

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: P946203

Luminaire Tested: **GALN-SB1D-935-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946203  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1D-935-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 3500K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

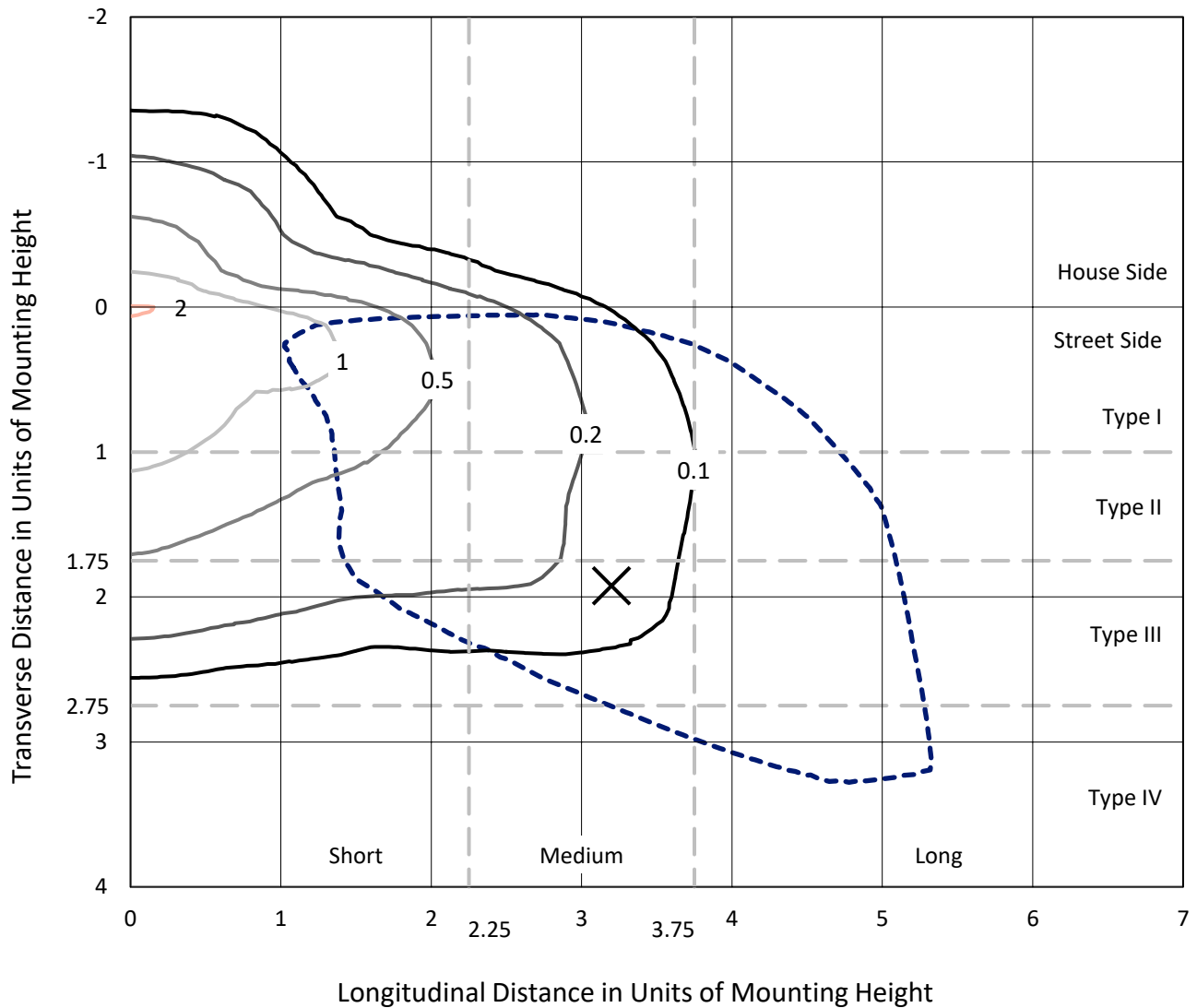
Lumens per Lamp: N/A  
Luminaire Lumens: 6921 lumens  
Efficiency: N/A  
Efficacy: 86.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

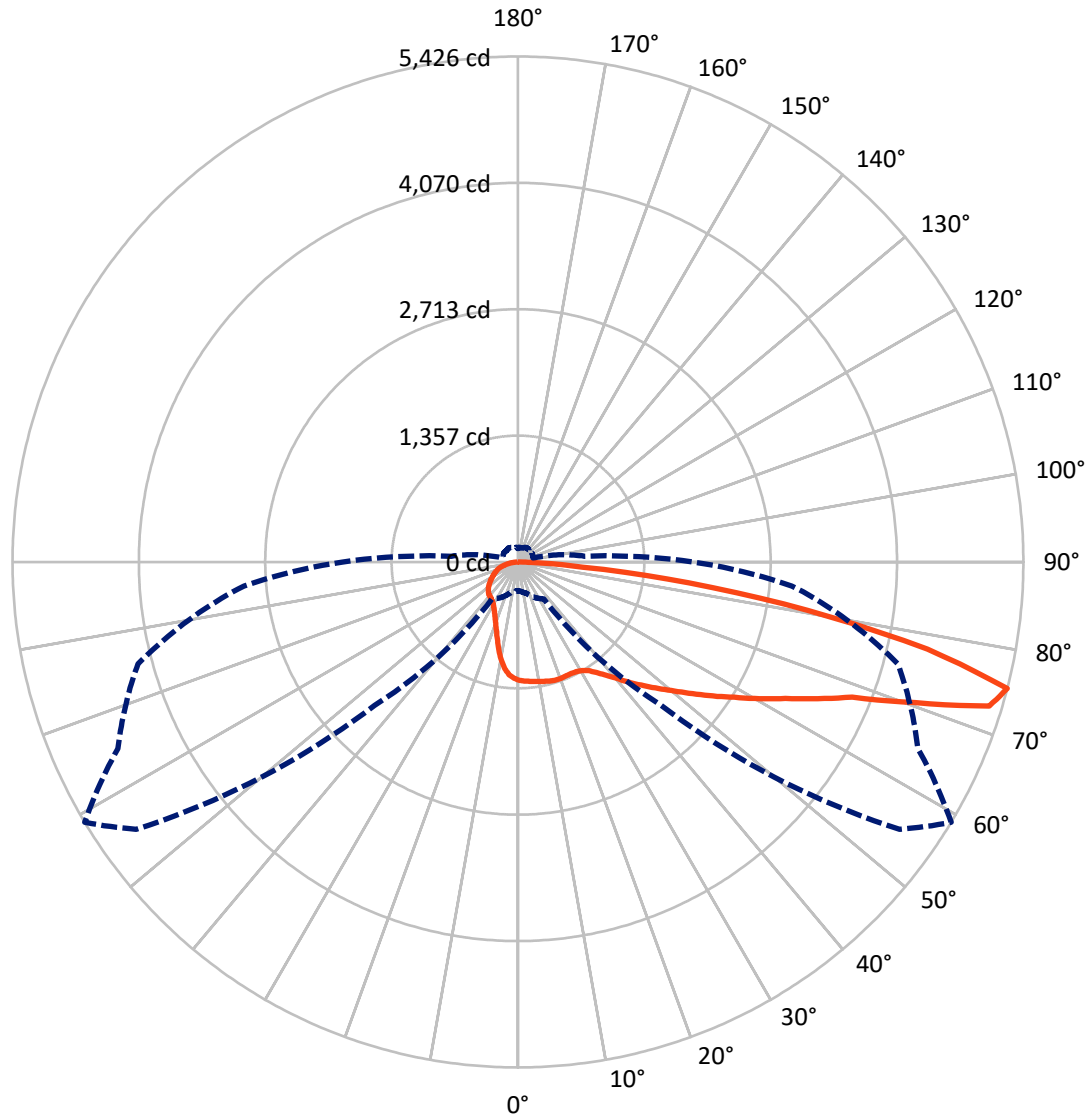
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1298.1   | 0.0    | 1298.1 |
|                    | % Fixture | 18.8     | 0.0    | 18.8   |
| <b>Street Side</b> | Lumens    | 5622.9   | 0.0    | 5622.9 |
|                    | % Fixture | 81.2     | 0.0    | 81.2   |
| <b>Total</b>       | Lumens    | 6921.0   | 0.0    | 6921.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 113.9  | 1.6       |
| 10°-20°   | 291.2  | 4.2       |
| 20°-30°   | 442.2  | 6.4       |
| 30°-40°   | 657.4  | 9.5       |
| 40°-50°   | 977.6  | 14.1      |
| 50°-60°   | 1327.0 | 19.2      |
| 60°-70°   | 1620.1 | 23.4      |
| 70°-80°   | 1271.4 | 18.4      |
| 80°-90°   | 220.2  | 3.2       |
| 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°    | 6921.0 | 100.0     |
| 0°-180°   | 6921.0 | 100.0     |

**Coefficient of Utilization**



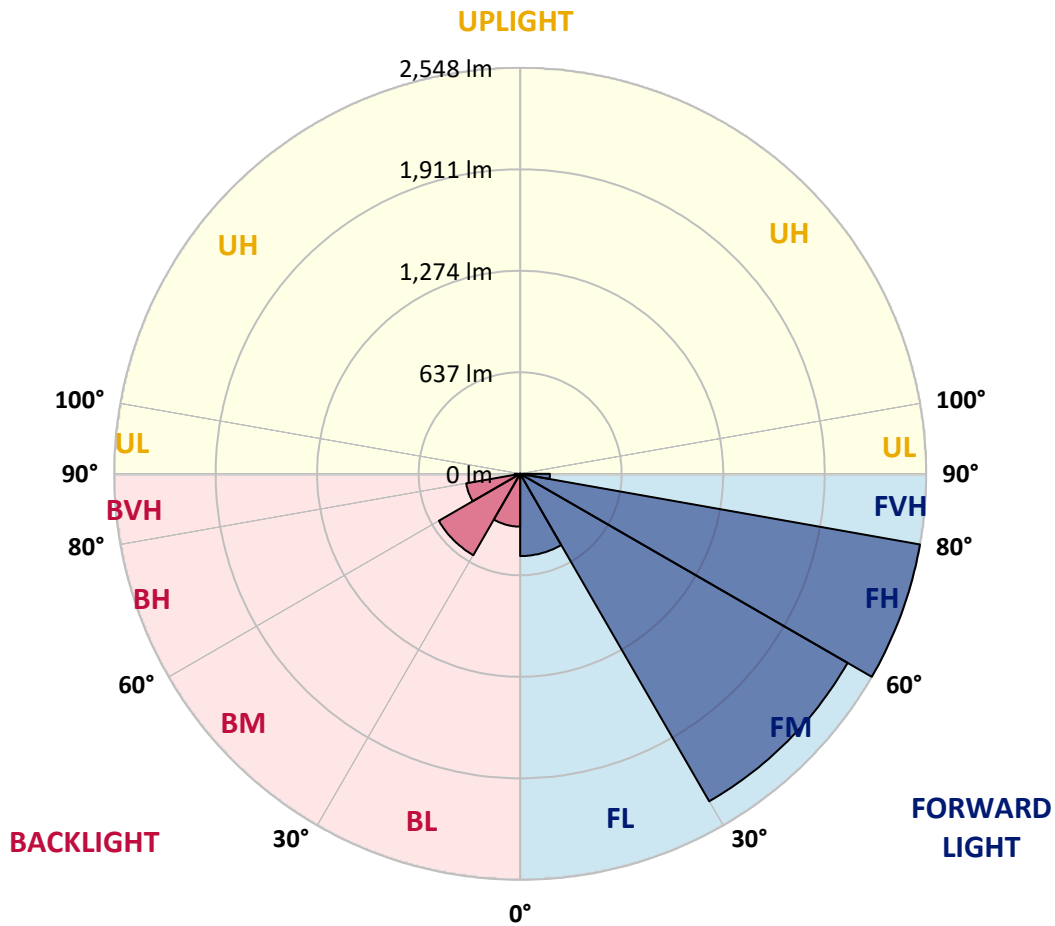
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 516.0  | 7.5       |                         |      |         |
