

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: P940555

Luminaire Tested: **GALN-SB3C-935-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940555
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB3C-935-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15488 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

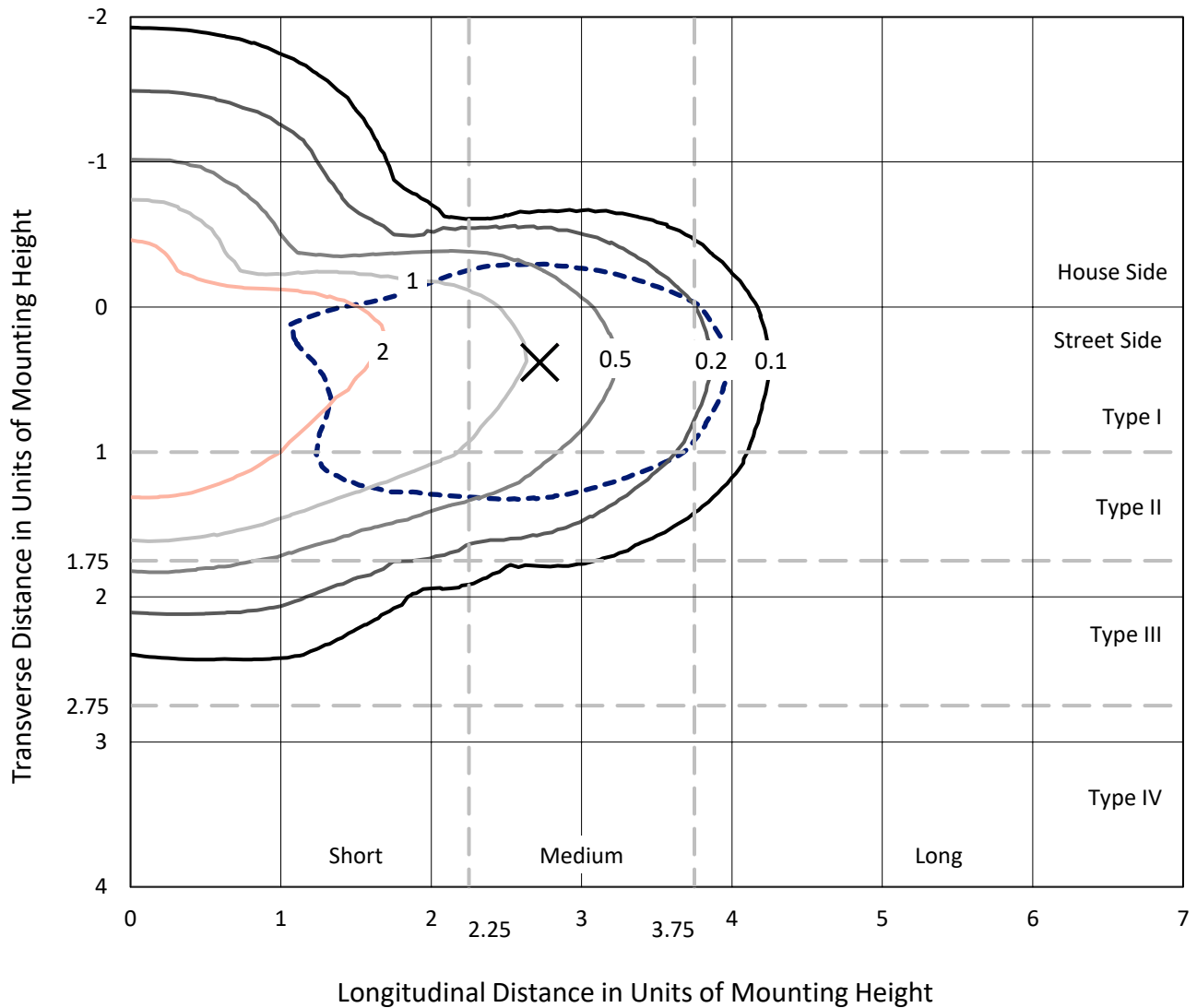
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

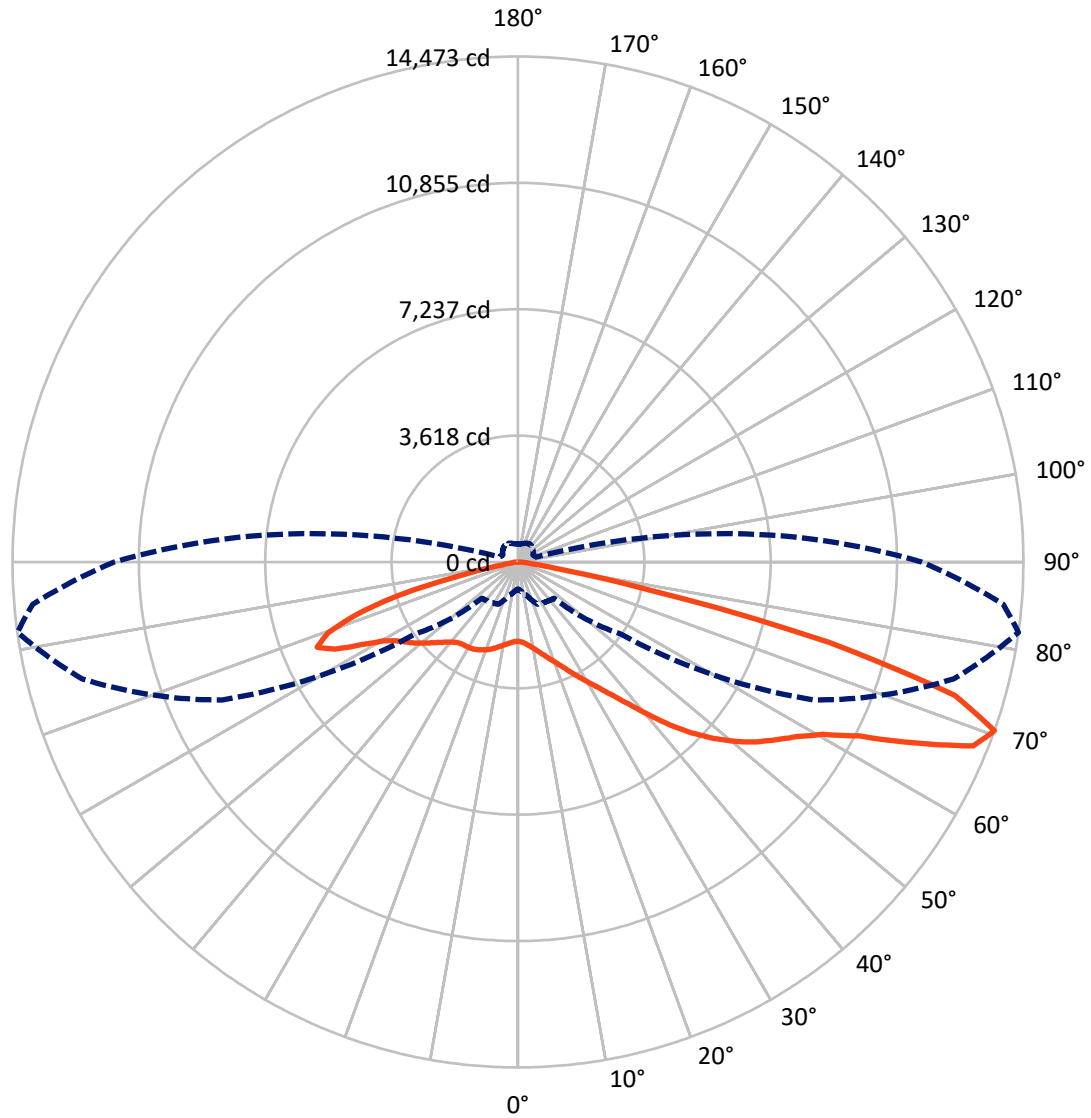
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3818.2 | 0.0 | 3818.2 |
| | % Fixture | 24.7 | 0.0 | 24.7 |
| Street Side | Lumens | 11669.8 | 0.0 | 11669.8 |
| | % Fixture | 75.3 | 0.0 | 75.3 |
| Total | Lumens | 15488.0 | 0.0 | 15488.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 214.4 | 1.4 |
| 10°-20° | 616.0 | 4.0 |
| 20°-30° | 1030.5 | 6.7 |
| 30°-40° | 1609.9 | 10.4 |
| 40°-50° | 2563.9 | 16.6 |
| 50°-60° | 3568.0 | 23.0 |
| 60°-70° | 3732.2 | 24.1 |
| 70°-80° | 1950.7 | 12.6 |
| 80°-90° | 202.6 | 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° | 15488.0 | 100.0 |
| 0°-180° | 15488.0 | 100.0 |

Coefficient of Utilization



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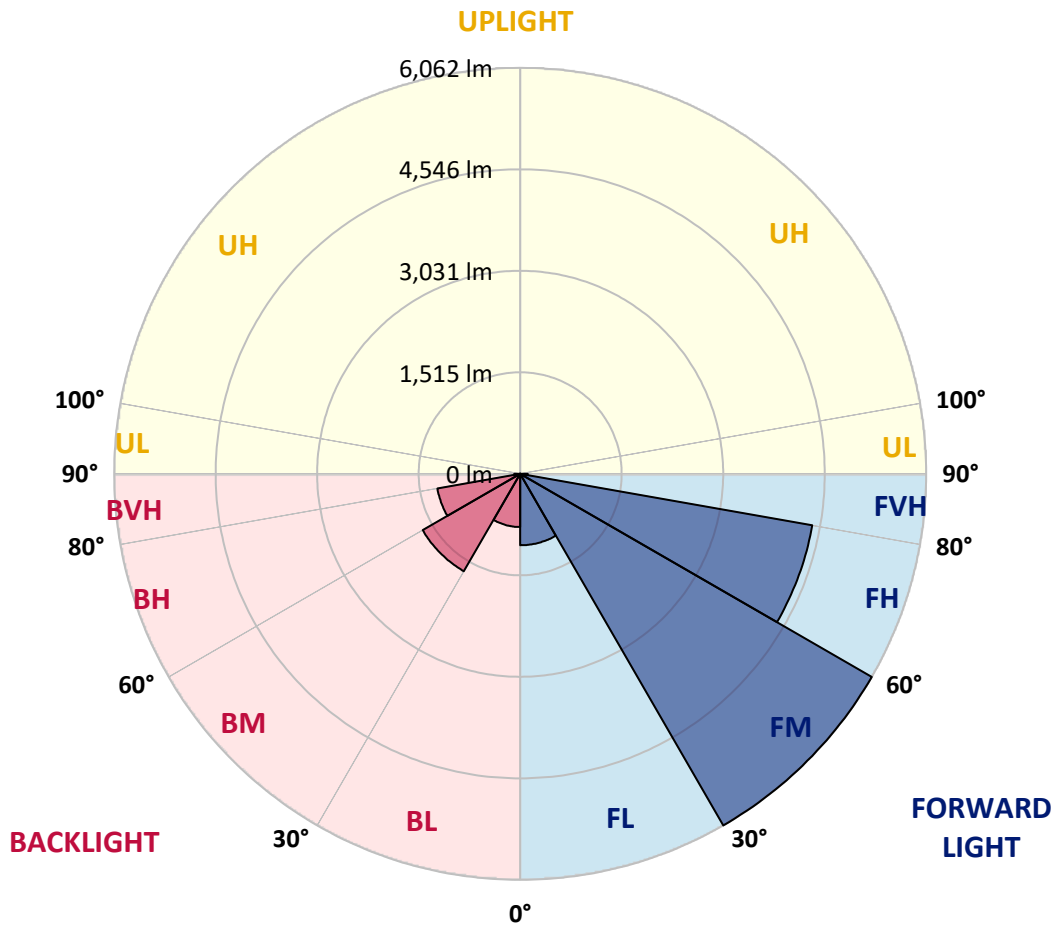
CATALOG NUMBER: GALN-SB3C-935-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1066.5 | 6.9 | | | |
| FM (30°-60°) | 6061.8 | 39.1 | | | |
