

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: P939879

Luminaire Tested: **GALN-SB2C-935-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939879  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB2C-935-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

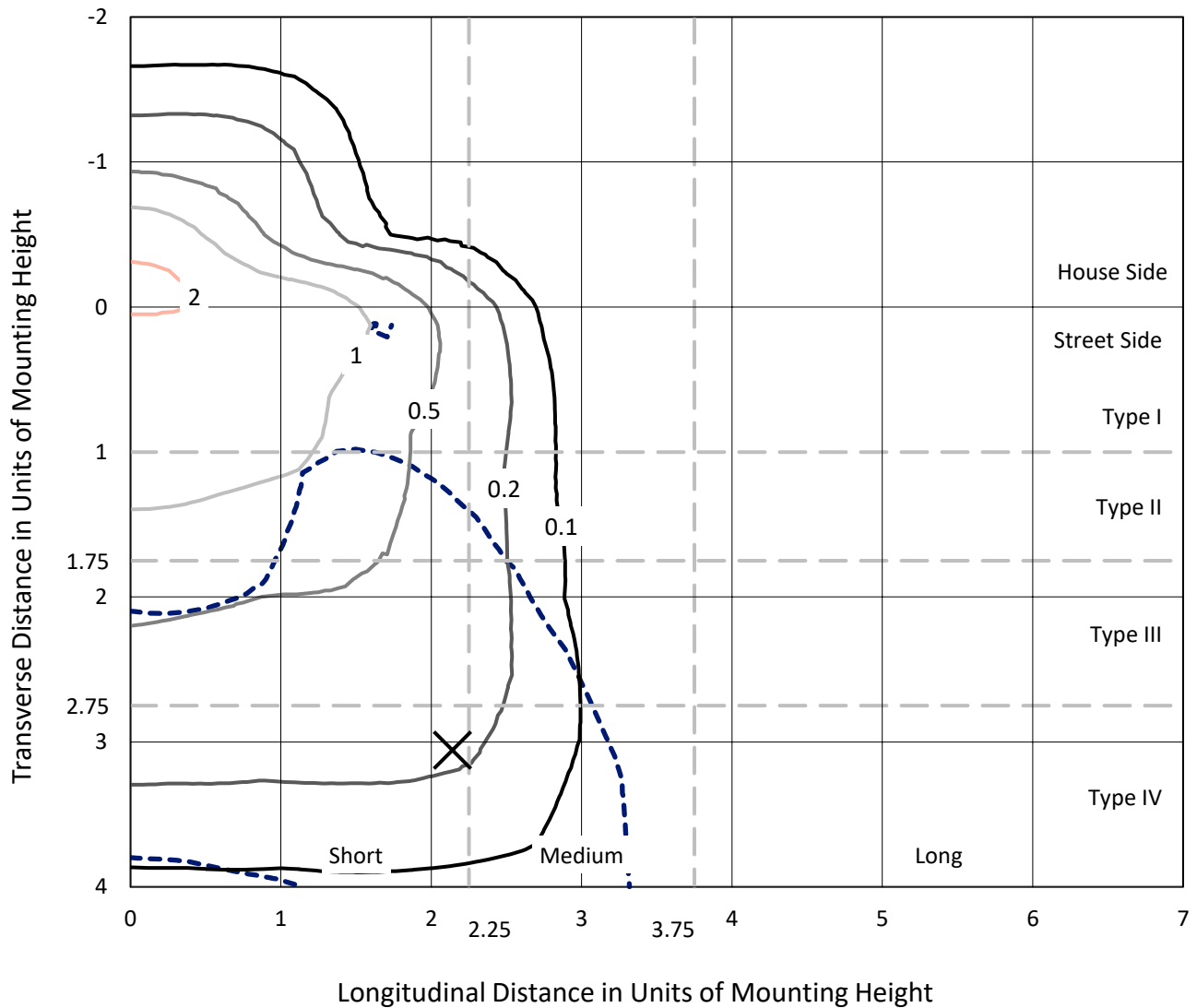
Lumens per Lamp: N/A  
Luminaire Lumens: 10298 lumens  
Efficiency: N/A  
Efficacy: 102.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

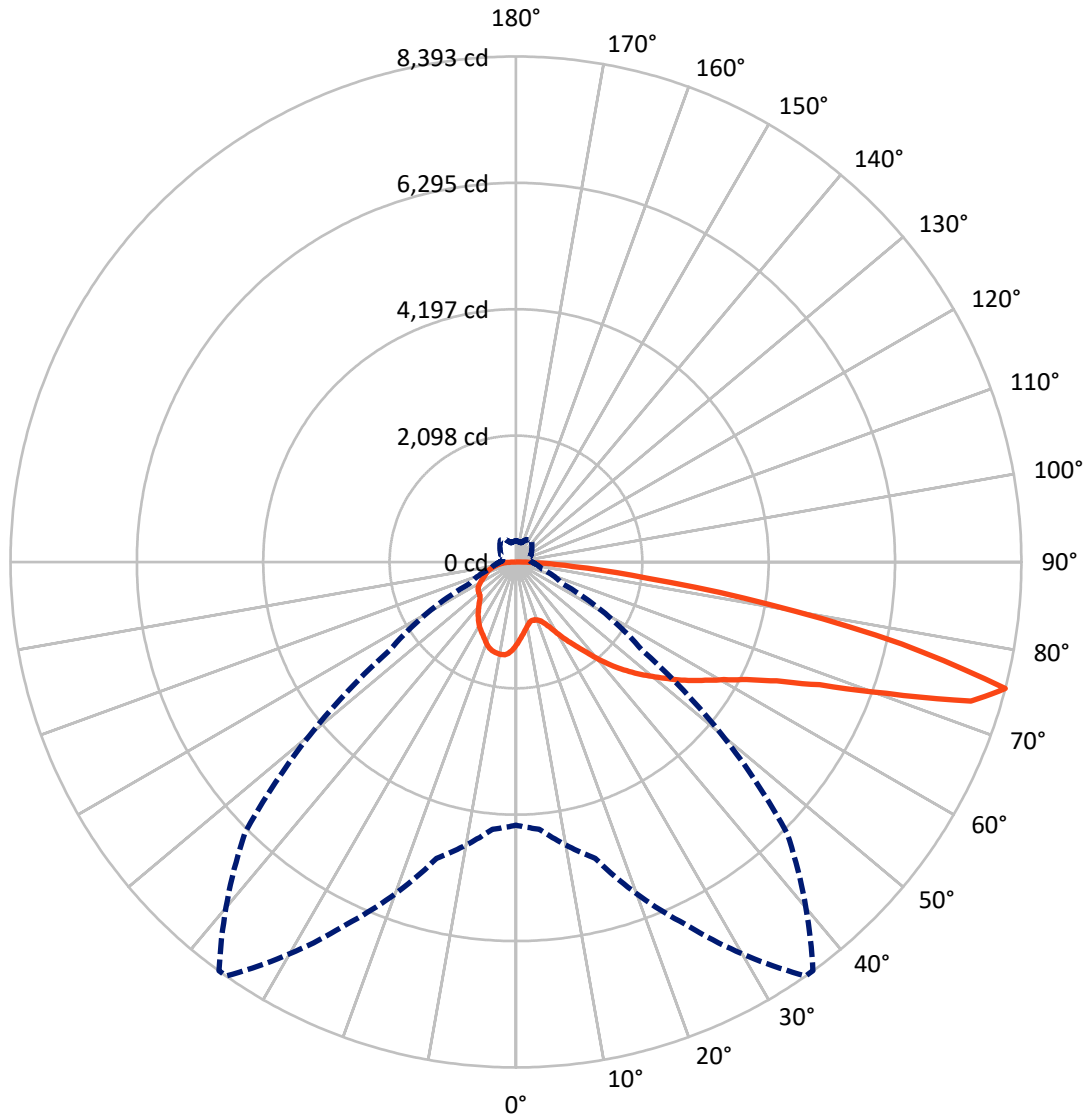
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2450.7   | 0.0    | 2450.7  |
|                    | % Fixture | 23.8     | 0.0    | 23.8    |
| <b>Street Side</b> | Lumens    | 7847.3   | 0.0    | 7847.3  |
|                    | % Fixture | 76.2     | 0.0    | 76.2    |
| <b>Total</b>       | Lumens    | 10298.0  | 0.0    | 10298.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 129.9   | 1.3       |
| 10°-20°   | 374.8   | 3.6       |
| 20°-30°   | 629.3   | 6.1       |
| 30°-40°   | 978.1   | 9.5       |
| 40°-50°   | 1451.7  | 14.1      |
| 50°-60°   | 2004.2  | 19.5      |
| 60°-70°   | 2431.5  | 23.6      |
| 70°-80°   | 2009.5  | 19.5      |
| 80°-90°   | 289.0   | 2.8       |
| 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°    | 10298.0 | 100.0     |
| 0°-180°   | 10298.0 | 100.0     |

**Coefficient of Utilization**



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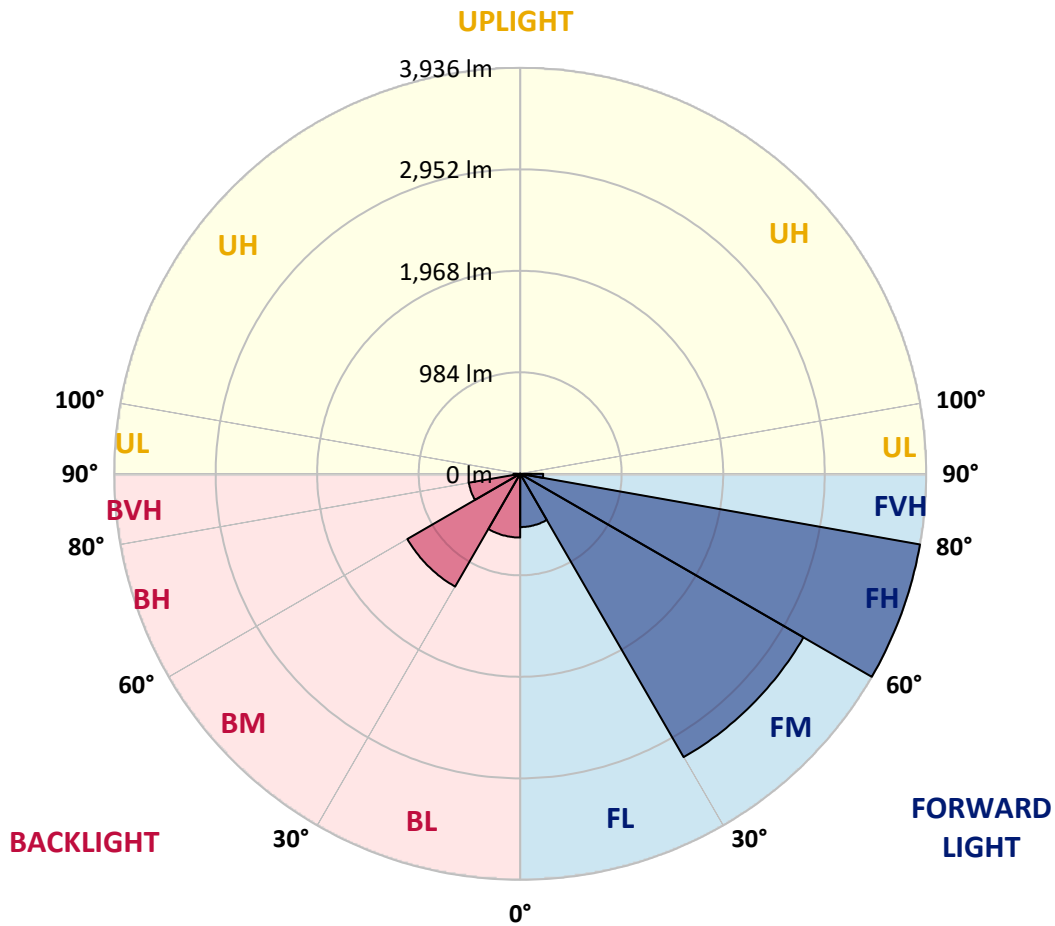
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 516.4  | 5.0       |                         |      |         |
