

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: P940402

Luminaire Tested: **GALN-SB3B-950-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940402  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB3B-950-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

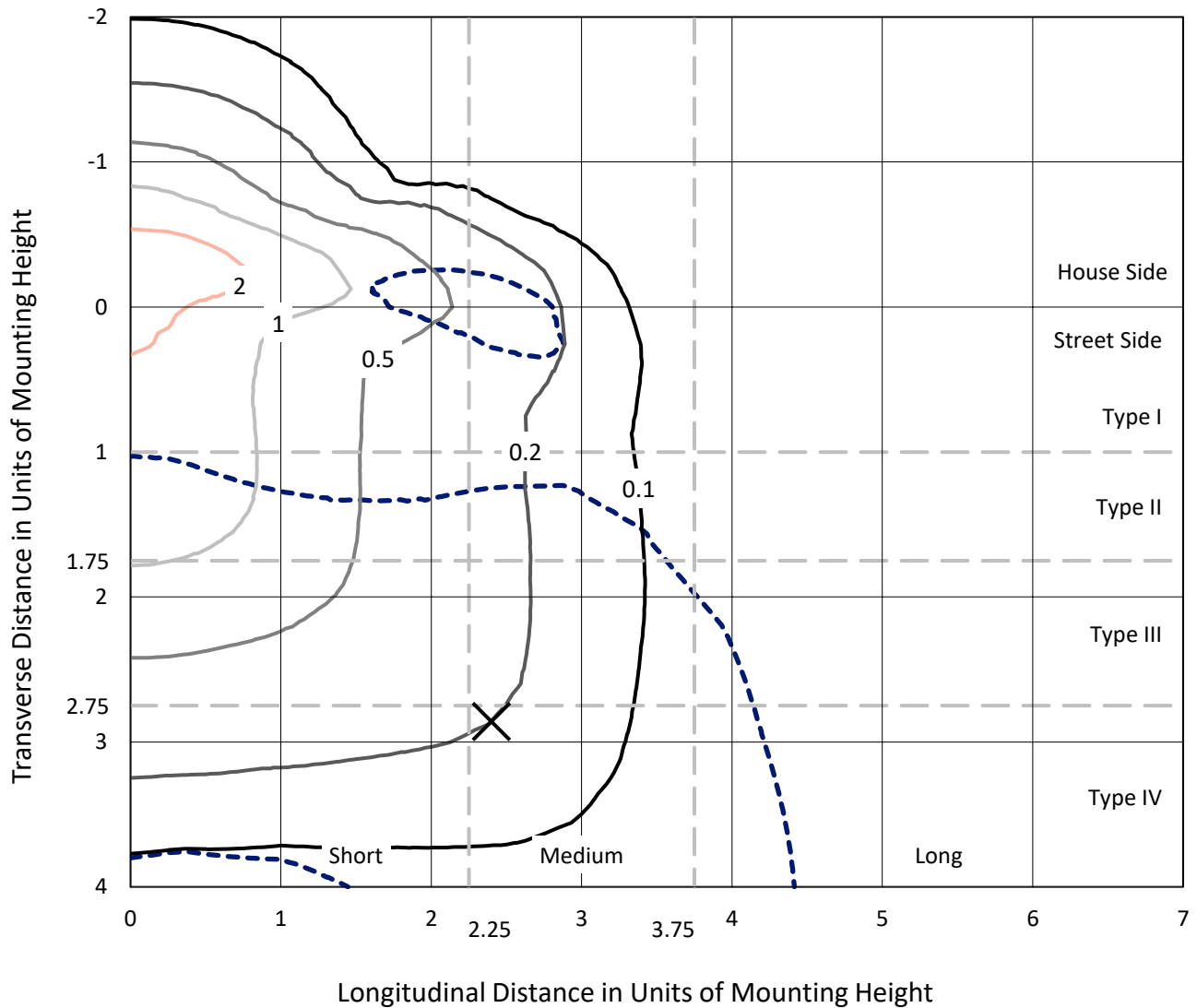
Lumens per Lamp: N/A  
Luminaire Lumens: 11651 lumens  
Efficiency: N/A  
Efficacy: 106.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 109.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

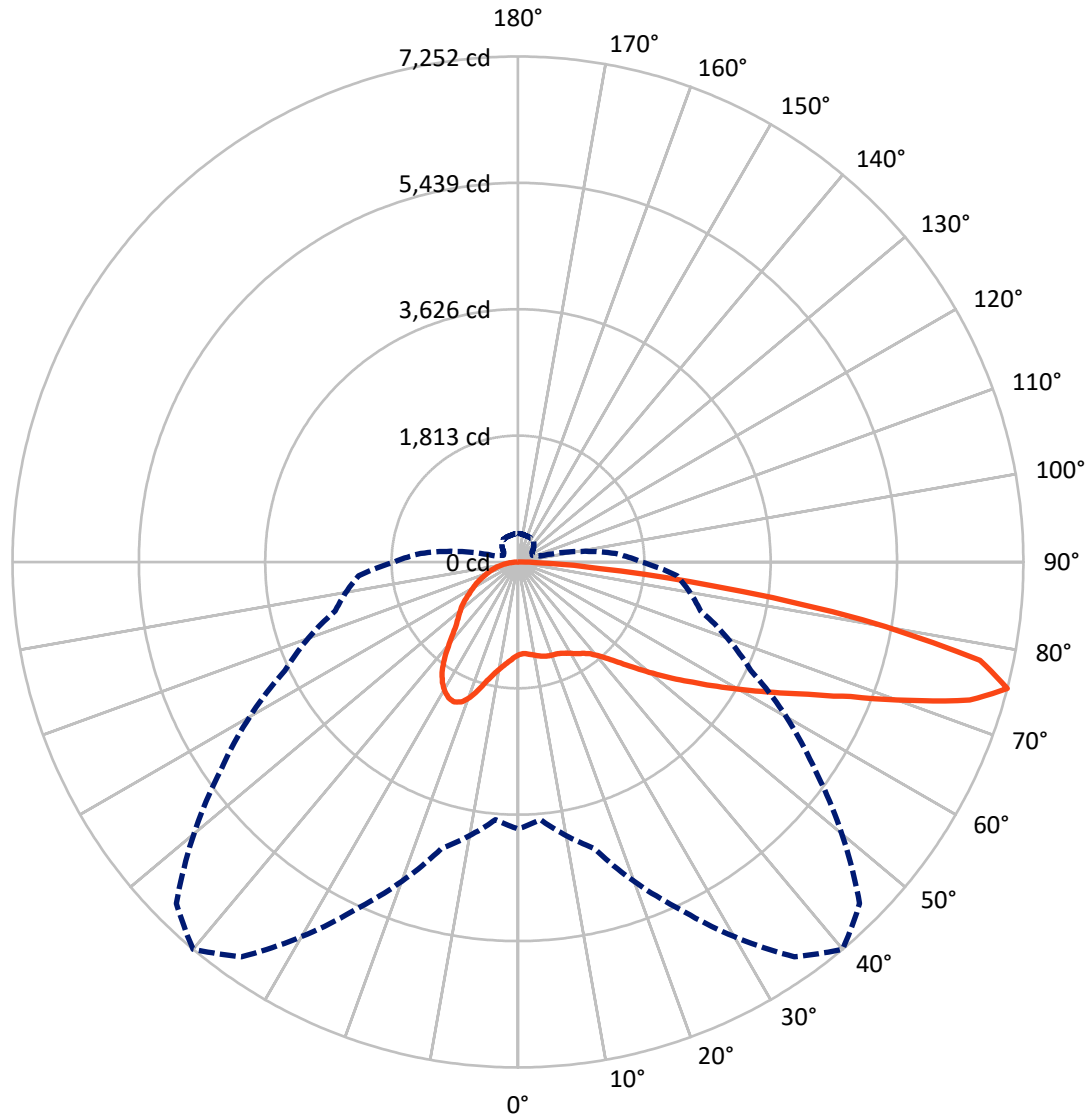
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3609.9   | 0.0    | 3609.9  |
|                    | % Fixture | 31.0     | 0.0    | 31.0    |
| <b>Street Side</b> | Lumens    | 8041.1   | 0.0    | 8041.1  |
|                    | % Fixture | 69.0     | 0.0    | 69.0    |
| <b>Total</b>       | Lumens    | 11651.0  | 0.0    | 11651.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 133.0   | 1.1       |
| 10°-20°   | 446.5   | 3.8       |
| 20°-30°   | 815.3   | 7.0       |
| 30°-40°   | 1156.3  | 9.9       |
| 40°-50°   | 1561.4  | 13.4      |
| 50°-60°   | 2100.4  | 18.0      |
| 60°-70°   | 2665.9  | 22.9      |
| 70°-80°   | 2419.5  | 20.8      |
| 80°-90°   | 352.7   | 3.0       |
| 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°    | 11651.0 | 100.0     |
| 0°-180°   | 11651.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P940402

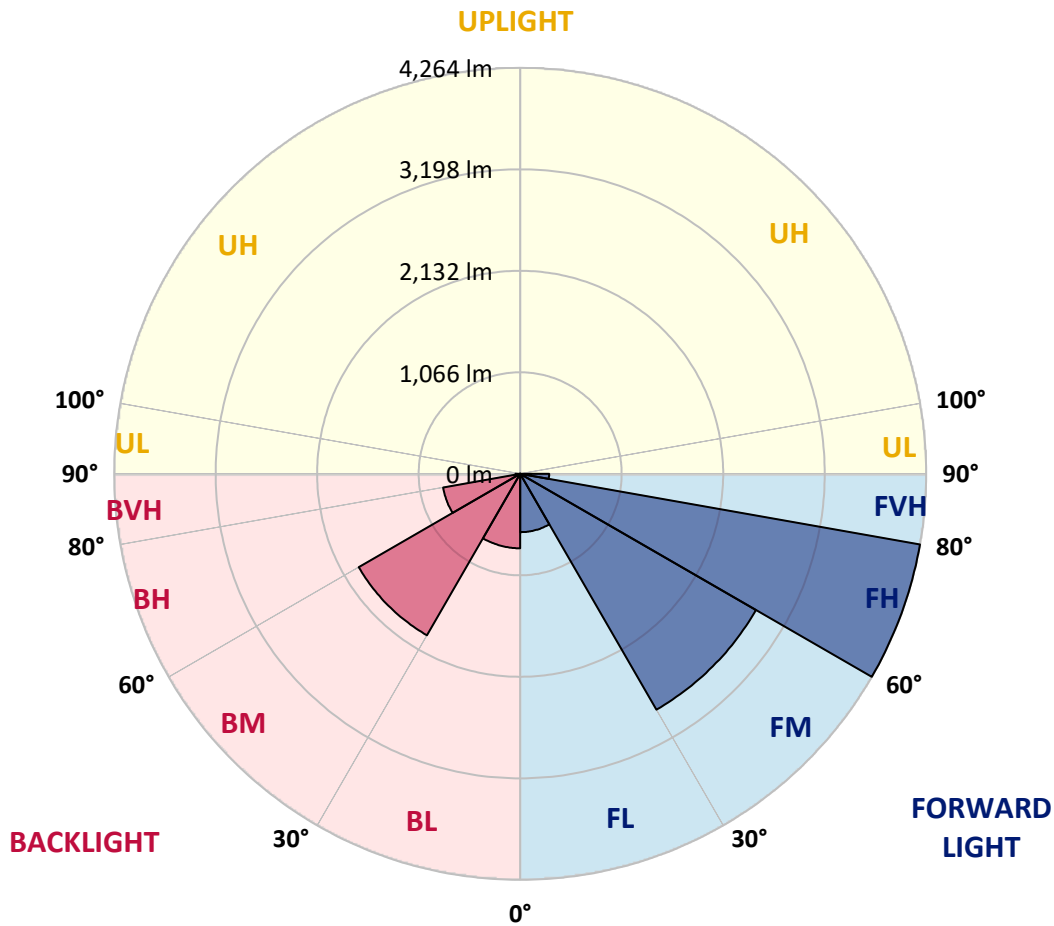
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 612.9  | 5.3       |                         |      |         |
