

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: P947936

Luminaire Tested: **GALN-SB3A-850-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947936  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB3A-850-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

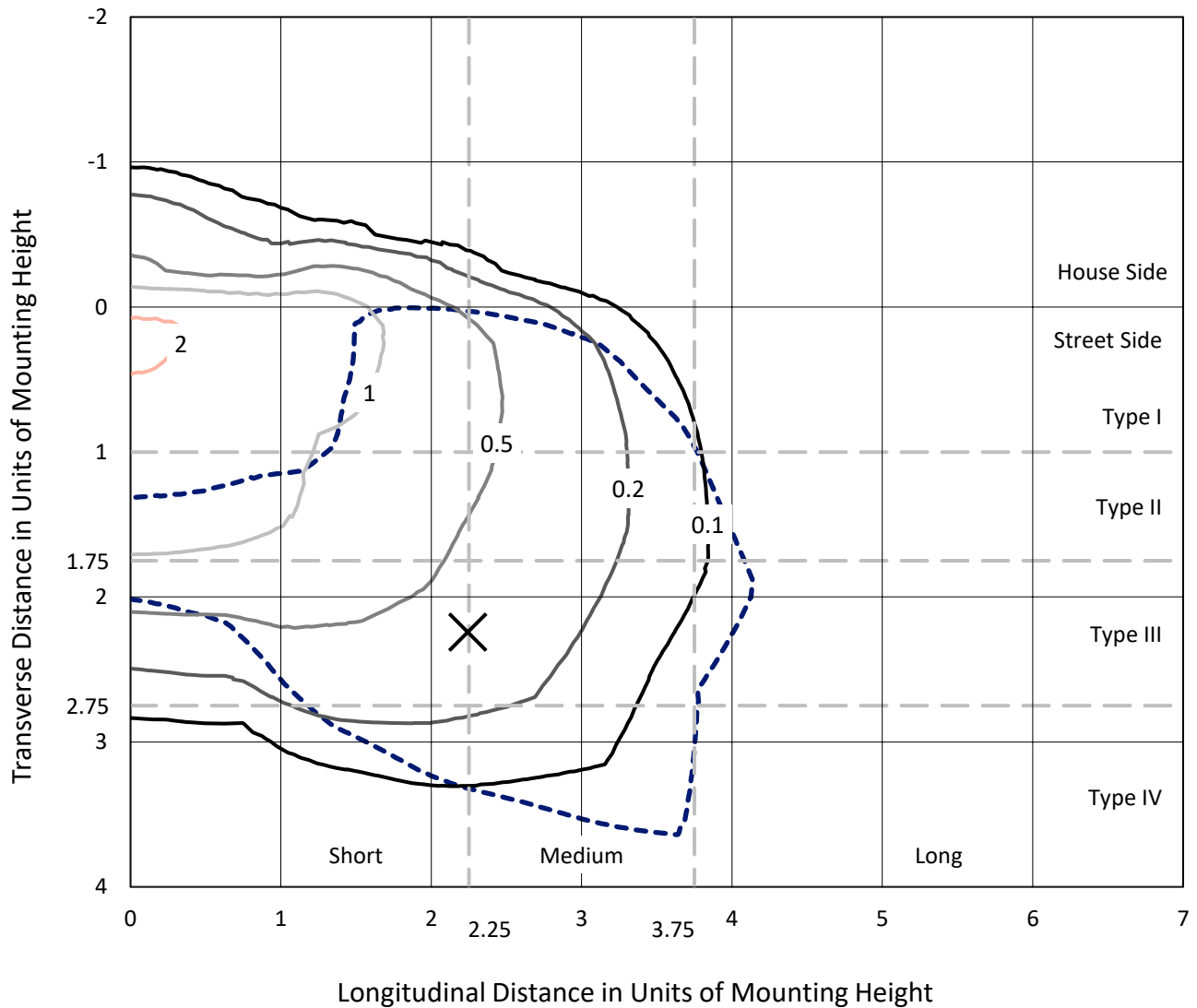
Lumens per Lamp: N/A  
Luminaire Lumens: 9917 lumens  
Efficiency: N/A  
Efficacy: 117.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

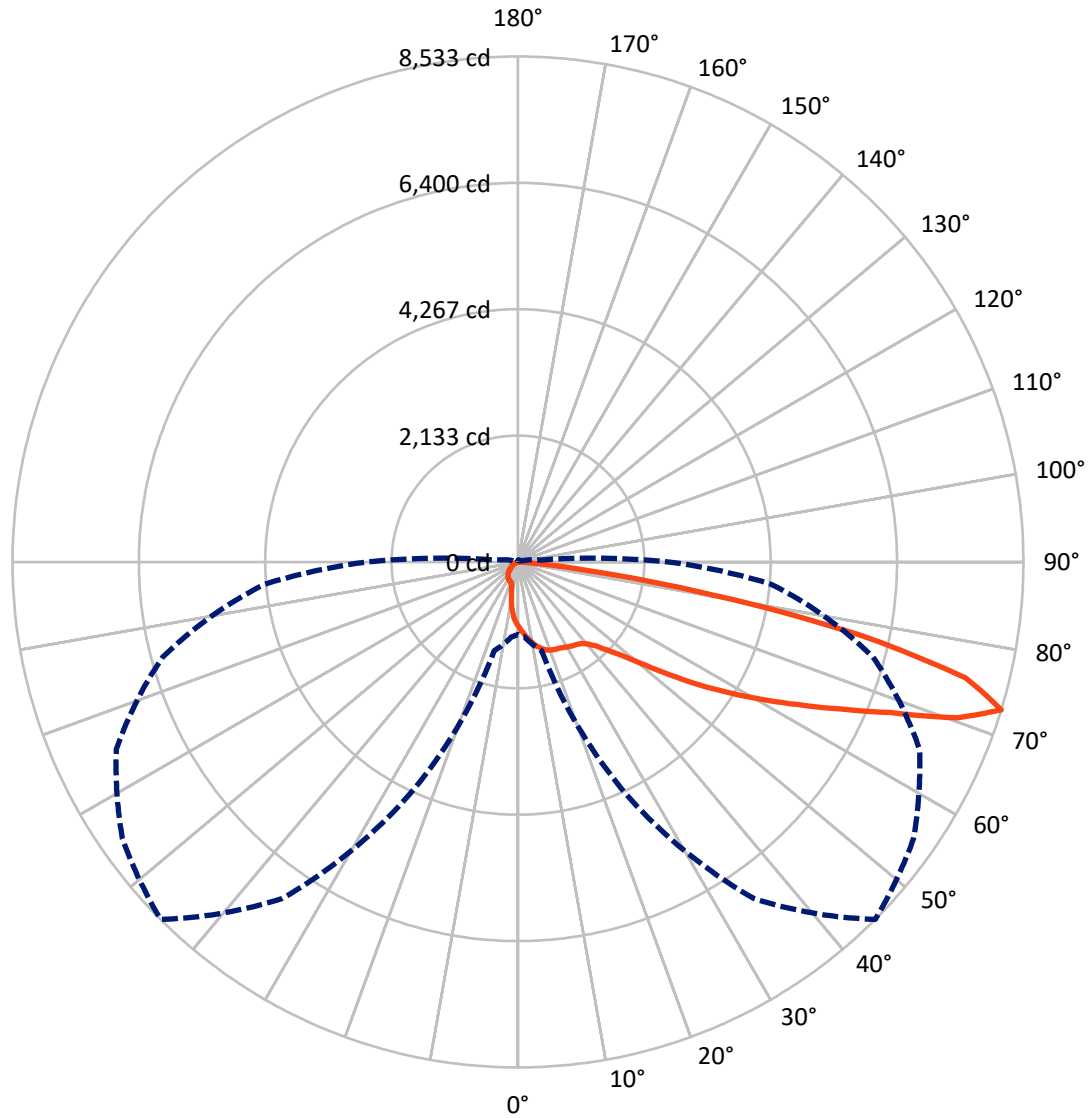
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1042.0   | 0.0    | 1042.0 |
|                    | % Fixture | 10.5     | 0.0    | 10.5   |
| <b>Street Side</b> | Lumens    | 8875.0   | 0.0    | 8875.0 |
|                    | % Fixture | 89.5     | 0.0    | 89.5   |
| <b>Total</b>       | Lumens    | 9917.0   | 0.0    | 9917.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 102.4  | 1.0       |
| 10°-20°   | 299.2  | 3.0       |
| 20°-30°   | 491.3  | 5.0       |
| 30°-40°   | 696.7  | 7.0       |
| 40°-50°   | 1151.6 | 11.6      |
| 50°-60°   | 2068.8 | 20.9      |
| 60°-70°   | 2872.6 | 29.0      |
| 70°-80°   | 2083.7 | 21.0      |
| 80°-90°   | 150.6  | 1.5       |
| 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°    | 9917.0 | 100.0     |
| 0°-180°   | 9917.0 | 100.0     |

**Coefficient of Utilization**



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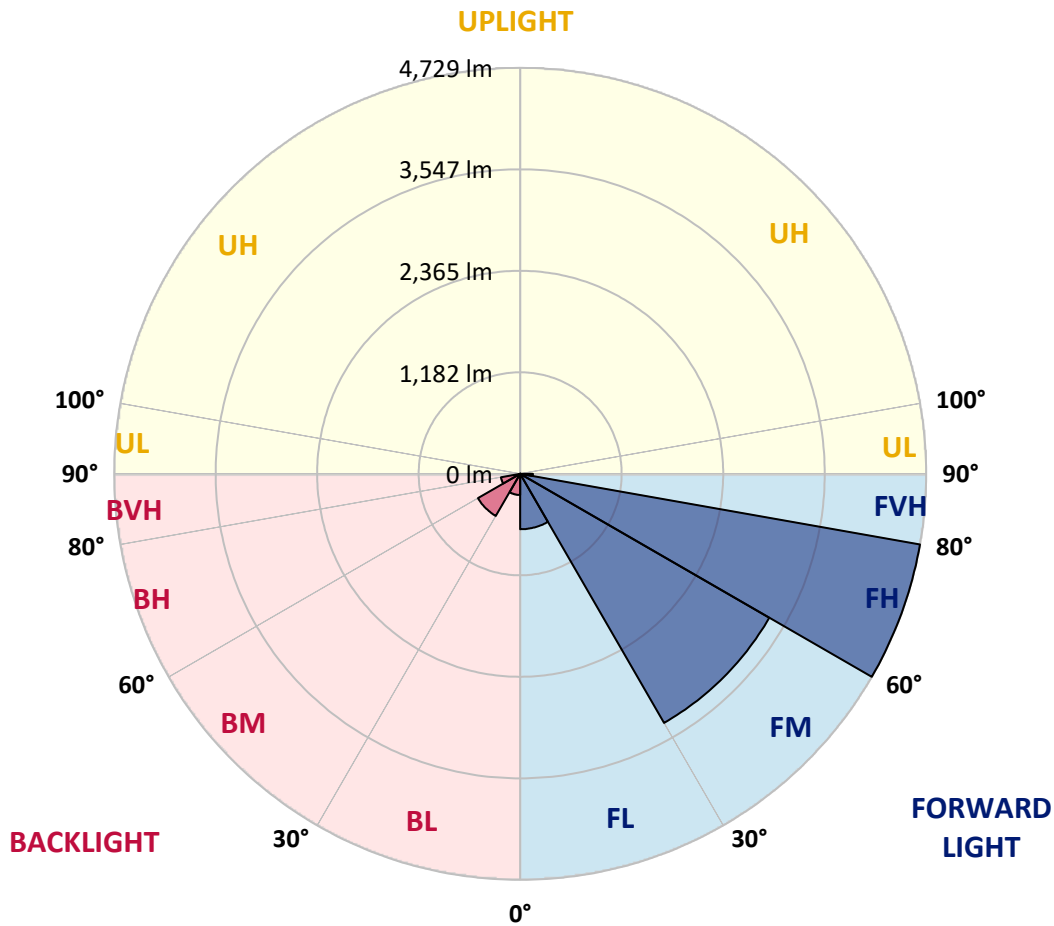
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 646.0  | 6.5       |                         |      |         |
