

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: P940115

Luminaire Tested: **GALN-SB3A-740-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940115  
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-SB3A-740-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14109 lumens  
Efficiency: N/A  
Efficacy: 166.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

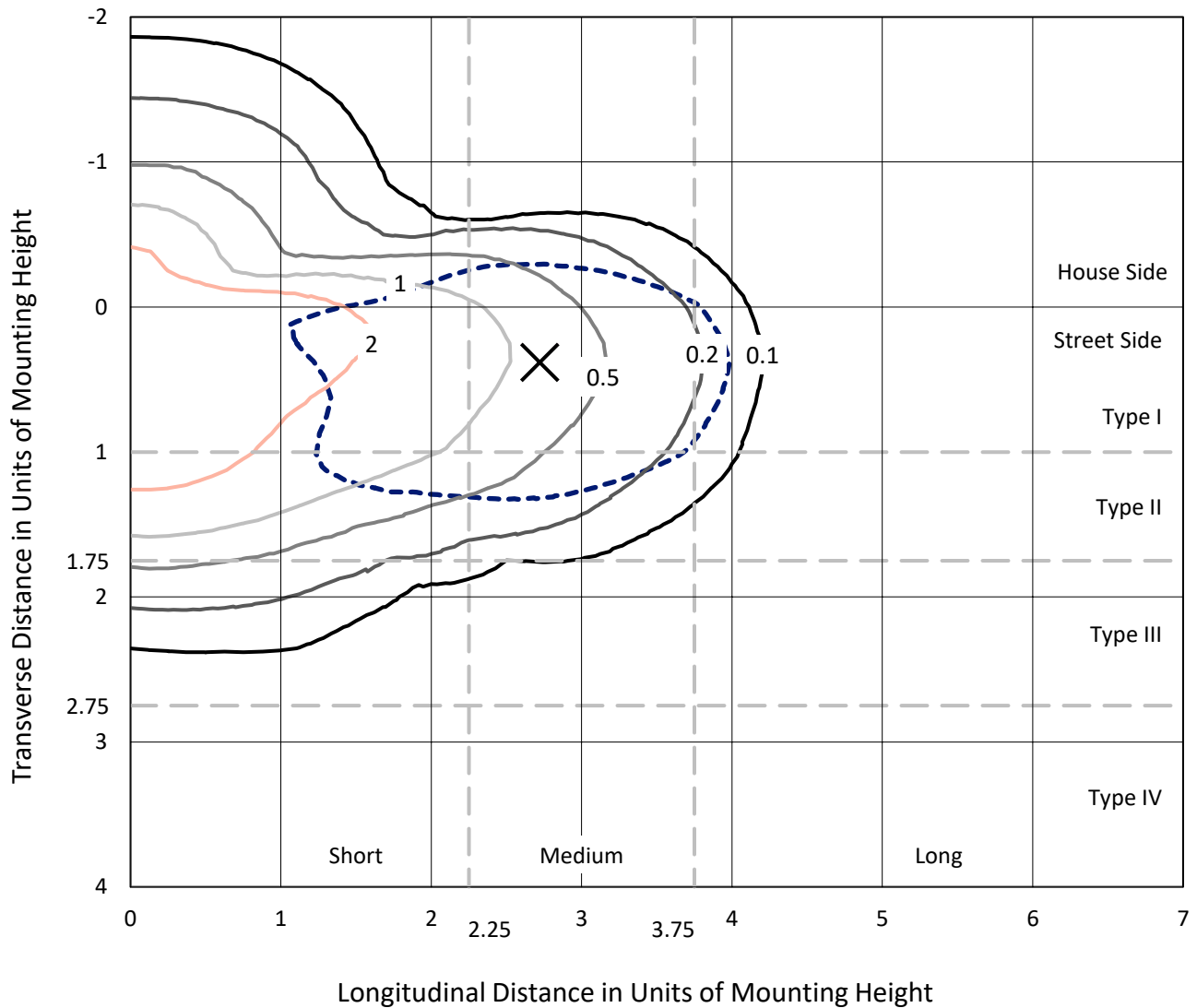
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