| FM (30°-60°)   | 2860.1 | 24.5      |                         |      |         |
| FH (60°-80°)   | 4264.1 | 36.6      |                         |      | G2/5000 |
| FVH (80°-90°)  | 304.1  | 2.6       |                         |      | G3/500  |
| BL (0°-30°)    | 781.9  | 6.7       | B2/1000                 |      |         |
| BM (30°-60°)   | 1958.0 | 16.8      | B2/2500                 |      |         |
| BH (60°-80°)   | 821.4  | 7.0       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 48.6   | 0.4       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type IV Medium



REPORT NUMBER: P940402

CATALOG NUMBER: GALN-SB3B-950-U-SL4

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 40°    | 45°    | 55°    | 65°    | 75°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1332.3 | 1332.3 | 1332.3 | 1332.3 | 1332.3 | 1332.3 | 1332.3 | 1332.3 | 1332.3 | 1332.3 |
| 2.5°  | 1311.9 | 1319.3 | 1317.5 | 1315.0 | 1315.0 | 1315.6 | 1315.0 | 1319.3 | 1323.7 | 1328.0 |
| 5°    | 1325.5 | 1332.9 | 1329.2 | 1326.1 | 1323.7 | 1323.0 | 1321.2 | 1320.6 | 1323.0 | 1328.6 |
| 7.5°  | 1352.1 | 1359.5 | 1353.9 | 1348.4 | 1343.4 | 1341.0 | 1338.5 | 1334.8 | 1332.9 | 1336.0 |
| 10°   | 1381.7 | 1389.2 | 1382.4 | 1372.5 | 1364.4 | 1361.4 | 1358.9 | 1355.2 | 1352.7 | 1354.6 |
| 12.5° | 1411.4 | 1418.8 | 1409.6 | 1396.0 | 1385.5 | 1383.6 | 1380.5 | 1379.3 | 1378.7 | 1378.0 |
| 15°   | 1439.2 | 1445.4 | 1433.7 | 1417.6 | 1406.5 | 1403.4 | 1400.3 | 1402.1 | 1405.2 | 1408.9 |