| FM (30°-60°)   | 3350.5 | 33.8      |                         |      |         |
| FH (60°-80°)   | 4729.1 | 47.7      |                         |      | G2/5000 |
| FVH (80°-90°)  | 149.4  | 1.5       |                         |      | G2/225  |
| BL (0°-30°)    | 246.8  | 2.5       | B1/500                  |      |         |
| BM (30°-60°)   | 566.7  | 5.7       | B1/1000                 |      |         |
| BH (60°-80°)   | 227.2  | 2.3       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 1.3    | 0.0       |                         |      | G0/10   |
| 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 Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 46°    | 55°    | 65°    | 75°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1086.4 | 1086.4 | 1086.4 | 1086.4 | 1086.4 | 1086.4 | 1086.4 | 1086.4 | 1086.4 | 1086.4 |
| 2.5°  | 1186.6 | 1188.6 | 1187.3 | 1179.2 | 1165.6 | 1158.2 | 1154.1 | 1140.6 | 1131.8 | 1116.2 |
| 5°    | 1295.6 | 1303.7 | 1299.0 | 1282.7 | 1257.0 | 1238.7 | 1233.3 | 1205.6 | 1180.5 | 1151.4 |
| 7.5°  | 1411.3 | 1415.4 | 1406.6 | 1385.6 | 1351.1 | 1320.0 | 1315.2 | 1276.6 | 1236.7 | 1192.0 |
| 10°   | 1511.5 | 1516.3 | 1502.7 | 1472.3 | 1433.0 | 1394.4 | 1387.7 | 1345.0 | 1297.6 | 1242.8 |
| 12.5° | 1595.5 | 1600.2 | 1582.6 | 1546.0 | 1502.7 | 1462.8 | 1456.0 | 1411.3 | 1359.2 | 1298.3 |
| 15°   | 1659.1 | 1667.9 | 1644.2 | 1604.9 | 1558.2 | 1518.3 | 1514.9 | 1470.9 | 1420.1 | 1352.5 |