| FH (60°-80°) | 4428.1 | 28.6 | | | G2/5000 |
| FVH (80°-90°) | 113.4 | 0.7 | | | G2/225 |
| BL (0°-30°) | 794.3 | 5.1 | B2/1000 | | |
| BM (30°-60°) | 1679.8 | 10.8 | B2/2500 | | |
| BH (60°-80°) | 1254.8 | 8.1 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 89.2 | 0.6 | | | 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 II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 82° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 2270.7 | 2270.7 | 2270.7 | 2270.7 | 2270.7 | 2270.7 | 2270.7 | 2270.7 | 2270.7 | 2270.7 |
| 2.5° | 2325.0 | 2338.1 | 2334.0 | 2329.9 | 2329.9 | 2324.2 | 2323.3 | 2315.1 | 2308.5 | 2297.9 |
| 5° | 2354.6 | 2368.5 | 2366.9 | 2370.2 | 2380.9 | 2383.3 | 2385.8 | 2380.9 | 2367.7 | 2354.6 |
| 7.5° | 2328.3 | 2343.9 | 2348.8 | 2368.5 | 2401.4 | 2431.0 | 2453.2 | 2462.2 | 2449.9 | 2431.0 |
| 10° | 2239.5 | 2256.8 | 2274.0 | 2320.9 | 2379.2 | 2449.1 | 2508.2 | 2543.6 | 2541.1 | 2523.0 |
| 12.5° | 2059.5 | 2077.6 | 2114.6 | 2205.8 | 2312.6 | 2435.9 | 2546.0 | 2620.0 | 2645.5 | 2632.3 |
| 15° | 1915.7 | 1931.3 | 1959.3 | 2052.9 | 2191.8 | 2379.2 | 2560.0 | 2703.8 | 2768.8 | 2761.4 |
| 17.5° | 1911.6 | 1918.2 | 1935.4 | 1979.8 | 2086.6 | 2290.5 | 2545.2 | 2786.0 | 2910.1 | 2909.3 |
| 20° | 1983.9 | 1986.4 | 1996.2 | 2005.3 | 2066.1 | 2223.1 | 2507.4 | 2854.2 | 3068.7 | 3068.7 |
| 22.5° | 2084.2 | 2082.5 | 2092.4 | 2084.2 | 2113.8 | 2217.3 | 2483.6 | 2914.2 | 3245.4 | 3258.6 |