| FM (30°-60°)   | 3171.2 | 30.8      |                         |      |         |
| FH (60°-80°)   | 3935.7 | 38.2      |                         |      | G2/5000 |
| FVH (80°-90°)  | 223.9  | 2.2       |                         |      | G2/225  |
| BL (0°-30°)    | 617.6  | 6.0       | B2/1000                 |      |         |
| BM (30°-60°)   | 1262.7 | 12.3      | B2/2500                 |      |         |
| BH (60°-80°)   | 505.3  | 4.9       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 65.1   | 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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 36°    | 45°    | 55°    | 65°    | 75°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1372.3 | 1372.3 | 1372.3 | 1372.3 | 1372.3 | 1372.3 | 1372.3 | 1372.3 | 1372.3 | 1372.3 |
| 2.5°  | 1265.4 | 1273.2 | 1276.5 | 1274.9 | 1283.2 | 1282.1 | 1293.8 | 1308.3 | 1328.3 | 1347.8 |
| 5°    | 1168.0 | 1176.3 | 1183.6 | 1190.2 | 1206.4 | 1211.4 | 1229.8 | 1257.6 | 1294.3 | 1331.6 |
| 7.5°  | 1077.2 | 1084.5 | 1095.6 | 1107.8 | 1135.1 | 1140.1 | 1170.8 | 1214.2 | 1265.4 | 1319.9 |
| 10°   | 1003.2 | 1010.4 | 1022.1 | 1036.0 | 1070.0 | 1076.1 | 1115.1 | 1173.0 | 1239.8 | 1308.8 |
| 12.5° | 971.5  | 973.7  | 980.4  | 994.3  | 1023.8 | 1027.7 | 1070.5 | 1136.8 | 1214.7 | 1300.5 |
| 15°   | 969.8  | 974.2  | 974.8  | 982.0  | 1006.5 | 1008.2 | 1047.7 | 1113.4 | 1199.1 | 1298.8 |
| 17.5° | 986.5  | 989.8  | 984.8  | 989.3  | 1009.9 | 1012.6 | 1043.8 | 1102.3 | 1194.1 | 1306.0 |