| 17.5° | 1696.3 | 1705.1 | 1682.8 | 1635.4 | 1595.5 | 1561.6 | 1557.6 | 1521.0 | 1473.6 | 1408.6 |
| 20°   | 1702.4 | 1710.5 | 1686.8 | 1645.5 | 1612.4 | 1585.3 | 1583.3 | 1556.9 | 1522.4 | 1460.1 |
| 22.5° | 1684.1 | 1694.3 | 1672.6 | 1639.5 | 1616.4 | 1602.2 | 1599.5 | 1584.6 | 1565.0 | 1512.2 |
| 25°   | 1665.2 | 1673.3 | 1657.1 | 1628.0 | 1615.8 | 1614.4 | 1616.4 | 1613.7 | 1609.7 | 1565.0 |
| 27.5° | 1663.8 | 1672.6 | 1654.3 | 1626.6 | 1619.8 | 1634.0 | 1636.1 | 1648.9 | 1652.3 | 1613.1 |
| 30°   | 1675.3 | 1681.4 | 1663.8 | 1634.7 | 1631.3 | 1663.8 | 1664.5 | 1687.5 | 1692.9 | 1653.7 |
| 32.5° | 1700.4 | 1707.1 | 1689.5 | 1646.9 | 1642.2 | 1687.5 | 1689.5 | 1720.0 | 1728.8 | 1697.0 |
| 35°   | 1759.3 | 1767.4 | 1747.1 | 1680.7 | 1663.8 | 1709.9 | 1715.9 | 1751.8 | 1769.4 | 1743.0 |
| 37.5° | 1906.2 | 1882.5 | 1854.7 | 1749.1 | 1713.2 | 1745.1 | 1755.2 | 1797.2 | 1828.3 | 1797.9 |
| 40°   | 2271.0 | 2196.5 | 2109.9 | 1865.5 | 1799.9 | 1820.2 | 1828.3 | 1870.3 | 1912.9 | 1883.1 |
| 42.5° | 2818.6 | 2730.6 | 2591.2 | 2133.6 | 1930.5 | 1940.7 | 1946.8 | 1983.3 | 2043.6 | 2019.9 |
| 45°   | 3306.7 | 3274.9 | 3132.7 | 2591.2 | 2174.9 | 2124.8 | 2132.2 | 2151.2 | 2239.9 | 2231.1 |
| 47.5° | 3681.7 | 3663.4 | 3553.7 | 3116.5 | 2587.8 | 2350.2 | 2371.2 | 2380.0 | 2507.9 | 2539.1 |
| 50°   | 3970.0 | 3963.3 | 3865.1 | 3583.5 | 3127.3 | 2682.6 | 2690.0 | 2671.1 | 2862.6 | 2939.8 |
| 52.5° | 4242.1 | 4265.2 | 4192.7 | 4017.4 | 3703.3 | 3117.8 | 3116.5 | 3027.1 | 3285.7 | 3402.1 |
