

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: P940025

Luminaire Tested: **GALN-SB2D-927-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940025  
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-SB2D-927-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12274 lumens  
Efficiency: N/A  
Efficacy: 83.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2

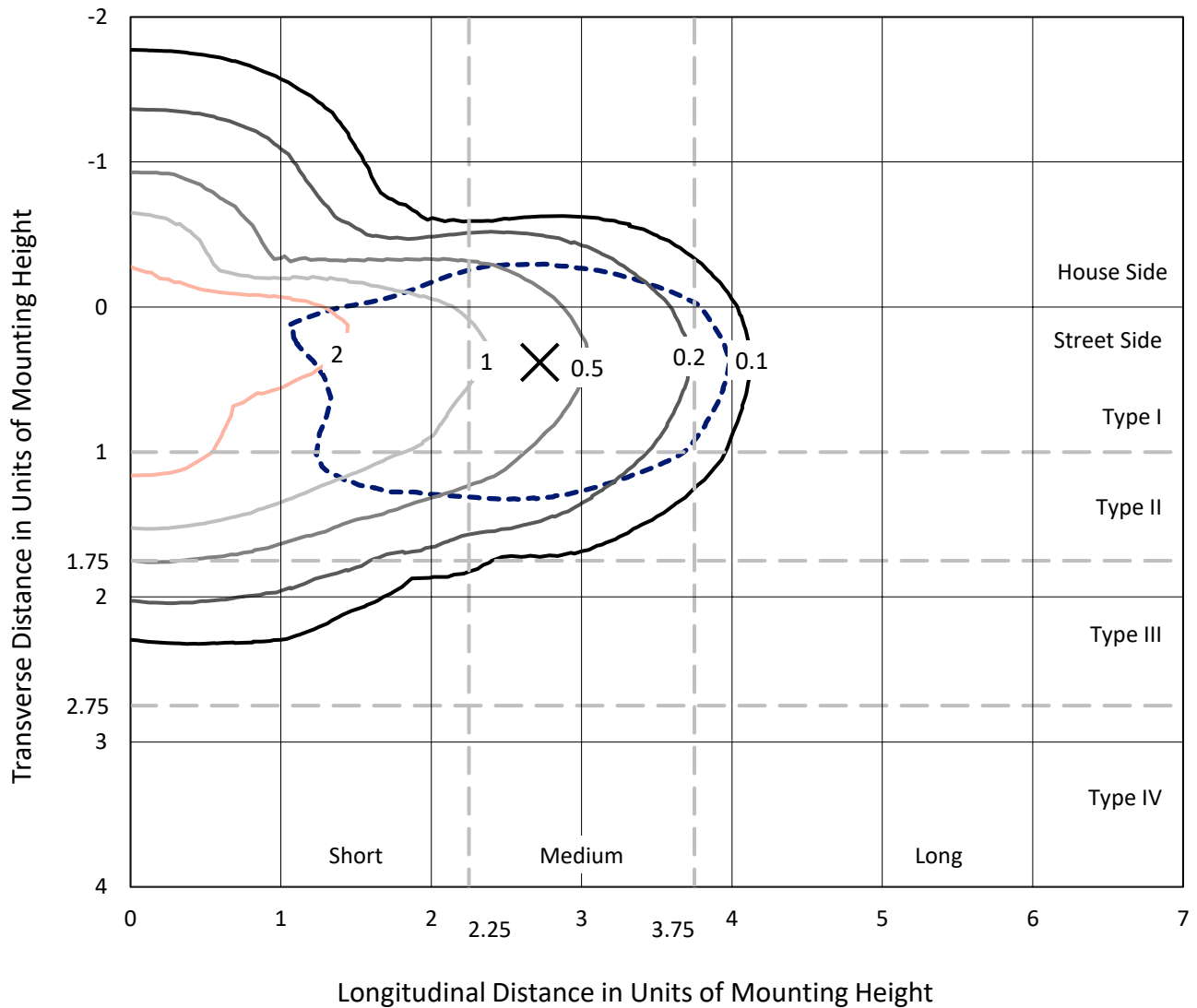
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

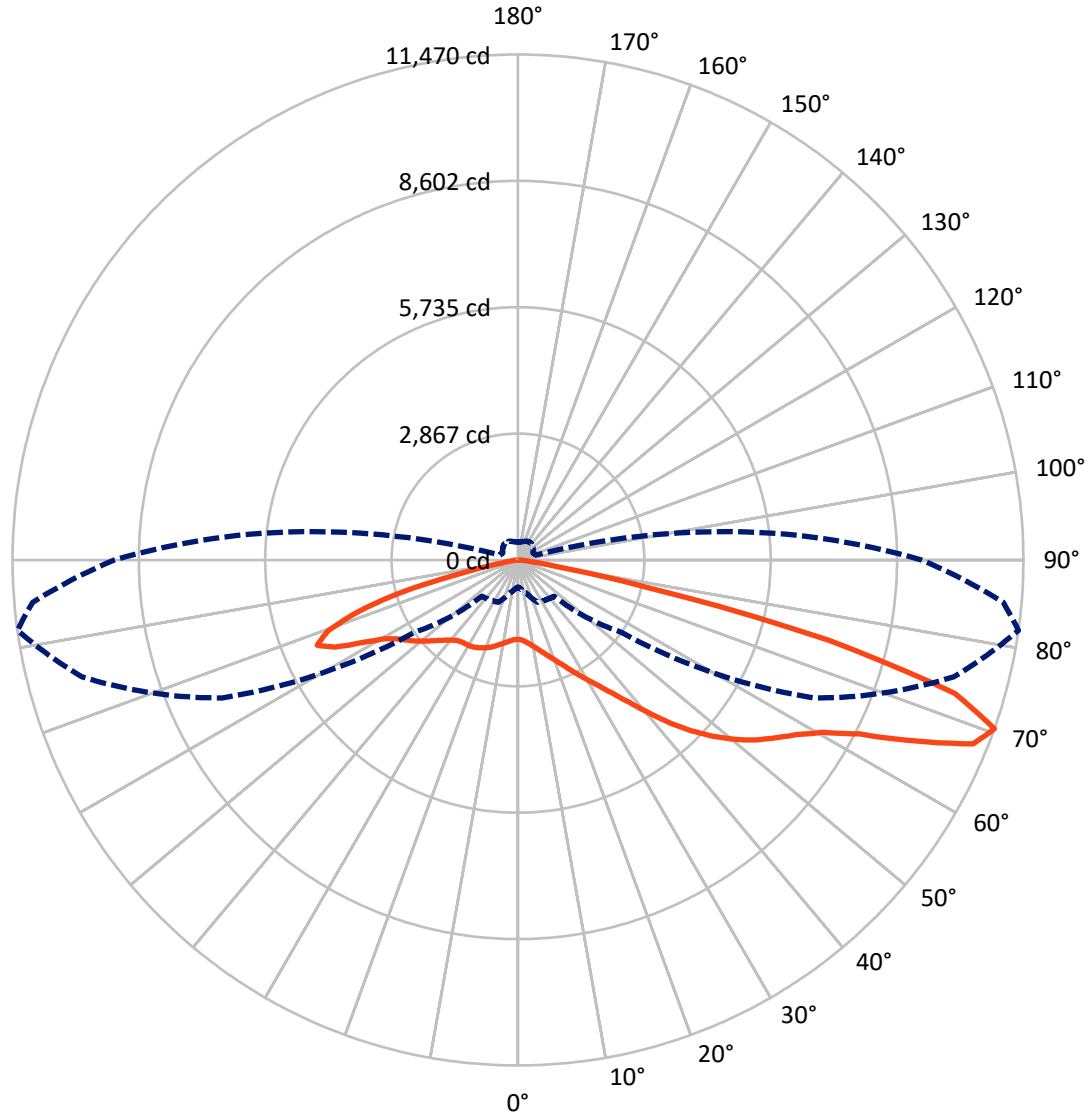
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3025.9   | 0.0    | 3025.9  |
|                    | % Fixture | 24.7     | 0.0    | 24.7    |
| <b>Street Side</b> | Lumens    | 9248.2   | 0.0    | 9248.2  |
|                    | % Fixture | 75.3     | 0.0    | 75.3    |
| <b>Total</b>       | Lumens    | 12274.0  | 0.0    | 12274.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 169.9   | 1.4       |
| 10°-20°   | 488.2   | 4.0       |
| 20°-30°   | 816.6   | 6.7       |
| 30°-40°   | 1275.8  | 10.4      |
| 40°-50°   | 2031.8  | 16.6      |
| 50°-60°   | 2827.5  | 23.0      |
| 60°-70°   | 2957.7  | 24.1      |
| 70°-80°   | 1545.9  | 12.6      |
| 80°-90°   | 160.5   | 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°    | 12274.0 | 100.0     |
| 0°-180°   | 12274.0 | 100.0     |

**Coefficient of Utilization**



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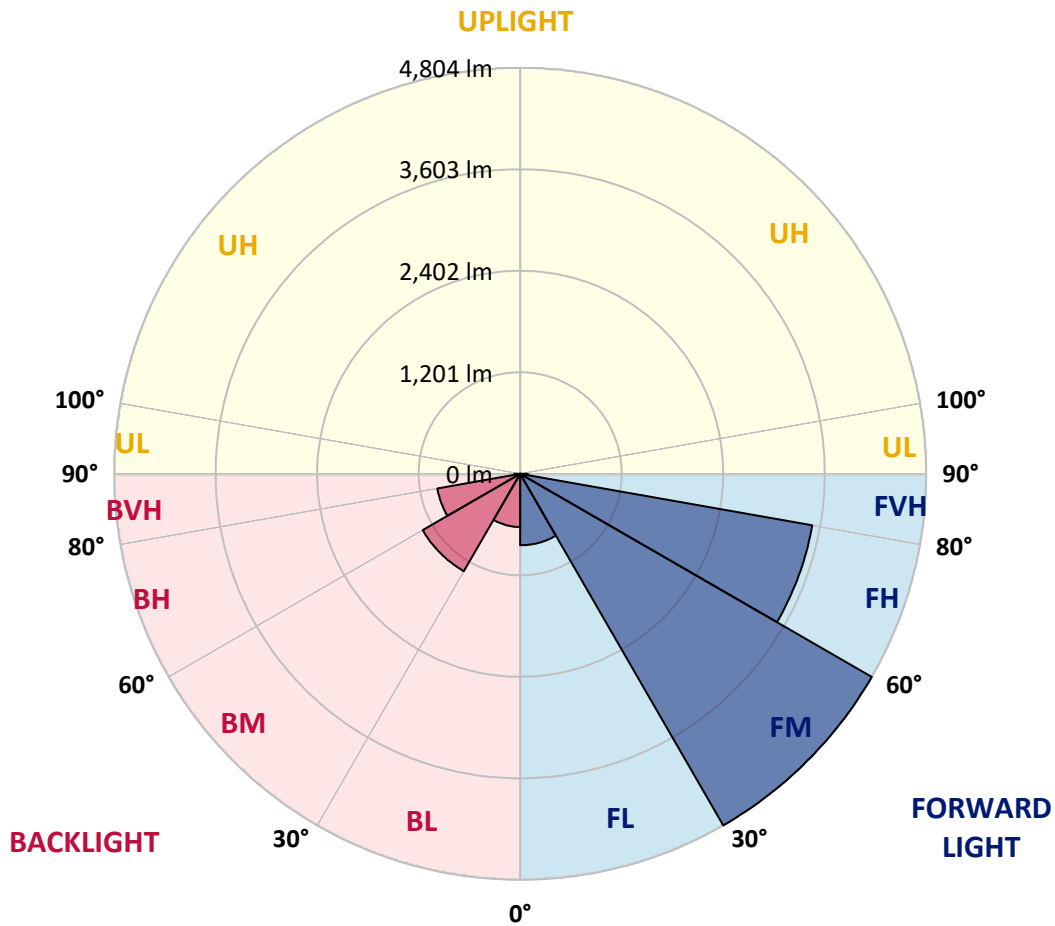
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 845.2  | 6.9       |                         |      |         |