| 20°   | 1031.0 | 1033.8 | 1018.8 | 1012.6 | 1027.7 | 1029.9 | 1060.5 | 1109.5 | 1199.1 | 1321.1 |
| 22.5° | 1125.7 | 1127.3 | 1090.6 | 1065.5 | 1066.6 | 1067.8 | 1094.5 | 1139.0 | 1218.6 | 1348.3 |
| 25°   | 1273.2 | 1272.1 | 1213.6 | 1165.2 | 1137.3 | 1131.2 | 1149.0 | 1186.9 | 1251.5 | 1384.5 |
| 27.5° | 1445.8 | 1437.4 | 1379.0 | 1306.6 | 1245.9 | 1237.0 | 1233.1 | 1249.2 | 1298.2 | 1432.4 |
| 30°   | 1640.6 | 1632.8 | 1569.9 | 1475.3 | 1391.2 | 1376.7 | 1340.0 | 1331.6 | 1367.8 | 1497.5 |
| 32.5° | 1854.4 | 1849.4 | 1774.2 | 1659.5 | 1547.1 | 1530.4 | 1468.6 | 1446.3 | 1474.7 | 1596.1 |
| 35°   | 2033.6 | 2029.2 | 1966.8 | 1848.8 | 1711.3 | 1690.7 | 1627.8 | 1602.8 | 1617.2 | 1722.4 |
| 37.5° | 2195.6 | 2193.4 | 2140.0 | 2047.0 | 1905.0 | 1880.0 | 1809.3 | 1800.9 | 1798.2 | 1888.9 |
| 40°   | 2346.0 | 2340.4 | 2284.7 | 2235.7 | 2130.5 | 2107.7 | 2045.3 | 2038.1 | 2016.9 | 2093.8 |
| 42.5° | 2512.4 | 2497.9 | 2417.2 | 2394.4 | 2366.0 | 2347.1 | 2309.8 | 2310.9 | 2264.1 | 2324.8 |
| 45°   | 2648.2 | 2639.9 | 2556.9 | 2543.6 | 2574.2 | 2566.4 | 2598.7 | 2607.1 | 2516.3 | 2567.0 |
| 47.5° | 2794.1 | 2786.3 | 2716.2 | 2706.7 | 2789.6 | 2791.9 | 2906.0 | 2908.8 | 2762.4 | 2818.6 |
| 50°   | 2973.9 | 2962.8 | 2893.2 | 2904.9 | 2997.9 | 3006.2 | 3215.0 | 3196.0 | 2988.9 | 3074.1 |
| 52.5° | 3092.5 | 3099.2 | 3084.1 | 3103.1 | 3230.0 | 3237.8 | 3518.9 | 3470.5 | 3213.3 | 3326.3 |
| 55°   | 3179.9 | 3193.3 | 3240.0 | 3283.4 | 3475.0 | 3482.7 | 3805.6 | 3731.6 | 3399.2 | 3560.1 |