| 55°   | 4487.9 | 4496.0 | 4503.4 | 4460.1 | 4282.8 | 3613.3 | 3600.4 | 3454.2 | 3776.4 | 3896.9 |
| 57.5° | 4718.7 | 4722.1 | 4788.4 | 4877.1 | 4885.9 | 4145.4 | 4121.7 | 3946.3 | 4312.5 | 4398.5 |
| 60°   | 4873.7 | 4889.3 | 5029.4 | 5275.8 | 5383.4 | 4694.3 | 4681.5 | 4502.8 | 4858.1 | 4898.1 |
| 62.5° | 4650.3 | 4745.1 | 5098.4 | 5587.2 | 5853.2 | 5302.9 | 5296.8 | 5128.9 | 5432.1 | 5399.7 |
| 65°   | 3764.3 | 3924.7 | 4546.1 | 5797.7 | 6314.1 | 5982.5 | 5991.3 | 5812.6 | 6021.7 | 5916.1 |
| 67.5° | 2633.2 | 2802.4 | 3537.5 | 5814.6 | 6829.3 | 6780.5 | 6831.3 | 6551.1 | 6647.9 | 6410.9 |
| 70°   | 1820.9 | 1908.2 | 2386.8 | 5450.4 | 7230.7 | 7879.8 | 7878.5 | 7458.1 | 7270.6 | 6636.4 |
| 72.5° | 1224.5 | 1269.9 | 1550.1 | 4324.1 | 6935.5 | 8533.0 | 8493.8 | 8151.3 | 7480.4 | 6206.5 |
| 75°   | 516.5  | 549.6  | 717.5  | 2430.1 | 5487.0 | 7806.7 | 7700.4 | 7203.6 | 6646.5 | 4887.2 |
| 77.5° | 163.8  | 178.0  | 282.9  | 869.8  | 3022.4 | 5868.1 | 5755.7 | 4498.7 | 4454.7 | 2451.7 |
| 80°   | 77.8   | 90.7   | 159.1  | 349.3  | 1189.3 | 3191.6 | 3176.0 | 2040.9 | 1916.3 | 662.0  |
| 82.5° | 33.8   | 39.9   | 88.0   | 186.8  | 532.0  | 1138.5 | 1161.6 | 694.5  | 574.7  | 251.1  |
| 85°   | 10.8   | 14.2   | 40.6   | 86.0   | 224.7  | 282.9  | 279.6  | 165.2  | 231.5  | 136.7  |
| 87.5° | 0.0    | 0.0    | 13.5   | 19.6   | 23.0   | 16.2   | 18.3   | 14.2   | 64.3   | 37.9   |