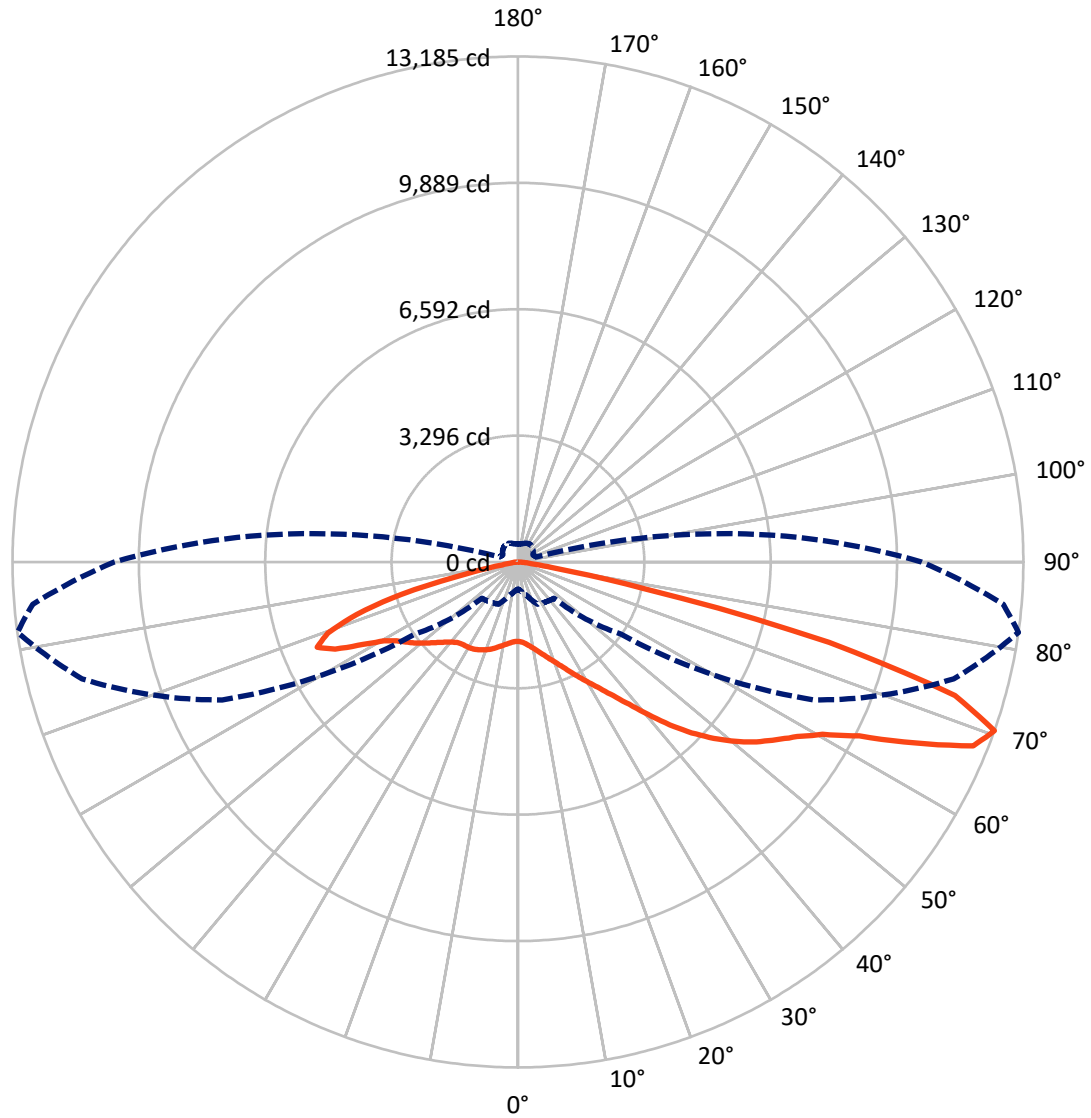
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
 Type II - Medium - N/A