| FM (30°-60°)   | 4803.9 | 39.1      |                         |      |         |
| FH (60°-80°)   | 3509.2 | 28.6      |                         |      | G2/5000 |
| FVH (80°-90°)  | 89.9   | 0.7       |                         |      | G1/100  |
| BL (0°-30°)    | 629.5  | 5.1       | B2/1000                 |      |         |
| BM (30°-60°)   | 1331.3 | 10.8      | B2/2500                 |      |         |
| BH (60°-80°)   | 994.4  | 8.1       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 70.7   | 0.6       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°     | 82°     |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| 0°    | 1799.5 | 1799.5 | 1799.5 | 1799.5 | 1799.5 | 1799.5 | 1799.5 | 1799.5 | 1799.5  | 1799.5  |
| 2.5°  | 1842.5 | 1852.9 | 1849.7 | 1846.4 | 1846.4 | 1841.9 | 1841.2 | 1834.7 | 1829.5  | 1821.0  |
| 5°    | 1866.0 | 1877.0 | 1875.7 | 1878.3 | 1886.8 | 1888.7 | 1890.7 | 1886.8 | 1876.4  | 1866.0  |
| 7.5°  | 1845.1 | 1857.5 | 1861.4 | 1877.0 | 1903.1 | 1926.5 | 1944.1 | 1951.3 | 1941.5  | 1926.5  |
| 10°   | 1774.8 | 1788.4 | 1802.1 | 1839.3 | 1885.5 | 1940.9 | 1987.7 | 2015.8 | 2013.8  | 1999.5  |
| 12.5° | 1632.1 | 1646.5 | 1675.8 | 1748.1 | 1832.7 | 1930.4 | 2017.7 | 2076.3 | 2096.5  | 2086.1  |
| 15°   | 1518.2 | 1530.5 | 1552.7 | 1626.9 | 1737.0 | 1885.5 | 2028.8 | 2142.8 | 2194.2  | 2188.3  |
| 17.5° | 1514.9 | 1520.1 | 1533.8 | 1569.0 | 1653.6 | 1815.2 | 2017.1 | 2207.9 | 2306.2  | 2305.6  |