| 25° | 2234.6 | 2226.4 | 2223.9 | 2205.0 | 2210.7 | 2270.7 | 2509.9 | 2982.4 | 3455.0 | 3482.1 |
| 27.5° | 2435.1 | 2422.0 | 2412.9 | 2369.4 | 2354.6 | 2380.9 | 2590.4 | 3064.6 | 3688.4 | 3735.2 |
| 30° | 2696.4 | 2672.6 | 2659.5 | 2583.9 | 2530.4 | 2534.5 | 2712.1 | 3173.9 | 3932.5 | 4008.1 |
| 32.5° | 3053.1 | 3016.1 | 2980.8 | 2856.7 | 2758.9 | 2726.9 | 2869.0 | 3325.2 | 4197.1 | 4317.9 |
| 35° | 3452.5 | 3422.9 | 3385.1 | 3193.7 | 3043.3 | 2969.3 | 3081.1 | 3536.4 | 4507.0 | 4698.4 |
| 37.5° | 3837.2 | 3811.7 | 3829.8 | 3571.7 | 3377.7 | 3270.1 | 3358.8 | 3819.9 | 4889.1 | 5171.8 |
| 40° | 4234.9 | 4215.2 | 4217.7 | 3971.1 | 3745.1 | 3624.3 | 3695.8 | 4175.8 | 5327.1 | 5734.8 |
| 42.5° | 4667.2 | 4652.4 | 4603.1 | 4384.5 | 4130.6 | 4018.0 | 4083.7 | 4586.7 | 5797.2 | 6375.8 |
| 45° | 5151.3 | 5142.2 | 5096.2 | 4845.5 | 4554.6 | 4428.1 | 4516.8 | 5040.3 | 6269.8 | 6979.0 |
| 47.5° | 5569.6 | 5577.0 | 5571.2 | 5360.0 | 5058.4 | 4872.7 | 4978.7 | 5513.7 | 6709.5 | 7546.1 |
| 50° | 5770.9 | 5809.6 | 5866.3 | 5800.5 | 5613.1 | 5424.1 | 5444.7 | 5970.6 | 7128.6 | 8077.8 |
| 52.5° | 5665.7 | 5738.9 | 5893.4 | 5998.6 | 6070.9 | 6031.5 | 5976.4 | 6424.3 | 7523.1 | 8557.8 |
| 55° | 5273.7 | 5376.5 | 5632.9 | 5886.8 | 6255.8 | 6542.6 | 6615.0 | 6927.3 | 7907.7 | 8980.2 |
| 57.5° | 4559.5 | 4726.4 | 4956.5 | 5470.1 | 6091.5 | 6790.0 | 7359.5 | 7625.0 | 8315.3 | 9431.4 |