| FM   | (30°-60°)   | 2372.8 | 34.3      |                         |      |         |
| FH   | (60°-80°)   | 2547.5 | 36.8      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 186.5  | 2.7       |                         |      | G2/225  |
| BL   | (0°-30°)    | 331.3  | 4.8       | B1/500                  |      |         |
| BM   | (30°-60°)   | 589.2  | 8.5       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 343.9  | 5.0       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 33.7   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 59°    | 65°    | 75°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1270.3 | 1270.3 | 1270.3 | 1270.3 | 1270.3 | 1270.3 | 1270.3 | 1270.3 | 1270.3 | 1270.3 |
| 2.5°  | 1281.1 | 1276.7 | 1281.1 | 1279.3 | 1278.5 | 1277.0 | 1277.4 | 1280.0 | 1278.5 | 1280.4 |
| 5°    | 1272.6 | 1270.0 | 1274.4 | 1273.3 | 1278.2 | 1278.9 | 1283.7 | 1286.7 | 1288.6 | 1288.9 |
| 7.5°  | 1258.4 | 1255.8 | 1262.1 | 1267.4 | 1277.8 | 1280.8 | 1290.8 | 1295.7 | 1298.3 | 1302.7 |
| 10°   | 1206.7 | 1205.6 | 1221.2 | 1240.9 | 1265.5 | 1280.8 | 1296.0 | 1304.2 | 1308.3 | 1320.2 |
| 12.5° | 1115.1 | 1116.6 | 1137.0 | 1175.0 | 1224.2 | 1273.3 | 1302.0 | 1313.9 | 1320.2 | 1335.1 |
| 15°   | 1027.6 | 1027.2 | 1049.6 | 1090.1 | 1159.0 | 1240.5 | 1305.0 | 1325.4 | 1336.2 | 1358.2 |
| 17.5° | 977.0  | 975.5  | 991.1  | 1022.0 | 1086.0 | 1190.3 | 1297.5 | 1331.8 | 1354.8 | 1382.4 |
| 20°   | 967.6  | 964.7  | 972.9  | 988.1  | 1033.5 | 1135.2 | 1278.2 | 1331.8 | 1369.7 | 1405.5 |