REPORT NUMBER: P940115  
CATALOG NUMBER: GALN-SB3A-740-U-T2

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P940115

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3478.2   | 0.0    | 3478.2  |
|                    | % Fixture | 24.7     | 0.0    | 24.7    |
| <b>Street Side</b> | Lumens    | 10630.8  | 0.0    | 10630.8 |
|                    | % Fixture | 75.3     | 0.0    | 75.3    |
| <b>Total</b>       | Lumens    | 14109.0  | 0.0    | 14109.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 195.3   | 1.4       |
| 10°-20°   | 561.1   | 4.0       |
| 20°-30°   | 938.7   | 6.7       |
| 30°-40°   | 1466.5  | 10.4      |
| 40°-50°   | 2335.6  | 16.6      |
| 50°-60°   | 3250.3  | 23.0      |
| 60°-70°   | 3399.9  | 24.1      |
| 70°-80°   | 1777.0  | 12.6      |
| 80°-90°   | 184.5   | 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°    | 14109.0 | 100.0     |
| 0°-180°   | 14109.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P940115

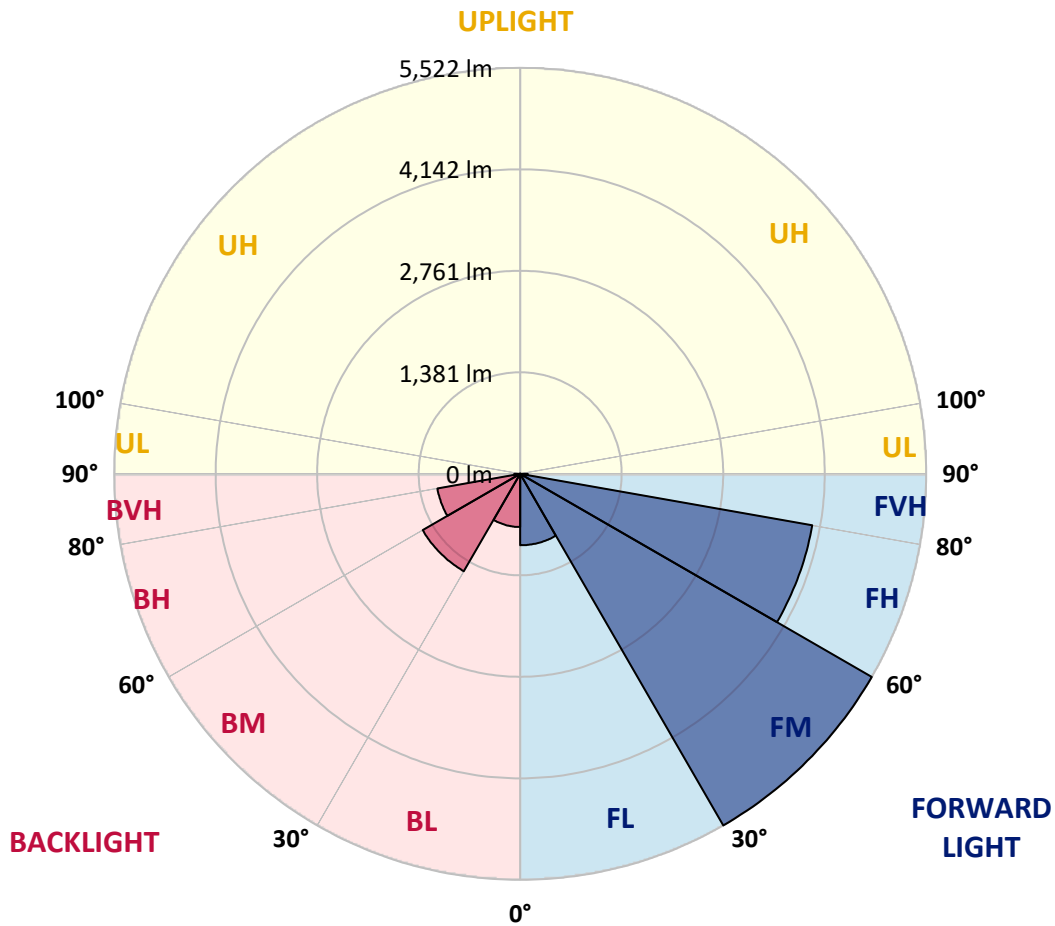
CATALOG NUMBER: GALN-SB3A-740-U-T2

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 971.6  | 6.9       |                         |      |         |
| FM (30°-60°)   | 5522.1 | 39.1      |                         |      |         |
| FH (60°-80°)   | 4033.8 | 28.6      |                         |      | G2/5000 |
| FVH (80°-90°)  | 103.3  | 0.7       |                         |      | G2/225  |
| BL (0°-30°)    | 723.6  | 5.1       | B2/1000                 |      |         |
| BM (30°-60°)   | 1530.3 | 10.8      | B2/2500                 |      |         |
| BH (60°-80°)   | 1143.1 | 8.1       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 81.2   | 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