| 57.5° | 3292.4 | 3273.4 | 3360.8 | 3445.4 | 3707.7 | 3728.3 | 4084.5 | 3983.2 | 3564.0 | 3761.7 |
| 60°   | 3453.8 | 3440.4 | 3508.4 | 3633.6 | 3968.2 | 4001.0 | 4379.6 | 4209.8 | 3684.8 | 3921.4 |
| 62.5° | 3781.1 | 3747.7 | 3758.3 | 3869.1 | 4296.7 | 4340.1 | 4712.5 | 4407.4 | 3745.0 | 3983.8 |
| 65°   | 4270.5 | 4213.1 | 4159.7 | 4236.5 | 4759.3 | 4802.1 | 5088.3 | 4562.8 | 3722.7 | 3863.0 |
| 67.5° | 4886.8 | 4830.0 | 4764.3 | 4836.7 | 5440.7 | 5474.6 | 5552.0 | 4650.2 | 3547.3 | 3397.6 |
| 70°   | 5395.0 | 5373.9 | 5452.4 | 5750.2 | 6529.0 | 6530.2 | 6146.6 | 4577.8 | 3066.9 | 2408.9 |
| 72.5° | 5327.7 | 5314.9 | 5728.5 | 6649.3 | 7900.8 | 7871.3 | 6709.4 | 4030.0 | 2065.9 | 1086.7 |
| 75°   | 4370.7 | 4453.6 | 5094.4 | 6633.1 | 8393.4 | 8389.5 | 6364.8 | 2562.0 | 854.5  | 450.4  |
| 77.5° | 2343.7 | 2475.1 | 3307.4 | 4897.3 | 6552.4 | 6651.0 | 4474.8 | 896.3  | 366.9  | 288.4  |
| 80°   | 764.4  | 879.0  | 1318.3 | 2493.5 | 4257.7 | 4239.3 | 1917.8 | 351.8  | 251.1  | 204.3  |
| 82.5° | 324.6  | 337.9  | 589.0  | 1177.4 | 2185.1 | 2151.1 | 610.7  | 202.1  | 176.5  | 139.7  |
| 85°   | 126.9  | 142.0  | 260.0  | 544.5  | 946.4  | 925.8  | 220.5  | 100.2  | 113.0  | 91.3   |
| 87.5° | 41.8   | 50.7   | 93.0   | 186.5  | 294.5  | 283.9  | 54.0   | 34.5   | 49.0   | 41.8   |
| 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°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1372.3 | 0°    | 1372.3 | 1372.3 | 1372.3 | 1372.3 | 1372.3 | 1372.3 | 1372.3 | 1372.3 | 1372.3 | 1372.3 |