| 17.5° | 1460.8 | 1467.0 | 1449.7 | 1428.7 | 1418.2 | 1417.0 | 1415.1 | 1421.3 | 1429.9 | 1439.2 |
| 20°   | 1480.6 | 1486.8 | 1464.5 | 1436.1 | 1423.8 | 1423.8 | 1424.4 | 1437.4 | 1449.7 | 1463.3 |
| 22.5° | 1508.4 | 1513.4 | 1486.2 | 1447.2 | 1429.3 | 1430.6 | 1435.5 | 1448.5 | 1463.9 | 1482.5 |
| 25°   | 1549.8 | 1553.5 | 1520.2 | 1468.3 | 1447.9 | 1451.6 | 1455.9 | 1462.1 | 1476.9 | 1498.5 |
| 27.5° | 1616.6 | 1619.7 | 1575.8 | 1505.3 | 1474.4 | 1480.6 | 1486.8 | 1482.5 | 1489.3 | 1507.8 |
| 30°   | 1710.5 | 1712.3 | 1656.7 | 1563.4 | 1519.5 | 1522.6 | 1523.9 | 1506.0 | 1493.0 | 1507.8 |
| 32.5° | 1821.7 | 1821.1 | 1755.0 | 1633.9 | 1570.8 | 1567.7 | 1557.2 | 1522.0 | 1491.7 | 1504.7 |
| 35°   | 1994.1 | 1987.3 | 1902.1 | 1732.7 | 1628.9 | 1609.8 | 1585.1 | 1539.9 | 1497.9 | 1501.6 |
| 37.5° | 2279.6 | 2258.6 | 2140.6 | 1894.6 | 1715.4 | 1666.6 | 1630.2 | 1569.0 | 1511.5 | 1500.4 |
| 40°   | 2601.6 | 2575.0 | 2445.2 | 2116.5 | 1845.2 | 1766.7 | 1708.0 | 1610.4 | 1533.8 | 1506.0 |
| 42.5° | 2983.5 | 2945.8 | 2806.1 | 2377.9 | 2009.6 | 1895.9 | 1807.5 | 1662.9 | 1566.5 | 1523.9 |
| 45°   | 3452.5 | 3402.5 | 3204.7 | 2672.6 | 2216.6 | 2065.2 | 1947.2 | 1742.6 | 1616.6 | 1558.5 |
| 47.5° | 3926.5 | 3938.8 | 3657.7 | 3010.1 | 2465.0 | 2274.1 | 2122.1 | 1862.5 | 1689.5 | 1614.1 |
| 50°   | 4430.1 | 4438.8 | 4108.2 | 3383.9 | 2746.8 | 2510.1 | 2318.6 | 1996.6 | 1790.8 | 1693.2 |
| 52.5° | 4823.1 | 4824.4 | 4517.2 | 3775.1 | 3040.3 | 2769.7 | 2530.5 | 2149.9 | 1908.2 | 1798.2 |
| 55°   | 5069.1 | 5066.0 | 4804.0 | 4145.2 | 3377.7 | 3042.2 | 2765.3 | 2324.1 | 2051.6 | 1921.8 |