REPORT NUMBER: P940115

CATALOG NUMBER: GALN-SB3A-740-U-T2

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°     | 75°     | 82°     |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0°    | 2068.6 | 2068.6 | 2068.6 | 2068.6 | 2068.6 | 2068.6 | 2068.6 | 2068.6  | 2068.6  | 2068.6  |
| 2.5°  | 2118.0 | 2129.9 | 2126.2 | 2122.5 | 2122.5 | 2117.2 | 2116.5 | 2109.0  | 2103.0  | 2093.3  |
| 5°    | 2144.9 | 2157.6 | 2156.1 | 2159.1 | 2168.9 | 2171.1 | 2173.4 | 2168.9  | 2156.9  | 2144.9  |
| 7.5°  | 2121.0 | 2135.2 | 2139.7 | 2157.6 | 2187.6 | 2214.5 | 2234.8 | 2243.0  | 2231.8  | 2214.5  |
| 10°   | 2040.1 | 2055.8 | 2071.6 | 2114.2 | 2167.4 | 2231.0 | 2284.9 | 2317.1  | 2314.9  | 2298.4  |
| 12.5° | 1876.1 | 1892.6 | 1926.3 | 2009.4 | 2106.7 | 2219.0 | 2319.4 | 2386.7  | 2409.9  | 2398.0  |
| 15°   | 1745.1 | 1759.4 | 1784.8 | 1870.2 | 1996.7 | 2167.4 | 2332.1 | 2463.1  | 2522.2  | 2515.5  |
| 17.5° | 1741.4 | 1747.4 | 1763.1 | 1803.5 | 1900.9 | 2086.5 | 2318.6 | 2538.0  | 2651.0  | 2650.3  |
| 20°   | 1807.3 | 1809.5 | 1818.5 | 1826.7 | 1882.1 | 2025.1 | 2284.2 | 2600.1  | 2795.5  | 2795.5  |
| 22.5° | 1898.6 | 1897.1 | 1906.1 | 1898.6 | 1925.6 | 2019.9 | 2262.5 | 2654.8  | 2956.5  | 2968.4  |
| 25°   | 2035.6 | 2028.1 | 2025.9 | 2008.7 | 2013.9 | 2068.6 | 2286.4 | 2716.9  | 3147.4  | 3172.1  |
| 27.5° | 2218.3 | 2206.3 | 2198.1 | 2158.4 | 2144.9 | 2168.9 | 2359.8 | 2791.8  | 3360.0  | 3402.7  |
| 30°   | 2456.4 | 2434.7 | 2422.7 | 2353.8 | 2305.1 | 2308.9 | 2470.6 | 2891.3  | 3582.4  | 3651.2  |
| 32.5° | 2781.3 | 2747.6 | 2715.4 | 2602.4 | 2513.3 | 2484.1 | 2613.6 | 3029.1  | 3823.4  | 3933.5  |
| 35°   | 3145.1 | 3118.2 | 3083.7 | 2909.3 | 2772.3 | 2704.9 | 2806.7 | 3221.5  | 4105.7  | 4280.1  |
| 37.5° | 3495.5 | 3472.3 | 3488.8 | 3253.7 | 3077.0 | 2978.9 | 3059.8 | 3479.8  | 4453.8  | 4711.3  |
| 40°   | 3857.9 | 3839.9 | 3842.1 | 3617.5 | 3411.7 | 3301.6 | 3366.7 | 3804.0  | 4852.8  | 5224.2  |