| 20°   | 1572.2 | 1574.2 | 1582.0 | 1589.2 | 1637.3 | 1761.7 | 1987.1 | 2261.9 | 2431.9  | 2431.9  |
| 22.5° | 1651.7 | 1650.4 | 1658.2 | 1651.7 | 1675.1 | 1757.2 | 1968.2 | 2309.5 | 2572.0  | 2582.4  |
| 25°   | 1770.9 | 1764.4 | 1762.4 | 1747.4 | 1752.0 | 1799.5 | 1989.0 | 2363.5 | 2738.0  | 2759.5  |
| 27.5° | 1929.8 | 1919.4 | 1912.2 | 1877.7 | 1866.0 | 1886.8 | 2052.9 | 2428.7 | 2923.0  | 2960.1  |
| 30°   | 2136.9 | 2118.0 | 2107.6 | 2047.7 | 2005.3 | 2008.6 | 2149.3 | 2515.3 | 3116.4  | 3176.4  |
| 32.5° | 2419.6 | 2390.2 | 2362.2 | 2263.9 | 2186.4 | 2161.0 | 2273.7 | 2635.1 | 3326.2  | 3421.9  |
| 35°   | 2736.1 | 2712.6 | 2682.7 | 2530.9 | 2411.7 | 2353.1 | 2441.7 | 2802.5 | 3571.7  | 3723.4  |
| 37.5° | 3040.9 | 3020.7 | 3035.0 | 2830.5 | 2676.8 | 2591.5 | 2661.8 | 3027.2 | 3874.5  | 4098.6  |
| 40°   | 3356.1 | 3340.5 | 3342.4 | 3147.0 | 2967.9 | 2872.2 | 2928.9 | 3309.2 | 4221.7  | 4544.7  |
| 42.5° | 3698.7 | 3687.0 | 3647.9 | 3474.6 | 3273.4 | 3184.2 | 3236.3 | 3634.9 | 4594.2  | 5052.7  |
| 45°   | 4082.3 | 4075.1 | 4038.7 | 3840.0 | 3609.5 | 3509.2 | 3579.5 | 3994.4 | 4968.7  | 5530.8  |
| 47.5° | 4413.8 | 4419.7 | 4415.1 | 4247.7 | 4008.7 | 3861.5 | 3945.5 | 4369.5 | 5317.2  | 5980.2  |
| 50°   | 4573.4 | 4604.0 | 4648.9 | 4596.8 | 4448.3 | 4298.5 | 4314.8 | 4731.6 | 5649.3  | 6401.6  |
| 52.5° | 4490.0 | 4548.0 | 4670.4 | 4753.8 | 4811.1 | 4779.8 | 4736.2 | 5091.2 | 5961.9  | 6781.9  |
| 55°   | 4179.3 | 4260.8 | 4464.0 | 4665.2 | 4957.6 | 5184.9 | 5242.3 | 5489.7 | 6266.7  | 7116.7  |