| 1376.2 | 2.5°  | 1384.0 | 1392.9 | 1403.5 | 1419.0 | 1432.4 | 1443.5 | 1455.2 | 1462.5 | 1465.2 | 1473.6 |
| 1378.4 | 5°    | 1394.0 | 1413.5 | 1439.6 | 1465.2 | 1490.3 | 1505.3 | 1518.7 | 1525.4 | 1531.5 | 1535.9 |
| 1384.5 | 7.5°  | 1410.7 | 1435.7 | 1476.9 | 1510.3 | 1531.5 | 1543.7 | 1552.7 | 1550.4 | 1552.7 | 1553.8 |
| 1391.2 | 10°   | 1425.2 | 1460.2 | 1509.2 | 1541.0 | 1557.1 | 1557.7 | 1555.4 | 1547.6 | 1543.7 | 1544.3 |
| 1401.2 | 12.5° | 1442.4 | 1481.4 | 1534.3 | 1561.0 | 1565.5 | 1553.2 | 1543.7 | 1530.4 | 1525.4 | 1523.1 |
| 1416.3 | 15°   | 1465.8 | 1510.3 | 1561.6 | 1571.6 | 1560.4 | 1544.9 | 1528.7 | 1507.0 | 1495.9 | 1487.0 |
| 1441.9 | 17.5° | 1494.2 | 1543.2 | 1582.7 | 1575.5 | 1551.5 | 1525.9 | 1499.8 | 1466.9 | 1444.1 | 1434.6 |
| 1476.9 | 20°   | 1533.7 | 1577.7 | 1598.9 | 1567.1 | 1530.9 | 1492.0 | 1447.4 | 1407.4 | 1386.2 | 1376.7 |
| 1521.5 | 22.5° | 1581.6 | 1623.9 | 1614.4 | 1552.7 | 1501.4 | 1439.1 | 1383.4 | 1353.9 | 1343.3 | 1336.6 |
| 1578.8 | 25°   | 1638.9 | 1675.1 | 1625.6 | 1531.5 | 1453.0 | 1368.9 | 1326.1 | 1316.6 | 1311.6 | 1306.6 |
| 1649.0 | 27.5° | 1713.5 | 1733.0 | 1633.9 | 1500.3 | 1377.3 | 1294.3 | 1278.8 | 1280.4 | 1278.8 | 1270.4 |
| 1746.4 | 30°   | 1812.1 | 1808.2 | 1641.7 | 1449.7 | 1290.4 | 1227.0 | 1228.1 | 1235.3 | 1236.4 | 1230.9 |
| 1882.2 | 32.5° | 1941.8 | 1902.3 | 1645.6 | 1384.0 | 1207.5 | 1168.0 | 1169.1 | 1176.9 | 1182.4 | 1173.0 |
| 2059.8 | 35°   | 2098.8 | 2011.9 | 1639.5 | 1301.6 | 1143.5 | 1111.7 | 1103.4 | 1105.6 | 1107.3 | 1098.4 |