| 57.5° | 5247.7 | 5238.4 | 5001.7 | 4463.5 | 3737.4 | 3364.1 | 3031.1 | 2521.9 | 2220.9 | 2068.9 |
| 60°   | 5315.6 | 5310.1 | 5135.8 | 4738.5 | 4115.6 | 3720.1 | 3337.6 | 2743.1 | 2413.1 | 2242.6 |
| 62.5° | 5341.6 | 5352.1 | 5267.4 | 5004.8 | 4520.3 | 4114.3 | 3674.4 | 3007.6 | 2629.4 | 2439.1 |
| 65°   | 5433.0 | 5452.2 | 5434.9 | 5353.3 | 4977.6 | 4575.9 | 4121.1 | 3322.1 | 2865.4 | 2649.8 |
| 67.5° | 5614.1 | 5633.3 | 5640.7 | 5770.4 | 5536.2 | 5151.3 | 4678.5 | 3713.9 | 3141.7 | 2868.5 |
| 70°   | 5609.8 | 5604.2 | 5735.2 | 6102.3 | 6235.8 | 5947.8 | 5430.0 | 4195.9 | 3471.0 | 3050.2 |
| 72.5° | 5106.1 | 5061.7 | 5371.3 | 6098.6 | 6817.9 | 6779.6 | 6347.6 | 4817.6 | 3755.3 | 3072.5 |
| 75°   | 3830.7 | 3712.0 | 4258.9 | 5496.1 | 6914.9 | 7251.7 | 6931.0 | 5203.2 | 3687.9 | 2714.7 |
| 77.5° | 1638.2 | 1518.9 | 2163.5 | 4068.6 | 6188.8 | 6778.9 | 6395.8 | 4539.5 | 2943.9 | 1795.2 |
| 80°   | 428.9  | 428.2  | 653.8  | 1844.6 | 4208.9 | 5006.0 | 4391.8 | 2931.6 | 1682.1 | 641.4  |
| 82.5° | 177.4  | 173.0  | 240.4  | 717.4  | 2056.5 | 2809.2 | 2292.6 | 1307.6 | 607.4  | 173.6  |
| 85°   | 66.1   | 65.5   | 116.8  | 247.8  | 725.5  | 1158.7 | 838.6  | 334.3  | 151.4  | 84.7   |
| 87.5° | 18.5   | 17.9   | 25.3   | 85.9   | 176.7  | 268.2  | 143.4  | 55.0   | 42.6   | 33.4   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

REPORT NUMBER: P940402  
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**CANDELA DISTRIBUTION (continued):**

