) | 8624.1 | 39.0 | | | |
| FH (60°-80°) | 7088.8 | 32.1 | | | G3/7500 |
| FVH (80°-90°) | 195.7 | 0.9 | | | G2/225 |
| BL (0°-30°) | 1240.2 | 5.6 | B3/2500 | | |
| BM (30°-60°) | 2222.2 | 10.1 | B2/2500 | | |
| BH (60°-80°) | 1293.6 | 5.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 84.2 | 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° | 3083.6 | 3083.6 | 3083.6 | 3083.6 | 3083.6 | 3083.6 | 3083.6 | 3083.6 | 3083.6 | 3083.6 |
| 2.5° | 2842.5 | 2841.3 | 2856.0 | 2860.6 | 2887.7 | 2907.0 | 2943.2 | 2981.7 | 3031.5 | 3037.2 |
| 5° | 2678.3 | 2678.3 | 2695.3 | 2713.4 | 2748.5 | 2787.0 | 2842.5 | 2909.2 | 2995.3 | 3008.9 |
| 7.5° | 2539.1 | 2548.1 | 2562.8 | 2597.9 | 2638.7 | 2694.2 | 2779.1 | 2874.1 | 2987.4 | 3008.9 |
| 10° | 2427.0 | 2437.2 | 2455.3 | 2483.6 | 2544.7 | 2621.7 | 2732.6 | 2854.9 | 3006.6 | 3040.6 |
| 12.5° | 2391.9 | 2402.1 | 2412.3 | 2433.8 | 2490.4 | 2581.0 | 2713.4 | 2864.0 | 3053.0 | 3087.0 |
| 15° | 2473.4 | 2485.9 | 2477.9 | 2472.3 | 2501.7 | 2584.4 | 2722.5 | 2896.8 | 3110.7 | 3159.4 |
| 17.5° | 2661.3 | 2665.9 | 2647.7 | 2594.5 | 2590.0 | 2634.2 | 2765.5 | 2942.1 | 3183.2 | 3236.4 |
| 20° | 2964.7 | 2956.8 | 2919.4 | 2814.2 | 2754.2 | 2745.1 | 2839.1 | 3010.0 | 3257.9 | 3314.5 |
| 22.5° | 3376.8 | 3367.7 | 3293.0 | 3126.6 | 2993.0 | 2904.7 | 2945.5 | 3098.3 | 3341.7 | 3405.1 |
| 25° | 3890.7 | 3878.2 | 3768.4 | 3542.0 | 3334.9 | 3116.4 | 3090.4 | 3214.9 | 3444.7 | 3503.5 |
| 27.5° | 4490.6 | 4480.5 | 4361.6 | 4062.8 | 3763.9 | 3406.2 | 3270.4 | 3351.9 | 3552.2 | 3619.0 |
| 30° | 5135.9 | 5165.3 | 4954.8 | 4633.3 | 4255.2 | 3784.3 | 3512.6 | 3520.5 | 3691.5 | 3751.5 |
| 32.5° | 5894.3 | 5945.3 | 5691.7 | 5284.2 | 4768.0 | 4195.2 | 3818.2 | 3756.0 | 3894.1 | 3943.9 |
| 35° | 6646.0 | 6703.7 | 6493.2 | 6042.6 | 5448.3 | 4679.7 | 4137.5 | 4026.5 | 4163.5 | 4217.8 |
| 37.5° | 7295.7 | 7372.7 | 7264.0 | 6872.4 | 6176.2 | 5263.8 | 4554.0 | 4344.6 | 4495.2 | 4563.1 |
| 40° | 7808.5 | 7926.3 | 7918.3 | 7673.8 | 7034.3 | 5972.4 | 5082.7 | 4737.4 | 4907.2 | 4980.8 |
| 42.5° | 8225.1 | 8327.0 | 8415.3 | 8402.8 | 7929.7 | 6777.3 | 5704.2 | 5248.0 | 5377.0 | 5461.9 |