| 22.5° | 1001.5 | 996.7  | 993.3  | 991.5  | 1011.6 | 1089.8 | 1256.2 | 1327.3 | 1391.7 | 1438.6 |
| 25°   | 1069.7 | 1062.2 | 1045.1 | 1028.3 | 1022.4 | 1069.3 | 1236.8 | 1326.2 | 1424.5 | 1483.3 |
| 27.5° | 1179.9 | 1170.6 | 1135.9 | 1095.7 | 1059.6 | 1079.7 | 1228.3 | 1332.9 | 1460.6 | 1530.6 |
| 30°   | 1316.5 | 1306.4 | 1262.9 | 1201.1 | 1136.3 | 1118.4 | 1239.1 | 1352.6 | 1506.8 | 1593.5 |
| 32.5° | 1439.0 | 1427.8 | 1390.6 | 1327.7 | 1240.2 | 1185.4 | 1273.3 | 1390.2 | 1579.4 | 1681.0 |
| 35°   | 1547.7 | 1534.7 | 1501.2 | 1443.1 | 1367.5 | 1279.6 | 1335.1 | 1456.9 | 1682.5 | 1823.2 |
| 37.5° | 1654.2 | 1638.9 | 1602.4 | 1541.0 | 1488.1 | 1405.1 | 1420.4 | 1542.5 | 1819.5 | 1996.0 |
| 40°   | 1773.3 | 1751.4 | 1707.1 | 1646.4 | 1595.0 | 1552.2 | 1532.4 | 1647.5 | 1958.7 | 2188.8 |
| 42.5° | 1888.7 | 1867.9 | 1815.0 | 1763.3 | 1698.9 | 1686.6 | 1662.4 | 1770.4 | 2111.0 | 2400.7 |
| 45°   | 2013.1 | 1988.2 | 1924.1 | 1858.6 | 1818.0 | 1775.9 | 1788.2 | 1893.2 | 2260.3 | 2616.6 |
| 47.5° | 2129.6 | 2101.7 | 2026.1 | 1953.2 | 1930.8 | 1851.1 | 1903.6 | 2028.4 | 2415.6 | 2835.5 |
| 50°   | 2192.6 | 2165.0 | 2102.1 | 2036.2 | 2018.7 | 1943.8 | 2028.7 | 2176.9 | 2578.3 | 3053.7 |
| 52.5° | 2245.1 | 2215.3 | 2133.0 | 2096.5 | 2091.3 | 2044.7 | 2182.9 | 2346.7 | 2741.0 | 3246.6 |
| 55°   | 2300.9 | 2267.8 | 2162.8 | 2130.0 | 2153.8 | 2157.9 | 2365.7 | 2539.2 | 2913.0 | 3434.6 |
| 57.5° | 2365.3 | 2323.2 | 2191.4 | 2158.3 | 2214.9 | 2290.5 | 2575.7 | 2738.7 | 3082.0 | 3608.8 |