| 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°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1086.4 | 0°    | 1086.4 | 1086.4 | 1086.4 | 1086.4 | 1086.4 | 1086.4 | 1086.4 | 1086.4 | 1086.4 | 1086.4 |
| 1100.0 | 2.5°  | 1091.8 | 1081.0 | 1062.1 | 1044.5 | 1028.9 | 1013.3 | 1003.8 | 990.3  | 989.0  | 989.0  |
| 1117.6 | 5°    | 1099.3 | 1081.7 | 1047.8 | 1012.0 | 970.7  | 931.4  | 892.2  | 854.3  | 842.1  | 833.3  |
| 1146.0 | 7.5°  | 1121.0 | 1093.2 | 1039.7 | 971.4  | 892.8  | 806.9  | 746.6  | 681.6  | 656.6  | 643.1  |
| 1183.9 | 10°   | 1152.1 | 1114.2 | 1033.0 | 913.1  | 785.9  | 668.8  | 582.8  | 512.4  | 485.3  | 473.8  |
| 1225.2 | 12.5° | 1186.6 | 1139.9 | 1020.8 | 840.7  | 668.8  | 528.7  | 444.7  | 412.2  | 408.2  | 408.2  |
| 1274.6 | 15°   | 1227.9 | 1171.0 | 999.8  | 755.4  | 546.3  | 418.3  | 388.5  | 389.9  | 394.0  | 396.7  |
| 1322.7 | 17.5° | 1270.5 | 1204.2 | 966.6  | 660.0  | 438.0  | 376.4  | 377.0  | 379.1  | 382.4  | 385.2  |
| 1374.8 | 20°   | 1316.6 | 1237.4 | 922.6  | 558.4  | 375.7  | 364.2  | 366.2  | 368.2  | 370.9  | 372.3  |
| 1423.5 | 22.5° | 1366.0 | 1268.5 | 870.5  | 458.9  | 354.7  | 354.0  | 354.7  | 356.7  | 360.1  | 360.1  |
| 1480.4 | 25°   | 1418.8 | 1303.0 | 810.9  | 386.5  | 343.9  | 343.9  | 345.2  | 346.6  | 349.3  | 349.3  |
| 1535.2 | 27.5° | 1472.9 | 1334.9 | 748.0  | 348.6  | 334.4  | 333.7  | 333.7  | 335.7  | 337.1  | 337.8  |
| 1589.4 | 30°   | 1532.5 | 1372.1 | 685.0  | 340.5  | 326.9  | 323.6  | 321.5  | 322.9  | 324.2  | 324.9  |
| 1646.2 | 32.5° | 1593.4 | 1408.0 | 628.8  | 343.9  | 319.5  | 313.4  | 306.6  | 305.3  | 305.3  | 308.0  |