| 2275.3 | 37.5° | 2281.9 | 2135.0 | 1612.2 | 1210.3 | 1090.6 | 1056.6 | 1038.8 | 1023.8 | 1014.9 | 1006.5 |
| 2519.1 | 40°   | 2482.9 | 2269.1 | 1562.1 | 1121.2 | 1031.6 | 998.2  | 971.5  | 943.1  | 913.0  | 901.9  |
| 2777.4 | 42.5° | 2693.3 | 2407.2 | 1501.4 | 1036.0 | 963.7  | 936.4  | 908.0  | 866.8  | 821.7  | 798.9  |
| 3045.7 | 45°   | 2911.6 | 2548.6 | 1441.9 | 952.0  | 894.1  | 882.4  | 849.5  | 800.0  | 751.0  | 722.0  |
| 3314.6 | 47.5° | 3125.3 | 2682.2 | 1354.5 | 867.3  | 828.9  | 841.7  | 816.1  | 770.5  | 715.9  | 670.3  |
| 3581.3 | 50°   | 3329.7 | 2807.5 | 1211.4 | 781.6  | 776.0  | 829.5  | 805.0  | 739.3  | 677.0  | 618.5  |
| 3842.9 | 52.5° | 3532.3 | 2908.8 | 1028.2 | 703.7  | 747.7  | 826.2  | 790.5  | 718.1  | 641.9  | 580.6  |
| 4089.0 | 55°   | 3704.3 | 2961.1 | 851.8  | 636.9  | 706.5  | 797.8  | 773.3  | 693.1  | 592.3  | 527.2  |
| 4257.7 | 57.5° | 3802.3 | 2918.8 | 704.8  | 571.2  | 649.7  | 751.0  | 743.8  | 639.7  | 533.3  | 483.2  |
| 4290.5 | 60°   | 3760.0 | 2747.3 | 584.5  | 513.8  | 595.7  | 700.3  | 692.5  | 586.8  | 488.2  | 440.9  |
| 4114.6 | 62.5° | 3526.7 | 2420.6 | 489.3  | 463.7  | 546.7  | 648.6  | 641.3  | 546.1  | 453.7  | 408.1  |
| 3647.5 | 65°   | 3056.9 | 1969.1 | 415.3  | 422.0  | 497.1  | 586.2  | 596.8  | 512.2  | 426.4  | 381.9  |
| 2821.9 | 67.5° | 2331.5 | 1426.3 | 357.4  | 385.8  | 448.7  | 525.0  | 555.6  | 487.7  | 403.6  | 361.3  |
| 1632.8 | 70°   | 1328.9 | 810.0  | 308.4  | 350.7  | 405.8  | 468.2  | 523.9  | 468.2  | 379.1  | 344.0  |