| 60°   | 2426.0 | 2383.6 | 2246.5 | 2203.4 | 2280.8 | 2444.2 | 2816.6 | 2980.4 | 3273.4 | 3764.1 |
| 62.5° | 2437.9 | 2402.9 | 2290.5 | 2290.1 | 2370.1 | 2623.7 | 3101.7 | 3224.2 | 3440.6 | 3917.5 |
| 65°   | 2231.6 | 2209.7 | 2143.0 | 2286.8 | 2498.2 | 2882.1 | 3419.3 | 3536.2 | 3653.1 | 4051.5 |
| 67.5° | 1698.5 | 1701.5 | 1696.6 | 1974.0 | 2394.7 | 3253.3 | 3879.1 | 3870.2 | 3915.6 | 4201.9 |
| 70°   | 776.6  | 794.1  | 908.1  | 1362.7 | 1918.5 | 3296.1 | 4639.4 | 4523.6 | 4245.1 | 4396.7 |
| 72.5° | 419.6  | 433.0  | 479.5  | 660.1  | 1153.4 | 2930.5 | 5207.6 | 5289.8 | 4683.3 | 4527.7 |
| 75°   | 307.9  | 315.3  | 347.7  | 419.6  | 484.4  | 2178.0 | 5003.9 | 5426.1 | 4738.1 | 4222.0 |
| 77.5° | 230.5  | 233.8  | 260.2  | 332.5  | 248.0  | 1148.2 | 3998.3 | 4493.8 | 4056.0 | 3468.8 |
| 80°   | 167.2  | 170.9  | 190.6  | 249.5  | 173.9  | 420.0  | 2745.4 | 3154.2 | 2777.8 | 2211.2 |
| 82.5° | 115.4  | 116.9  | 125.5  | 169.8  | 121.4  | 163.1  | 1557.8 | 1849.7 | 1550.7 | 775.9  |
| 85°   | 69.6   | 71.5   | 75.2   | 99.0   | 68.9   | 77.4   | 672.4  | 695.5  | 463.5  | 185.4  |
| 87.5° | 28.7   | 30.5   | 33.5   | 41.7   | 27.2   | 21.6   | 110.9  | 139.2  | 86.7   | 54.4   |
| 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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**CANDELA DISTRIBUTION (continued):**

| 85°    |       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1270.3 | 0°    | 1270.3 | 1270.3 | 1270.3 | 1270.3 | 1270.3 | 1270.3 | 1270.3 | 1270.3 | 1270.3 | 1270.3 |