| 60° | 3335.0 | 3558.6 | 3844.6 | 4608.9 | 5516.2 | 6657.7 | 7993.2 | 8696.7 | 8894.7 | 10015.7 |
| 62.5° | 2134.3 | 2272.4 | 2535.4 | 3255.3 | 4298.2 | 5979.7 | 8187.1 | 10036.3 | 9876.8 | 10974.0 |
| 65° | 1461.2 | 1550.0 | 1790.8 | 2195.1 | 2778.6 | 4451.1 | 7667.7 | 11040.6 | 11436.7 | 12492.7 |
| 67.5° | 1061.8 | 1129.2 | 1334.7 | 1688.9 | 1810.5 | 2634.0 | 5950.1 | 10994.5 | 12953.0 | 14057.5 |
| 70° | 774.2 | 821.8 | 994.4 | 1334.7 | 1393.0 | 1465.3 | 3604.6 | 9345.9 | 12920.1 | 14473.4 |
| 72.5° | 573.6 | 606.5 | 722.4 | 1035.5 | 1127.6 | 989.5 | 1784.2 | 6792.5 | 11102.2 | 13091.0 |
| 75° | 415.0 | 439.7 | 525.2 | 792.3 | 902.4 | 753.6 | 890.0 | 3969.5 | 7744.2 | 9208.7 |
| 77.5° | 317.2 | 336.1 | 392.0 | 580.2 | 722.4 | 565.4 | 552.3 | 1826.1 | 3672.0 | 3690.0 |
| 80° | 254.8 | 267.1 | 297.5 | 408.5 | 553.9 | 423.2 | 360.0 | 737.2 | 1160.4 | 982.1 |
| 82.5° | 187.4 | 207.9 | 251.5 | 286.8 | 396.1 | 291.8 | 219.4 | 372.3 | 441.3 | 379.7 |
| 85° | 106.8 | 120.8 | 152.0 | 205.5 | 253.1 | 178.3 | 125.7 | 165.2 | 205.5 | 168.5 |
| 87.5° | 37.8 | 49.3 | 53.4 | 80.5 | 110.1 | 74.0 | 48.5 | 47.7 | 67.4 | 50.1 |
| 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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CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2270.7 | 0° | 2270.7 | 2270.7 | 2270.7 | 2270.7 | 2270.7 | 2270.7 | 2270.7 | 2270.7 | 2270.7 | 2270.7 |