| 42.5° | 4251.7 | 4238.2 | 4193.3 | 3994.1 | 3762.8 | 3660.2 | 3720.1 | 4178.3  | 5281.1  | 5808.1  |
| 45°   | 4692.6 | 4684.4 | 4642.5 | 4414.1 | 4149.1 | 4033.8 | 4114.7 | 4591.6  | 5711.5  | 6357.6  |
| 47.5° | 5073.7 | 5080.4 | 5075.2 | 4882.8 | 4608.0 | 4438.8 | 4535.4 | 5022.8  | 6112.1  | 6874.2  |
| 50°   | 5257.1 | 5292.3 | 5344.0 | 5284.1 | 5113.4 | 4941.2 | 4959.9 | 5439.0  | 6493.9  | 7358.6  |
| 52.5° | 5161.3 | 5227.9 | 5368.7 | 5464.5 | 5530.4 | 5494.4 | 5444.3 | 5852.3  | 6853.3  | 7795.8  |
| 55°   | 4804.2 | 4897.8 | 5131.3 | 5362.7 | 5698.8 | 5960.1 | 6026.0 | 6310.5  | 7203.6  | 8180.6  |
| 57.5° | 4153.6 | 4305.6 | 4515.2 | 4983.1 | 5549.1 | 6185.5 | 6704.3 | 6946.1  | 7575.0  | 8591.7  |
| 60°   | 3038.1 | 3241.7 | 3502.2 | 4198.5 | 5025.0 | 6064.9 | 7281.5 | 7922.4  | 8102.8  | 9124.0  |
| 62.5° | 1944.3 | 2070.1 | 2309.6 | 2965.5 | 3915.5 | 5447.3 | 7458.2 | 9142.7  | 8997.4  | 9996.9  |
| 65°   | 1331.1 | 1412.0 | 1631.3 | 1999.7 | 2531.2 | 4054.8 | 6985.0 | 10057.5 | 10418.4 | 11380.4 |
| 67.5° | 967.3  | 1028.7 | 1215.8 | 1538.5 | 1649.3 | 2399.5 | 5420.3 | 10015.6 | 11799.7 | 12805.9 |
| 70°   | 705.2  | 748.7  | 905.9  | 1215.8 | 1269.0 | 1334.9 | 3283.6 | 8513.8  | 11769.7 | 13184.7 |
| 72.5° | 522.6  | 552.5  | 658.1  | 943.3  | 1027.2 | 901.4  | 1625.3 | 6187.7  | 10113.7 | 11925.5 |
| 75°   | 378.1  | 400.5  | 478.4  | 721.7  | 822.0  | 686.5  | 810.8  | 3616.0  | 7054.7  | 8388.8  |
| 77.5° | 289.0  | 306.2  | 357.1  | 528.6  | 658.1  | 515.1  | 503.1  | 1663.5  | 3345.0  | 3361.5  |
| 80°   | 232.1  | 243.3  | 271.0  | 372.1  | 504.6  | 385.6  | 327.9  | 671.6   | 1057.1  | 894.7   |
| 82.5° | 170.7  | 189.4  | 229.1  | 261.3  | 360.9  | 265.8  | 199.9  | 339.1   | 402.0   | 345.9   |
| 85°   | 97.3   | 110.1  | 138.5  | 187.2  | 230.6  | 162.5  | 114.5  | 150.5   | 187.2   | 153.5   |
| 87.5° | 34.4   | 44.9   | 48.7   | 73.4   | 100.3  | 67.4   | 44.2   | 43.4    | 61.4    | 45.7    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     |