| 85°    |       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1332.3 | 0°    | 1332.3 | 1332.3 | 1332.3 | 1332.3 | 1332.3 | 1332.3 | 1332.3 | 1332.3 | 1332.3 | 1332.3 |
| 1334.8 | 2.5°  | 1336.6 | 1339.7 | 1345.3 | 1349.6 | 1355.2 | 1361.4 | 1370.0 | 1375.6 | 1381.1 | 1384.8 |
| 1337.9 | 5°    | 1342.2 | 1349.0 | 1363.2 | 1377.4 | 1394.1 | 1409.6 | 1427.5 | 1440.4 | 1451.0 | 1454.0 |
| 1349.0 | 7.5°  | 1354.6 | 1365.7 | 1389.8 | 1413.9 | 1440.4 | 1465.8 | 1491.7 | 1514.0 | 1531.9 | 1538.7 |
| 1368.8 | 10°   | 1376.2 | 1391.0 | 1425.0 | 1459.0 | 1494.2 | 1533.1 | 1566.5 | 1598.6 | 1624.0 | 1634.5 |
| 1392.2 | 12.5° | 1403.4 | 1421.9 | 1466.4 | 1513.4 | 1562.2 | 1615.9 | 1659.2 | 1698.8 | 1730.3 | 1744.5 |
| 1425.0 | 15°   | 1438.6 | 1462.7 | 1519.5 | 1582.6 | 1654.3 | 1729.0 | 1784.0 | 1827.9 | 1863.1 | 1880.4 |
| 1459.0 | 17.5° | 1476.9 | 1509.0 | 1580.7 | 1675.9 | 1778.5 | 1876.7 | 1941.0 | 1973.1 | 2009.6 | 2026.3 |
| 1490.5 | 20°   | 1514.0 | 1553.5 | 1656.1 | 1794.5 | 1931.1 | 2035.5 | 2087.4 | 2096.1 | 2098.6 | 2100.4 |
| 1520.2 | 22.5° | 1552.3 | 1605.4 | 1750.7 | 1944.1 | 2090.5 | 2162.8 | 2170.3 | 2133.2 | 2081.3 | 2057.2 |
| 1549.2 | 25°   | 1594.3 | 1664.8 | 1874.3 | 2109.1 | 2227.7 | 2236.4 | 2179.5 | 2089.3 | 1991.0 | 1945.9 |
| 1572.7 | 27.5° | 1635.1 | 1733.4 | 2022.6 | 2266.7 | 2326.6 | 2250.6 | 2128.2 | 2000.3 | 1881.7 | 1834.1 |
| 1589.4 | 30°   | 1675.9 | 1811.8 | 2186.3 | 2404.5 | 2371.7 | 2215.4 | 2047.3 | 1904.5 | 1785.3 | 1735.2 |
| 1604.2 | 32.5° | 1717.3 | 1903.3 | 2374.8 | 2503.9 | 2363.7 | 2140.6 | 1946.6 | 1797.0 | 1692.0 | 1639.4 |