| 45° | 8512.6 | 8621.3 | 8811.5 | 9016.4 | 8791.1 | 7638.7 | 6416.2 | 5853.6 | 5971.3 | 6099.2 |
| 47.5° | 8769.6 | 8893.0 | 9139.8 | 9464.7 | 9522.4 | 8503.6 | 7196.1 | 6558.8 | 6666.4 | 6798.8 |
| 50° | 8792.3 | 8898.7 | 9281.3 | 9742.0 | 10042.0 | 9334.5 | 8033.8 | 7350.1 | 7450.8 | 7592.3 |
| 52.5° | 8245.5 | 8413.0 | 9080.9 | 9734.1 | 10280.8 | 10029.5 | 8865.8 | 8173.0 | 8286.2 | 8456.0 |
| 55° | 6400.3 | 6646.0 | 8493.4 | 9430.7 | 10195.9 | 10478.9 | 9657.1 | 9048.1 | 9193.0 | 9370.7 |
| 57.5° | 5512.8 | 5620.4 | 6742.2 | 8878.3 | 9808.8 | 10595.5 | 10325.0 | 9932.2 | 10165.4 | 10360.1 |
| 60° | 4954.8 | 5044.2 | 5707.5 | 8019.1 | 9299.4 | 10411.0 | 10841.2 | 10756.3 | 11159.3 | 11391.3 |
| 62.5° | 4357.1 | 4442.0 | 5045.3 | 6695.8 | 8647.4 | 10104.2 | 11167.2 | 11517.0 | 12178.1 | 12431.6 |
| 65° | 3763.9 | 3836.4 | 4414.8 | 5626.0 | 7818.7 | 9797.5 | 11335.9 | 12174.7 | 13121.0 | 13383.6 |
| 67.5° | 3102.8 | 3162.8 | 3709.6 | 4746.5 | 6811.2 | 9377.5 | 11419.6 | 12692.0 | 13941.7 | 14167.0 |
| 70° | 2239.1 | 2285.5 | 2850.4 | 3753.7 | 5546.8 | 8655.3 | 11385.7 | 13058.8 | 14367.4 | 14547.3 |
| 72.5° | 1058.4 | 1100.3 | 1763.7 | 2437.2 | 3917.9 | 7249.3 | 10698.5 | 12767.8 | 13934.9 | 13845.5 |
| 75° | 564.9 | 601.1 | 1013.1 | 1336.9 | 2069.3 | 4969.5 | 8754.9 | 10998.5 | 11701.5 | 11266.8 |
| 77.5° | 382.6 | 410.9 | 627.1 | 802.6 | 945.2 | 2359.1 | 5627.2 | 7615.0 | 7326.3 | 6608.6 |
| 80° | 303.4 | 332.8 | 513.9 | 543.4 | 457.3 | 852.4 | 2325.1 | 3525.1 | 2532.3 | 2025.1 |
| 82.5° | 233.2 | 266.0 | 432.4 | 393.9 | 249.0 | 349.8 | 676.9 | 1115.0 | 648.6 | 493.6 |
| 85° | 142.6 | 177.7 | 339.6 | 251.3 | 140.4 | 159.6 | 229.8 | 310.2 | 198.1 | 165.3 |
| 87.5° | 72.4 | 101.9 | 172.1 | 91.7 | 63.4 | 37.4 | 61.1 | 61.1 | 52.1 | 45.3 |
| 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-740-U-T3R

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3083.6 | 0° | 3083.6 | 3083.6 | 3083.6 | 3083.6 | 3083.6 | 3083.6 | 3083.6 | 3083.6 | 3083.6 | 3083.6 |