REPORT NUMBER: P940115  
 CATALOG NUMBER: GALN-SB3A-740-U-T2

**CANDELA DISTRIBUTION (continued):**

| 85°     |       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2068.6  | 0°    | 2068.6  | 2068.6 | 2068.6 | 2068.6 | 2068.6 | 2068.6 | 2068.6 | 2068.6 | 2068.6 | 2068.6 |
| 2091.0  | 2.5°  | 2083.5  | 2079.8 | 2064.8 | 2044.6 | 2023.6 | 2003.4 | 1996.7 | 1982.5 | 1972.7 | 1967.5 |
| 2139.7  | 5°    | 2125.5  | 2113.5 | 2078.3 | 2033.4 | 1986.2 | 1935.3 | 1899.4 | 1866.4 | 1842.5 | 1820.0 |
| 2206.3  | 7.5°  | 2185.3  | 2164.4 | 2103.7 | 2025.1 | 1941.3 | 1856.7 | 1793.8 | 1745.9 | 1713.7 | 1692.7 |
| 2284.2  | 10°   | 2255.0  | 2222.8 | 2129.9 | 2012.4 | 1882.9 | 1761.6 | 1687.5 | 1646.3 | 1626.1 | 1614.9 |
| 2373.3  | 12.5° | 2335.1  | 2289.4 | 2156.9 | 1983.2 | 1793.8 | 1655.3 | 1604.4 | 1592.4 | 1593.2 | 1593.9 |
| 2485.6  | 15°   | 2433.9  | 2370.3 | 2178.6 | 1919.6 | 1677.8 | 1573.7 | 1564.7 | 1584.2 | 1604.4 | 1614.1 |
| 2612.8  | 17.5° | 2545.5  | 2455.6 | 2182.4 | 1814.8 | 1564.0 | 1521.3 | 1549.7 | 1591.7 | 1622.4 | 1635.8 |
| 2755.1  | 20°   | 2665.2  | 2542.5 | 2155.4 | 1666.5 | 1470.4 | 1478.6 | 1529.5 | 1583.4 | 1617.1 | 1634.3 |
| 2917.5  | 22.5° | 2802.2  | 2635.3 | 2091.0 | 1510.8 | 1394.0 | 1432.2 | 1492.1 | 1544.5 | 1579.7 | 1596.9 |
| 3108.4  | 25°   | 2958.7  | 2739.4 | 1989.9 | 1379.8 | 1328.1 | 1379.8 | 1439.7 | 1483.1 | 1511.6 | 1527.3 |
| 3321.8  | 27.5° | 3132.4  | 2847.9 | 1855.2 | 1275.7 | 1270.5 | 1325.9 | 1375.3 | 1409.0 | 1424.0 | 1435.9 |
| 3548.7  | 30°   | 3306.8  | 2946.7 | 1692.0 | 1197.1 | 1220.3 | 1272.7 | 1307.9 | 1322.9 | 1327.4 | 1329.6 |
| 3801.7  | 32.5° | 3495.5  | 3032.1 | 1520.5 | 1132.0 | 1172.4 | 1221.1 | 1242.0 | 1248.8 | 1227.8 | 1213.6 |
| 4108.7  | 35°   | 3723.8  | 3123.4 | 1352.8 | 1080.3 | 1125.2 | 1167.2 | 1173.9 | 1167.9 | 1143.2 | 1114.0 |
| 4493.5  | 37.5° | 4006.1  | 3237.2 | 1218.8 | 1043.6 | 1081.1 | 1108.8 | 1100.5 | 1099.0 | 1101.3 | 1066.8 |
| 4956.1  | 40°   | 4352.0  | 3385.5 | 1120.7 | 1015.2 | 1045.1 | 1051.1 | 1027.9 | 1040.6 | 1051.9 | 999.5  |
| 5463.7  | 42.5° | 4736.0  | 3564.4 | 1058.6 | 995.7  | 1015.2 | 1001.0 | 965.0  | 979.3  | 977.8  | 908.9  |
| 5973.6  | 45°   | 5127.6  | 3759.0 | 1036.9 | 981.5  | 987.5  | 959.0  | 919.4  | 923.1  | 891.7  | 829.5  |
| 6462.5  | 47.5° | 5516.9  | 3967.9 | 1050.4 | 969.5  | 953.0  | 920.9  | 890.2  | 873.7  | 827.3  | 780.9  |