| 1617.2 | 35°   | 1764.3 | 2015.8 | 2553.4 | 2558.3 | 2309.9 | 2030.6 | 1813.7 | 1668.5 | 1577.0 | 1535.0 |
| 1632.6 | 37.5° | 1825.4 | 2158.5 | 2711.0 | 2571.9 | 2216.0 | 1869.3 | 1648.7 | 1516.5 | 1441.1 | 1421.9 |
| 1655.5 | 40°   | 1901.4 | 2330.3 | 2831.5 | 2550.3 | 2076.9 | 1673.4 | 1468.3 | 1362.6 | 1319.9 | 1324.3 |
| 1686.4 | 42.5° | 2000.3 | 2522.5 | 2916.1 | 2494.7 | 1883.5 | 1471.3 | 1310.1 | 1263.1 | 1283.5 | 1300.8 |
| 1732.7 | 45°   | 2128.8 | 2722.1 | 2968.6 | 2400.1 | 1664.8 | 1300.2 | 1216.8 | 1227.9 | 1243.3 | 1245.2 |
| 1807.5 | 47.5° | 2293.2 | 2924.2 | 3003.3 | 2257.4 | 1441.7 | 1179.7 | 1157.4 | 1159.9 | 1156.8 | 1143.8 |
| 1919.4 | 50°   | 2498.4 | 3120.7 | 3034.2 | 2068.3 | 1252.0 | 1104.3 | 1074.6 | 1066.0 | 1023.3 | 981.3  |
| 2068.3 | 52.5° | 2732.0 | 3301.1 | 3047.1 | 1833.5 | 1104.3 | 1041.3 | 993.1  | 938.7  | 859.0  | 846.0  |
| 2255.5 | 55°   | 2991.5 | 3468.0 | 3013.8 | 1544.9 | 980.1  | 960.3  | 887.4  | 821.9  | 813.2  | 802.1  |
| 2502.1 | 57.5° | 3301.7 | 3647.8 | 2945.8 | 1222.9 | 852.8  | 865.8  | 794.7  | 802.1  | 786.7  | 769.4  |
| 2819.1 | 60°   | 3641.0 | 3833.8 | 2826.5 | 929.4  | 721.2  | 747.7  | 770.6  | 770.0  | 765.6  | 751.4  |
| 3153.4 | 62.5° | 3946.2 | 3956.1 | 2591.7 | 711.9  | 605.6  | 656.3  | 718.7  | 718.1  | 714.4  | 706.3  |
| 3502.6 | 65°   | 4127.9 | 3937.6 | 2199.9 | 560.5  | 510.4  | 580.9  | 648.2  | 653.2  | 653.8  | 653.2  |
| 3765.2 | 67.5° | 4095.8 | 3720.7 | 1662.3 | 446.2  | 431.9  | 504.2  | 578.4  | 585.2  | 590.1  | 591.4  |