| 1705.1 | 35°   | 1661.1 | 1447.2 | 585.5  | 355.4  | 315.4  | 298.5  | 287.7  | 281.6  | 282.3  | 286.3  |
| 1775.5 | 37.5° | 1742.3 | 1494.6 | 553.7  | 365.5  | 312.7  | 281.6  | 264.0  | 256.5  | 251.8  | 256.5  |
| 1872.3 | 40°   | 1848.6 | 1564.3 | 530.7  | 373.7  | 309.3  | 262.0  | 238.3  | 226.1  | 217.3  | 220.0  |
| 2022.6 | 42.5° | 2005.0 | 1674.0 | 521.9  | 374.3  | 301.9  | 238.9  | 211.9  | 195.6  | 182.8  | 183.4  |
| 2248.7 | 45°   | 2224.3 | 1847.3 | 567.2  | 365.5  | 285.7  | 213.9  | 184.1  | 162.5  | 154.3  | 152.3  |
| 2586.4 | 47.5° | 2524.8 | 2099.8 | 672.2  | 347.3  | 262.0  | 189.5  | 157.0  | 138.8  | 132.7  | 129.3  |
| 3029.8 | 50°   | 2927.6 | 2424.0 | 788.6  | 326.9  | 238.3  | 166.5  | 134.7  | 123.2  | 119.1  | 115.8  |
| 3555.8 | 52.5° | 3394.7 | 2753.0 | 884.0  | 306.6  | 214.6  | 146.2  | 120.5  | 113.7  | 110.3  | 107.6  |
| 4063.4 | 55°   | 3823.1 | 2979.7 | 878.6  | 285.0  | 191.6  | 130.0  | 110.3  | 106.3  | 102.2  | 99.5   |
| 4500.7 | 57.5° | 4089.8 | 3011.5 | 724.3  | 261.3  | 165.2  | 117.1  | 100.9  | 98.2   | 93.4   | 90.0   |
| 4879.1 | 60°   | 4212.4 | 2830.1 | 507.7  | 230.1  | 138.8  | 104.9  | 90.7   | 89.4   | 83.3   | 78.5   |
| 5237.2 | 62.5° | 4234.7 | 2493.0 | 338.5  | 191.6  | 115.8  | 93.4   | 80.6   | 78.5   | 70.4   | 62.3   |
| 5528.3 | 65°   | 4144.0 | 2011.1 | 234.2  | 149.6  | 98.8   | 81.2   | 69.0   | 65.0   | 56.2   | 48.1   |