| 57.5° | 3613.4 | 3745.6 | 3927.9 | 4335.0 | 4827.4 | 5381.0 | 5832.3 | 6042.7 | 6589.8  | 7474.2  |
| 60°   | 2642.9 | 2820.1 | 3046.7 | 3652.4 | 4371.5 | 5276.1 | 6334.5 | 6892.0 | 7048.9  | 7937.3  |
| 62.5° | 1691.4 | 1800.8 | 2009.2 | 2579.8 | 3406.3 | 4738.8 | 6488.2 | 7953.6 | 7827.2  | 8696.7  |
| 65°   | 1158.0 | 1228.3 | 1419.2 | 1739.6 | 2202.0 | 3527.4 | 6076.6 | 8749.5 | 9063.4  | 9900.3  |
| 67.5° | 841.5  | 894.9  | 1057.7 | 1338.4 | 1434.8 | 2087.4 | 4715.4 | 8713.0 | 10265.0 | 11140.4 |
| 70°   | 613.5  | 651.3  | 788.1  | 1057.7 | 1103.9 | 1161.3 | 2856.6 | 7406.5 | 10239.0 | 11469.9 |
| 72.5° | 454.6  | 480.7  | 572.5  | 820.6  | 893.6  | 784.2  | 1414.0 | 5382.9 | 8798.3  | 10374.4 |
| 75°   | 328.9  | 348.4  | 416.2  | 627.8  | 715.1  | 597.2  | 705.4  | 3145.7 | 6137.1  | 7297.7  |
| 77.5° | 251.4  | 266.4  | 310.7  | 459.8  | 572.5  | 448.1  | 437.7  | 1447.2 | 2910.0  | 2924.3  |
| 80°   | 201.9  | 211.7  | 235.8  | 323.7  | 439.0  | 335.4  | 285.3  | 584.2  | 919.6   | 778.3   |
| 82.5° | 148.5  | 164.8  | 199.3  | 227.3  | 313.9  | 231.2  | 173.9  | 295.0  | 349.7   | 300.9   |
| 85°   | 84.7   | 95.7   | 120.5  | 162.8  | 200.6  | 141.3  | 99.6   | 130.9  | 162.8   | 133.5   |
| 87.5° | 30.0   | 39.1   | 42.3   | 63.8   | 87.3   | 58.6   | 38.4   | 37.8   | 53.4    | 39.7    |
| 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°   |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1799.5  | 0°    | 1799.5 | 1799.5 | 1799.5 | 1799.5 | 1799.5 | 1799.5 | 1799.5 | 1799.5 | 1799.5 | 1799.5 |