| 3798.6 | 70°   | 3732.4 | 3244.3 | 1083.9 | 355.9  | 362.1  | 436.9  | 512.3  | 519.1  | 523.4  | 528.4  |
| 3296.2 | 72.5° | 2909.3 | 2385.3 | 620.4  | 288.0  | 300.9  | 378.8  | 446.8  | 454.8  | 457.3  | 466.6  |
| 2293.8 | 75°   | 1772.9 | 1402.8 | 334.9  | 226.8  | 247.2  | 323.8  | 381.9  | 391.2  | 395.5  | 406.6  |
| 1126.5 | 77.5° | 842.9  | 607.4  | 190.9  | 176.7  | 199.0  | 264.5  | 322.6  | 333.1  | 321.3  | 327.5  |
| 310.8  | 80°   | 284.9  | 225.6  | 120.5  | 134.7  | 152.0  | 206.4  | 258.3  | 268.8  | 244.1  | 242.9  |
| 103.2  | 82.5° | 99.5   | 91.5   | 76.6   | 89.6   | 98.3   | 147.7  | 195.3  | 208.9  | 181.7  | 181.1  |
| 46.3   | 85°   | 38.9   | 37.1   | 42.6   | 48.8   | 58.7   | 90.8   | 128.5  | 135.3  | 111.8  | 90.2   |
| 13.6   | 87.5° | 8.0    | 8.7    | 10.5   | 11.1   | 17.9   | 31.5   | 46.3   | 56.9   | 45.1   | 38.3   |
| 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> |
|-------------|
| 1332.3      |
| 1382.4      |
| 1455.3      |
| 1539.3      |
| 1635.1      |
| 1744.5      |
| 1879.2      |
| 2025.7      |
| 2105.4      |
| 2064.0      |
| 1952.7      |
| 1839.6      |
| 1740.8      |
| 1646.2      |
| 1544.3      |
| 1435.5      |
| 1339.1      |
| 1316.9      |
| 1257.5      |
| 1153.7      |
| 986.9       |
| 850.3       |
| 804.0       |
| 766.3       |
| 746.5       |
| 703.2       |
| 653.2       |
| 592.6       |
| 530.8       |
| 470.3       |
| 407.8       |
| 322.6       |
| 240.4       |
| 172.4       |
| 89.0        |
| 35.2        |
| 0.0         |

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