| 2295.4 | 2.5° | 2287.2 | 2283.1 | 2266.6 | 2244.4 | 2221.4 | 2199.2 | 2191.8 | 2176.2 | 2165.5 | 2159.8 |
| 2348.8 | 5° | 2333.2 | 2320.0 | 2281.4 | 2232.1 | 2180.3 | 2124.4 | 2085.0 | 2048.8 | 2022.5 | 1997.9 |
| 2422.0 | 7.5° | 2398.9 | 2375.9 | 2309.4 | 2223.1 | 2131.0 | 2038.2 | 1969.1 | 1916.5 | 1881.2 | 1858.2 |
| 2507.4 | 10° | 2475.4 | 2440.0 | 2338.1 | 2209.1 | 2066.9 | 1933.8 | 1852.4 | 1807.2 | 1785.0 | 1772.7 |
| 2605.2 | 12.5° | 2563.3 | 2513.2 | 2367.7 | 2177.0 | 1969.1 | 1817.1 | 1761.2 | 1748.0 | 1748.9 | 1749.7 |
| 2728.5 | 15° | 2671.8 | 2601.9 | 2391.5 | 2107.2 | 1841.7 | 1727.5 | 1717.6 | 1739.0 | 1761.2 | 1771.9 |
| 2868.2 | 17.5° | 2794.2 | 2695.6 | 2395.7 | 1992.1 | 1716.8 | 1670.0 | 1701.2 | 1747.2 | 1780.9 | 1795.7 |
| 3024.4 | 20° | 2925.7 | 2791.0 | 2366.1 | 1829.4 | 1614.1 | 1623.1 | 1679.0 | 1738.2 | 1775.2 | 1794.1 |
| 3202.7 | 22.5° | 3076.1 | 2892.9 | 2295.4 | 1658.5 | 1530.3 | 1572.2 | 1637.9 | 1695.4 | 1734.1 | 1753.0 |
| 3412.3 | 25° | 3247.9 | 3007.1 | 2184.4 | 1514.6 | 1457.9 | 1514.6 | 1580.4 | 1628.1 | 1659.3 | 1676.5 |
| 3646.5 | 27.5° | 3438.6 | 3126.3 | 2036.5 | 1400.4 | 1394.7 | 1455.5 | 1509.7 | 1546.7 | 1563.1 | 1576.3 |
| 3895.5 | 30° | 3630.1 | 3234.7 | 1857.4 | 1314.1 | 1339.6 | 1397.1 | 1435.7 | 1452.2 | 1457.1 | 1459.6 |
| 4173.3 | 32.5° | 3837.2 | 3328.4 | 1669.2 | 1242.6 | 1287.0 | 1340.4 | 1363.4 | 1370.8 | 1347.8 | 1332.2 |