| 1819.1  | 2.5°  | 1812.5 | 1809.3 | 1796.3 | 1778.7 | 1760.4 | 1742.9 | 1737.0 | 1724.6 | 1716.2 | 1711.6 |
| 1861.4  | 5°    | 1849.0 | 1838.6 | 1808.0 | 1768.9 | 1727.9 | 1683.6 | 1652.3 | 1623.7 | 1602.8 | 1583.3 |
| 1919.4  | 7.5°  | 1901.1 | 1882.9 | 1830.1 | 1761.7 | 1688.8 | 1615.2 | 1560.5 | 1518.8 | 1490.8 | 1472.6 |
| 1987.1  | 10°   | 1961.7 | 1933.7 | 1852.9 | 1750.7 | 1638.0 | 1532.5 | 1468.0 | 1432.2 | 1414.6 | 1404.8 |
| 2064.6  | 12.5° | 2031.4 | 1991.7 | 1876.4 | 1725.3 | 1560.5 | 1440.0 | 1395.7 | 1385.3 | 1386.0 | 1386.6 |
| 2162.3  | 15°   | 2117.4 | 2062.0 | 1895.3 | 1669.9 | 1459.5 | 1369.0 | 1361.2 | 1378.1 | 1395.7 | 1404.2 |
| 2273.0  | 17.5° | 2214.4 | 2136.2 | 1898.5 | 1578.7 | 1360.6 | 1323.4 | 1348.2 | 1384.6 | 1411.4 | 1423.1 |
| 2396.8  | 20°   | 2318.6 | 2211.8 | 1875.1 | 1449.8 | 1279.1 | 1286.3 | 1330.6 | 1377.5 | 1406.8 | 1421.8 |
| 2538.1  | 22.5° | 2437.8 | 2292.6 | 1819.1 | 1314.3 | 1212.7 | 1245.9 | 1298.0 | 1343.6 | 1374.2 | 1389.2 |
| 2704.2  | 25°   | 2573.9 | 2383.1 | 1731.1 | 1200.3 | 1155.4 | 1200.3 | 1252.4 | 1290.2 | 1315.0 | 1328.6 |
| 2889.8  | 27.5° | 2725.0 | 2477.5 | 1613.9 | 1109.8 | 1105.2 | 1153.4 | 1196.4 | 1225.7 | 1238.8 | 1249.2 |
| 3087.1  | 30°   | 2876.8 | 2563.5 | 1471.9 | 1041.4 | 1061.6 | 1107.2 | 1137.8 | 1150.8 | 1154.7 | 1156.7 |
| 3307.3  | 32.5° | 3040.9 | 2637.7 | 1322.8 | 984.8  | 1019.9 | 1062.3 | 1080.5 | 1086.4 | 1068.1 | 1055.7 |
| 3574.3  | 35°   | 3239.5 | 2717.2 | 1176.9 | 939.8  | 978.9  | 1015.4 | 1021.2 | 1016.0 | 994.5  | 969.1  |