| 3067.7 | 2.5° | 3094.9 | 3117.5 | 3156.0 | 3192.2 | 3220.5 | 3247.7 | 3274.9 | 3289.6 | 3294.1 | 3312.2 |
| 3084.7 | 5° | 3131.1 | 3173.0 | 3247.7 | 3317.9 | 3362.0 | 3389.2 | 3408.5 | 3419.8 | 3422.0 | 3427.7 |
| 3131.1 | 7.5° | 3197.9 | 3264.7 | 3368.8 | 3439.0 | 3471.8 | 3469.6 | 3461.7 | 3433.4 | 3422.0 | 3411.9 |
| 3199.0 | 10° | 3291.9 | 3380.2 | 3508.1 | 3556.7 | 3536.4 | 3482.0 | 3411.9 | 3329.2 | 3290.7 | 3253.4 |
| 3291.9 | 12.5° | 3408.5 | 3520.5 | 3646.2 | 3643.9 | 3543.2 | 3403.9 | 3240.9 | 3114.1 | 3033.8 | 2976.0 |
| 3406.2 | 15° | 3550.0 | 3679.0 | 3775.2 | 3698.2 | 3477.5 | 3227.3 | 2988.5 | 2823.2 | 2750.8 | 2687.4 |
| 3521.7 | 17.5° | 3696.0 | 3834.1 | 3878.2 | 3681.3 | 3312.2 | 2965.8 | 2695.3 | 2565.1 | 2493.8 | 2459.8 |
| 3646.2 | 20° | 3838.6 | 3975.6 | 3939.4 | 3583.9 | 3060.9 | 2669.3 | 2428.1 | 2356.8 | 2342.1 | 2350.0 |
| 3767.3 | 22.5° | 3989.2 | 4111.4 | 3951.8 | 3396.0 | 2740.6 | 2365.9 | 2233.4 | 2235.7 | 2268.5 | 2292.3 |
| 3894.1 | 25° | 4143.1 | 4225.8 | 3919.0 | 3124.3 | 2396.4 | 2142.9 | 2110.0 | 2146.3 | 2210.8 | 2257.2 |
| 4036.7 | 27.5° | 4291.4 | 4327.6 | 3847.7 | 2788.1 | 2101.0 | 1983.3 | 1988.9 | 2063.6 | 2161.0 | 2225.5 |
| 4209.9 | 30° | 4459.0 | 4418.2 | 3710.7 | 2410.0 | 1896.1 | 1846.3 | 1893.8 | 1981.0 | 2078.4 | 2136.1 |
| 4428.4 | 32.5° | 4648.0 | 4496.3 | 3493.4 | 2060.2 | 1751.2 | 1736.5 | 1814.6 | 1871.2 | 1914.2 | 1931.2 |
| 4718.2 | 35° | 4883.5 | 4606.1 | 3214.9 | 1814.6 | 1621.0 | 1656.1 | 1730.8 | 1702.5 | 1685.5 | 1676.5 |
| 5107.6 | 37.5° | 5189.1 | 4754.4 | 2888.9 | 1655.0 | 1515.7 | 1598.4 | 1628.9 | 1540.7 | 1473.9 | 1441.0 |
| 5579.6 | 40° | 5557.0 | 4971.7 | 2575.3 | 1531.6 | 1449.0 | 1548.6 | 1495.4 | 1389.0 | 1304.1 | 1257.7 |
| 6110.5 | 42.5° | 5965.6 | 5199.3 | 2311.5 | 1438.8 | 1411.6 | 1507.8 | 1396.9 | 1270.1 | 1133.1 | 1118.4 |
| 6743.3 | 45° | 6394.7 | 5433.6 | 2131.6 | 1367.5 | 1393.5 | 1472.7 | 1340.3 | 1135.4 | 1038.0 | 1098.0 |
| 7378.4 | 47.5° | 6823.7 | 5648.7 | 2022.9 | 1314.3 | 1384.4 | 1433.1 | 1290.5 | 1060.7 | 991.6 | 1078.8 |
| 8058.7 | 50° | 7301.4 | 5841.1 | 1974.2 | 1275.8 | 1374.2 | 1417.3 | 1215.8 | 1041.4 | 943.0 | 1000.7 |