| 4510.2 | 35° | 4087.8 | 3428.7 | 1485.1 | 1185.9 | 1235.2 | 1281.2 | 1288.6 | 1282.1 | 1254.9 | 1222.9 |
| 4932.7 | 37.5° | 4397.6 | 3553.6 | 1337.9 | 1145.6 | 1186.7 | 1217.1 | 1208.1 | 1206.5 | 1208.9 | 1171.1 |
| 5440.6 | 40° | 4777.3 | 3716.3 | 1230.3 | 1114.4 | 1147.3 | 1153.9 | 1128.4 | 1142.4 | 1154.7 | 1097.2 |
| 5997.8 | 42.5° | 5198.9 | 3912.8 | 1162.1 | 1093.0 | 1114.4 | 1098.8 | 1059.3 | 1075.0 | 1073.3 | 997.7 |
| 6557.4 | 45° | 5628.8 | 4126.4 | 1138.2 | 1077.4 | 1084.0 | 1052.8 | 1009.2 | 1013.3 | 978.8 | 910.6 |
| 7094.1 | 47.5° | 6056.1 | 4355.7 | 1153.0 | 1064.3 | 1046.2 | 1010.9 | 977.2 | 959.1 | 908.1 | 857.2 |
| 7608.6 | 50° | 6475.3 | 4596.5 | 1207.3 | 1038.0 | 994.4 | 973.9 | 949.2 | 917.2 | 862.9 | 819.4 |
| 8095.1 | 52.5° | 6864.0 | 4839.0 | 1268.1 | 994.4 | 929.5 | 941.8 | 926.2 | 889.2 | 835.8 | 791.4 |
| 8555.3 | 55° | 7232.2 | 5081.4 | 1291.9 | 934.4 | 868.7 | 913.9 | 904.8 | 836.6 | 772.5 | 736.4 |
| 9036.9 | 57.5° | 7633.2 | 5373.2 | 1265.6 | 858.0 | 819.4 | 881.8 | 847.3 | 771.7 | 734.7 | 707.6 |
| 9664.0 | 60° | 8188.8 | 5830.9 | 1208.9 | 763.5 | 772.5 | 834.2 | 775.0 | 743.8 | 703.5 | 673.1 |
| 10604.2 | 62.5° | 9111.7 | 6684.8 | 1117.7 | 669.8 | 717.5 | 763.5 | 740.5 | 709.2 | 668.2 | 638.6 |
| 12211.7 | 65° | 10476.0 | 7871.6 | 945.9 | 596.7 | 655.8 | 694.5 | 703.5 | 672.3 | 629.5 | 598.3 |