| 1274.1 | 2.5°  | 1272.2 | 1269.6 | 1262.5 | 1252.8 | 1243.9 | 1232.7 | 1227.9 | 1223.8 | 1220.1 | 1213.0 |
| 1284.1 | 5°    | 1280.0 | 1272.9 | 1254.0 | 1229.4 | 1201.5 | 1170.9 | 1141.1 | 1120.7 | 1103.2 | 1090.1 |
| 1295.7 | 7.5°  | 1291.9 | 1278.5 | 1243.9 | 1193.6 | 1129.6 | 1064.1 | 1004.9 | 962.8  | 931.2  | 919.6  |
| 1312.0 | 10°   | 1304.2 | 1288.2 | 1227.9 | 1139.3 | 1028.7 | 927.8  | 849.2  | 806.1  | 780.7  | 772.6  |
| 1331.4 | 12.5° | 1318.7 | 1295.3 | 1202.9 | 1063.7 | 915.9  | 805.3  | 736.8  | 711.5  | 698.5  | 694.0  |
| 1355.2 | 15°   | 1340.0 | 1301.2 | 1165.3 | 969.1  | 808.3  | 716.0  | 671.7  | 654.2  | 647.5  | 647.1  |
| 1379.8 | 17.5° | 1356.0 | 1302.4 | 1106.9 | 867.9  | 725.6  | 662.0  | 625.5  | 618.8  | 623.3  | 630.0  |
| 1404.0 | 20°   | 1373.8 | 1292.3 | 1030.2 | 775.5  | 667.6  | 614.7  | 599.4  | 603.9  | 614.7  | 624.4  |
| 1436.0 | 22.5° | 1386.5 | 1274.1 | 937.5  | 703.7  | 617.3  | 587.5  | 586.8  | 596.1  | 602.0  | 606.9  |
| 1473.6 | 25°   | 1397.7 | 1243.2 | 839.2  | 643.4  | 576.0  | 571.1  | 579.3  | 576.3  | 572.2  | 576.3  |
| 1511.2 | 27.5° | 1405.9 | 1194.4 | 751.3  | 590.5  | 546.9  | 560.0  | 555.1  | 548.4  | 548.0  | 550.3  |
| 1555.5 | 30°   | 1403.3 | 1129.2 | 679.1  | 540.2  | 526.5  | 539.1  | 527.6  | 526.5  | 525.3  | 526.5  |
| 1622.2 | 32.5° | 1403.3 | 1055.1 | 623.6  | 505.6  | 513.4  | 508.6  | 507.5  | 504.9  | 500.4  | 500.0  |
| 1712.6 | 35°   | 1411.1 | 981.0  | 576.0  | 487.0  | 502.6  | 491.1  | 491.8  | 485.5  | 476.2  | 471.7  |