| 3909.1  | 37.5° | 3485.1 | 2816.2 | 1060.3 | 907.9  | 940.5  | 964.6  | 957.4  | 956.1  | 958.1  | 928.1  |
| 4311.6  | 40°   | 3786.0 | 2945.1 | 975.0  | 883.2  | 909.2  | 914.4  | 894.2  | 905.3  | 915.1  | 869.5  |
| 4753.1  | 42.5° | 4120.1 | 3100.8 | 920.9  | 866.2  | 883.2  | 870.8  | 839.5  | 851.9  | 850.6  | 790.7  |
| 5196.7  | 45°   | 4460.7 | 3270.1 | 902.0  | 853.8  | 859.1  | 834.3  | 799.8  | 803.0  | 775.7  | 721.6  |
| 5622.0  | 47.5° | 4799.4 | 3451.9 | 913.8  | 843.4  | 829.1  | 801.1  | 774.4  | 760.1  | 719.7  | 679.3  |
| 6029.7  | 50°   | 5131.5 | 3642.7 | 956.7  | 822.6  | 788.1  | 771.8  | 752.2  | 726.8  | 683.9  | 649.3  |
| 6415.2  | 52.5° | 5439.6 | 3834.8 | 1004.9 | 788.1  | 736.6  | 746.4  | 734.0  | 704.7  | 662.4  | 627.2  |
| 6780.0  | 55°   | 5731.4 | 4026.9 | 1023.8 | 740.5  | 688.4  | 724.2  | 717.1  | 663.0  | 612.2  | 583.6  |
| 7161.6  | 57.5° | 6049.2 | 4258.2 | 1003.0 | 679.9  | 649.3  | 698.8  | 671.5  | 611.6  | 582.3  | 560.8  |
| 7658.6  | 60°   | 6489.5 | 4620.9 | 958.1  | 605.1  | 612.2  | 661.1  | 614.2  | 589.4  | 557.5  | 533.4  |
| 8403.6  | 62.5° | 7220.9 | 5297.6 | 885.8  | 530.8  | 568.6  | 605.1  | 586.8  | 562.1  | 529.5  | 506.1  |
| 9677.6  | 65°   | 8302.0 | 6238.1 | 749.6  | 472.8  | 519.7  | 550.3  | 557.5  | 532.8  | 498.9  | 474.1  |
| 10793.9 | 67.5° | 9213.8 | 6828.2 | 567.3  | 424.6  | 469.6  | 506.1  | 526.2  | 502.1  | 466.3  | 442.2  |
| 11055.0 | 70°   | 9163.7 | 6399.6 | 433.1  | 377.1  | 425.3  | 462.4  | 488.5  | 469.6  | 431.2  | 408.4  |