| 13620.3 | 67.5° | 11626.5 | 8616.1 | 715.8 | 535.8 | 592.5 | 638.6 | 664.0 | 633.6 | 588.4 | 558.0 |
| 13949.9 | 70° | 11563.2 | 8075.4 | 546.5 | 475.8 | 536.7 | 583.5 | 616.4 | 592.5 | 544.1 | 515.3 |
| 12671.1 | 72.5° | 10270.5 | 6755.5 | 442.1 | 415.0 | 480.0 | 526.0 | 565.4 | 547.3 | 498.0 | 470.1 |
| 9282.6 | 75° | 7545.3 | 4795.4 | 353.4 | 353.4 | 409.3 | 466.0 | 509.5 | 498.0 | 452.8 | 433.1 |
| 3897.1 | 77.5° | 3180.5 | 2011.9 | 277.0 | 293.4 | 340.2 | 400.2 | 454.5 | 458.6 | 419.1 | 443.8 |
| 1030.6 | 80° | 845.7 | 554.7 | 211.2 | 230.9 | 267.1 | 330.4 | 395.3 | 393.7 | 350.9 | 327.9 |
| 383.0 | 82.5° | 322.2 | 218.6 | 150.4 | 162.7 | 193.1 | 253.1 | 313.1 | 323.0 | 280.2 | 242.4 |
| 150.4 | 85° | 124.1 | 93.7 | 92.9 | 97.8 | 112.6 | 167.7 | 236.7 | 244.9 | 211.2 | 179.2 |
| 41.9 | 87.5° | 32.1 | 27.9 | 34.5 | 32.9 | 51.8 | 89.6 | 135.6 | 140.5 | 129.0 | 74.8 |
| 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> |
|-------------|
| 2270.7 |
| 2166.4 |
| 2007.7 |
| 1863.1 |
| 1776.0 |
| 1751.3 |
| 1771.1 |
| 1799.0 |
| 1799.0 |
| 1757.9 |
| 1681.5 |
| 1581.2 |
| 1465.3 |
| 1337.1 |
| 1224.5 |
| 1173.6 |
| 1098.8 |
| 996.9 |
| 913.1 |
| 857.2 |
| 816.1 |
| 792.3 |
| 733.1 |
| 705.1 |
| 671.4 |
| 638.6 |
| 599.9 |
| 558.8 |
| 517.8 |
| 470.1 |
| 427.4 |
| 402.7 |
| 304.9 |
| 242.4 |
| 184.9 |
| 106.8 |
| 0.0 |

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