| 6931.1  | 50°   | 5898.7  | 4187.3 | 1099.8 | 945.6  | 905.9  | 887.2  | 864.7  | 835.5  | 786.1  | 746.4  |
| 7374.3  | 52.5° | 6252.8  | 4408.1 | 1155.2 | 905.9  | 846.7  | 858.0  | 843.7  | 810.1  | 761.4  | 721.0  |
| 7793.6  | 55°   | 6588.2  | 4629.0 | 1176.9 | 851.2  | 791.3  | 832.5  | 824.3  | 762.1  | 703.7  | 670.8  |
| 8232.3  | 57.5° | 6953.6  | 4894.8 | 1152.9 | 781.6  | 746.4  | 803.3  | 771.9  | 703.0  | 669.3  | 644.6  |
| 8803.5  | 60°   | 7459.7  | 5311.8 | 1101.3 | 695.5  | 703.7  | 759.9  | 706.0  | 677.5  | 640.9  | 613.2  |
| 9660.0  | 62.5° | 8300.4  | 6089.6 | 1018.2 | 610.2  | 653.6  | 695.5  | 674.5  | 646.1  | 608.7  | 581.7  |
| 11124.4 | 65°   | 9543.2  | 7170.7 | 861.7  | 543.5  | 597.4  | 632.6  | 640.9  | 612.4  | 573.5  | 545.0  |
| 12407.6 | 67.5° | 10591.3 | 7849.0 | 652.1  | 488.1  | 539.8  | 581.7  | 604.9  | 577.2  | 536.0  | 508.3  |
| 12707.8 | 70°   | 10533.7 | 7356.4 | 497.9  | 433.5  | 488.9  | 531.6  | 561.5  | 539.8  | 495.6  | 469.4  |
| 11542.9 | 72.5° | 9356.0  | 6154.0 | 402.8  | 378.1  | 437.2  | 479.1  | 515.1  | 498.6  | 453.7  | 428.2  |
| 8456.1  | 75°   | 6873.5  | 4368.4 | 321.9  | 321.9  | 372.8  | 424.5  | 464.2  | 453.7  | 412.5  | 394.5  |
| 3550.2  | 77.5° | 2897.3  | 1832.7 | 252.3  | 267.3  | 309.9  | 364.6  | 414.0  | 417.8  | 381.8  | 404.3  |
| 938.8   | 80°   | 770.4   | 505.3  | 192.4  | 210.4  | 243.3  | 301.0  | 360.1  | 358.6  | 319.7  | 298.7  |
| 348.9   | 82.5° | 293.5   | 199.1  | 137.0  | 148.2  | 175.9  | 230.6  | 285.2  | 294.2  | 255.3  | 220.9  |
| 137.0   | 85°   | 113.0   | 85.3   | 84.6   | 89.1   | 102.6  | 152.7  | 215.6  | 223.1  | 192.4  | 163.2  |
| 38.2    | 87.5° | 29.2    | 25.5   | 31.4   | 29.9   | 47.2   | 81.6   | 123.5  | 128.0  | 117.5  | 68.1   |
| 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> |
|-------------|
| 2068.6      |
| 1973.5      |
| 1829.0      |
| 1697.2      |
| 1617.9      |
| 1595.4      |
| 1613.4      |
| 1638.8      |
| 1638.8      |
| 1601.4      |
| 1531.8      |
| 1440.4      |
| 1334.9      |
| 1218.1      |
| 1115.5      |
| 1069.1      |
| 1001.0      |
| 908.1       |
| 831.8       |
| 780.9       |
| 743.4       |
| 721.7       |
| 667.8       |
| 642.4       |
| 611.7       |
| 581.7       |
| 546.5       |
| 509.1       |
| 471.7       |
| 428.2       |
| 389.3       |
| 366.8       |
| 277.8       |
| 220.9       |
| 168.4       |
| 97.3        |
| 0.0         |

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