| 1832.5 | 37.5° | 1427.1 | 921.5  | 528.7  | 478.1  | 483.6  | 483.3  | 480.3  | 469.5  | 453.1  | 439.0  |
| 1982.2 | 40°   | 1465.8 | 904.0  | 496.3  | 474.0  | 474.7  | 479.2  | 471.3  | 450.5  | 413.3  | 390.2  |
| 2134.1 | 42.5° | 1526.5 | 933.4  | 489.2  | 463.9  | 468.7  | 473.2  | 457.9  | 409.5  | 383.1  | 369.3  |
| 2293.5 | 45°   | 1603.6 | 984.8  | 504.5  | 449.4  | 454.6  | 462.4  | 417.0  | 393.9  | 382.0  | 382.4  |
| 2451.3 | 47.5° | 1701.1 | 1038.8 | 532.8  | 436.7  | 434.1  | 438.6  | 389.8  | 375.7  | 359.3  | 363.4  |
| 2602.8 | 50°   | 1813.9 | 1093.5 | 559.6  | 419.6  | 411.4  | 396.9  | 372.3  | 358.9  | 338.1  | 328.4  |
| 2749.2 | 52.5° | 1936.0 | 1146.4 | 570.4  | 398.7  | 386.8  | 370.1  | 360.4  | 344.0  | 318.7  | 302.7  |
| 2887.3 | 55°   | 2051.8 | 1194.4 | 558.5  | 373.8  | 362.3  | 349.2  | 347.7  | 337.7  | 310.5  | 288.2  |
| 3010.2 | 57.5° | 2161.3 | 1234.6 | 528.7  | 348.5  | 337.3  | 329.5  | 339.6  | 334.7  | 300.5  | 271.8  |
| 3126.3 | 60°   | 2254.0 | 1262.1 | 485.5  | 322.8  | 315.0  | 310.9  | 326.1  | 324.7  | 286.3  | 254.3  |
| 3230.6 | 62.5° | 2327.7 | 1272.9 | 437.8  | 298.2  | 296.4  | 288.9  | 307.5  | 307.5  | 268.4  | 237.2  |
| 3322.2 | 65°   | 2385.4 | 1262.5 | 389.4  | 274.0  | 277.7  | 266.6  | 284.8  | 282.6  | 249.5  | 221.9  |
| 3427.5 | 67.5° | 2436.4 | 1228.3 | 335.8  | 250.2  | 258.8  | 244.6  | 261.0  | 255.8  | 228.6  | 206.6  |
| 3518.7 | 70°   | 2459.1 | 1148.6 | 274.8  | 226.4  | 236.8  | 223.0  | 237.2  | 227.5  | 205.1  | 190.3  |