| 611.8  | 72.5° | 503.8  | 371.9  | 266.7  | 315.7  | 364.6  | 420.3  | 488.8  | 437.6  | 350.7  | 324.6  |
| 316.2  | 75°   | 268.9  | 226.6  | 224.4  | 274.5  | 317.3  | 373.5  | 444.8  | 407.5  | 329.6  | 342.9  |
| 218.8  | 77.5° | 183.2  | 160.3  | 187.6  | 234.9  | 265.5  | 321.8  | 398.0  | 361.9  | 285.6  | 284.5  |
| 151.4  | 80°   | 126.9  | 113.6  | 152.5  | 189.3  | 205.4  | 270.6  | 347.4  | 310.6  | 232.7  | 217.1  |
| 93.5   | 82.5° | 76.3   | 74.0   | 114.1  | 141.4  | 145.3  | 208.8  | 287.8  | 260.5  | 190.4  | 165.9  |
| 55.7   | 85°   | 41.8   | 44.0   | 72.9   | 82.9   | 84.6   | 145.9  | 225.5  | 201.5  | 146.4  | 123.0  |
| 20.0   | 87.5° | 11.7   | 15.0   | 26.7   | 32.8   | 40.6   | 75.7   | 134.2  | 119.7  | 73.5   | 51.2   |
| 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> |
| 1372.3      |
| 1473.0      |
| 1537.1      |
| 1555.4      |
| 1545.4      |
| 1522.0      |
| 1489.7      |
| 1435.2      |
| 1375.6      |
| 1337.8      |
| 1306.6      |
| 1272.1      |
| 1233.7      |
| 1177.4      |
| 1104.5      |
| 1012.1      |
| 906.9       |
| 801.7       |
| 719.8       |
| 665.3       |
| 613.5       |
| 574.0       |
| 521.6       |
| 476.5       |
| 434.2       |
| 400.8       |
| 374.7       |
| 354.6       |
| 339.6       |
| 320.1       |
| 354.1       |
| 262.2       |
| 207.7       |
| 167.0       |
| 124.1       |
| 51.2        |
| 0.0         |

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