| 8762.8 | 52.5° | 7775.7 | 5990.5 | 1938.0 | 1237.3 | 1359.5 | 1404.8 | 1179.5 | 1018.8 | 884.1 | 887.5 |
| 9471.5 | 55° | 8248.9 | 6087.9 | 1898.4 | 1186.3 | 1326.7 | 1377.6 | 1176.1 | 993.9 | 839.9 | 824.1 |
| 10220.8 | 57.5° | 8753.8 | 6143.4 | 1849.7 | 1129.7 | 1270.1 | 1308.6 | 1172.8 | 974.7 | 826.4 | 800.3 |
| 10987.2 | 60° | 9267.7 | 6224.9 | 1786.3 | 1060.7 | 1194.3 | 1226.0 | 1164.8 | 967.9 | 818.4 | 774.3 |
| 11709.4 | 62.5° | 9728.4 | 6253.2 | 1710.5 | 995.0 | 1096.9 | 1144.5 | 1147.8 | 962.2 | 796.9 | 721.1 |
| 12309.4 | 65° | 10030.7 | 6130.9 | 1578.0 | 920.3 | 991.6 | 1060.7 | 1115.0 | 943.0 | 758.4 | 682.6 |
| 12606.0 | 67.5° | 10018.2 | 5782.3 | 1370.9 | 824.1 | 889.8 | 967.9 | 1067.5 | 910.1 | 712.0 | 635.1 |
| 12381.8 | 70° | 9551.8 | 5094.0 | 1108.2 | 712.0 | 777.7 | 868.2 | 1006.3 | 861.5 | 656.6 | 583.0 |
| 11009.8 | 72.5° | 8192.3 | 3986.9 | 804.9 | 580.7 | 647.5 | 765.2 | 927.1 | 802.6 | 600.0 | 536.6 |
| 8136.8 | 75° | 5852.4 | 2523.2 | 545.6 | 446.0 | 503.7 | 648.6 | 828.6 | 733.5 | 547.9 | 538.8 |
| 4075.2 | 77.5° | 2989.6 | 1205.6 | 361.1 | 326.0 | 350.9 | 511.7 | 696.2 | 655.4 | 555.8 | 444.9 |
| 1159.2 | 80° | 972.4 | 444.9 | 227.5 | 221.9 | 233.2 | 340.7 | 538.8 | 537.7 | 421.1 | 302.2 |
| 280.7 | 82.5° | 310.2 | 191.3 | 148.3 | 142.6 | 137.0 | 213.9 | 375.8 | 425.6 | 284.1 | 191.3 |
| 100.7 | 85° | 123.4 | 114.3 | 87.2 | 80.4 | 57.7 | 100.7 | 197.0 | 283.0 | 211.7 | 138.1 |
| 26.0 | 87.5° | 45.3 | 45.3 | 23.8 | 17.0 | 12.5 | 34.0 | 53.2 | 84.9 | 121.1 | 71.3 |
| 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> |
|-------------|
| 3083.6 |
| 3322.4 |
| 3436.8 |
| 3414.1 |
| 3242.1 |
| 2962.4 |
| 2680.6 |
| 2470.0 |
| 2346.6 |
| 2298.0 |
| 2269.7 |
| 2241.4 |
| 2149.7 |
| 1940.2 |
| 1685.5 |
| 1449.0 |
| 1261.0 |
| 1133.1 |
| 1129.7 |
| 1119.5 |
| 1043.7 |
| 911.3 |
| 835.4 |
| 803.7 |
| 777.7 |
| 721.1 |
| 682.6 |
| 638.4 |
| 589.8 |
| 533.2 |
| 508.3 |
| 396.2 |
| 267.2 |
| 190.2 |
| 141.5 |
| 70.2 |
| 0.0 |

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