| 3418.6 | 72.5° | 2276.7 | 954.6  | 216.3  | 201.4  | 210.4  | 199.2  | 211.5  | 200.3  | 179.8  | 173.1  |
| 2952.1 | 75°   | 1883.5 | 716.3  | 166.4  | 174.2  | 180.9  | 172.4  | 180.6  | 172.4  | 153.8  | 158.6  |
| 2180.6 | 77.5° | 1367.9 | 483.6  | 127.3  | 145.6  | 148.6  | 144.1  | 151.2  | 141.9  | 125.1  | 124.0  |
| 1086.8 | 80°   | 680.2  | 283.3  | 99.8   | 115.0  | 113.9  | 110.9  | 119.1  | 114.7  | 100.5  | 106.5  |
| 293.4  | 82.5° | 197.0  | 121.4  | 72.6   | 80.8   | 78.6   | 79.3   | 85.3   | 87.5   | 131.1  | 129.9  |
| 91.2   | 85°   | 61.8   | 47.7   | 43.6   | 45.0   | 42.8   | 43.9   | 50.3   | 99.8   | 92.3   | 54.0   |
| 28.3   | 87.5° | 16.0   | 16.4   | 10.8   | 11.5   | 11.9   | 14.1   | 16.0   | 60.7   | 29.0   | 19.0   |
| 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> |
| 1270.3      |
| 1209.6      |
| 1079.3      |
| 899.5       |
| 759.9       |
| 695.1       |
| 648.6       |
| 632.6       |
| 627.7       |
| 609.5       |
| 578.9       |
| 554.0       |
| 530.5       |
| 504.9       |
| 476.2       |
| 443.8       |
| 393.2       |
| 369.3       |
| 384.2       |
| 373.8       |
| 331.0       |
| 302.3       |
| 288.2       |
| 270.3       |
| 253.2       |
| 236.0       |
| 220.4       |
| 205.1       |
| 187.3       |
| 167.5       |
| 144.8       |
| 118.4       |
| 105.4       |
| 132.9       |
| 58.5        |
| 20.1        |
| 0.0         |

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