| 5597.3 | 67.5° | 3857.0 | 1412.0 | 163.1  | 107.6  | 83.9   | 64.3   | 54.8   | 53.5   | 46.7   | 39.9   |
| 5245.3 | 70°   | 3331.0 | 804.8  | 109.0  | 80.6   | 66.3   | 44.0   | 43.3   | 44.7   | 37.9   | 32.5   |
| 4285.5 | 72.5° | 2554.0 | 368.2  | 67.7   | 58.9   | 45.4   | 29.8   | 34.5   | 35.2   | 29.1   | 24.4   |
| 2673.8 | 75°   | 1503.4 | 157.7  | 42.6   | 37.9   | 23.0   | 19.6   | 25.0   | 25.7   | 19.6   | 15.6   |
| 977.4  | 77.5° | 511.7  | 59.6   | 27.1   | 22.3   | 11.5   | 10.8   | 16.2   | 16.2   | 10.8   | 6.1    |
| 196.3  | 80°   | 116.4  | 22.3   | 13.5   | 8.8    | 5.4    | 4.7    | 5.4    | 4.7    | 2.7    | 0.7    |
| 60.2   | 82.5° | 33.2   | 8.8    | 5.4    | 3.4    | 2.0    | 2.0    | 0.7    | 0.0    | 0.0    | 0.0    |
| 21.0   | 85°   | 9.5    | 4.1    | 1.4    | 1.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 7.4    | 87.5° | 4.1    | 0.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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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|        |
|--------|
| 180°   |
| 1086.4 |
| 992.3  |
| 837.3  |
| 645.1  |
| 473.8  |
| 408.2  |
| 396.7  |
| 385.2  |
| 373.0  |
| 361.5  |
| 350.0  |
| 338.5  |
| 326.3  |
| 310.0  |
| 288.4  |
| 255.2  |
| 218.6  |
| 180.7  |
| 149.6  |
| 127.3  |
| 115.1  |
| 107.0  |
| 98.2   |
| 89.4   |
| 77.2   |
| 58.2   |
| 45.4   |
| 37.9   |
| 29.8   |
| 21.7   |
| 13.5   |
| 4.7    |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |

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