| 10041.6 | 72.5° | 8139.2 | 5353.6 | 350.4  | 328.9  | 380.4  | 416.8  | 448.1  | 433.8  | 394.7  | 372.5  |
| 7356.4  | 75°   | 5979.5 | 3800.3 | 280.1  | 280.1  | 324.3  | 369.3  | 403.8  | 394.7  | 358.9  | 343.2  |
| 3088.4  | 77.5° | 2520.5 | 1594.4 | 219.5  | 232.5  | 269.6  | 317.2  | 360.2  | 363.4  | 332.2  | 351.7  |
| 816.7   | 80°   | 670.2  | 439.6  | 167.4  | 183.0  | 211.7  | 261.8  | 313.3  | 312.0  | 278.1  | 259.9  |
| 303.5   | 82.5° | 255.3  | 173.2  | 119.2  | 129.0  | 153.1  | 200.6  | 248.1  | 256.0  | 222.1  | 192.1  |
| 119.2   | 85°   | 98.3   | 74.2   | 73.6   | 77.5   | 89.2   | 132.9  | 187.6  | 194.1  | 167.4  | 142.0  |
| 33.2    | 87.5° | 25.4   | 22.1   | 27.4   | 26.1   | 41.0   | 71.0   | 107.5  | 111.4  | 102.3  | 59.3   |
| 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> |
|-------------|
| 1799.5      |
| 1716.8      |
| 1591.1      |
| 1476.5      |
| 1407.4      |
| 1387.9      |
| 1403.5      |
| 1425.7      |
| 1425.7      |
| 1393.1      |
| 1332.5      |
| 1253.1      |
| 1161.3      |
| 1059.7      |
| 970.4       |
| 930.0       |
| 870.8       |
| 790.0       |
| 723.6       |
| 679.3       |
| 646.7       |
| 627.8       |
| 581.0       |
| 558.8       |
| 532.1       |
| 506.1       |
| 475.4       |
| 442.9       |
| 410.3       |
| 372.5       |
| 338.7       |
| 319.1       |
| 241.6       |
| 192.1       |
| 146.5       |
| 84.7        |
| 0.0         |

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