

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: P946581

Luminaire Tested: **GALN-SB2A-940-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946581
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-SB2A-940-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6353 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

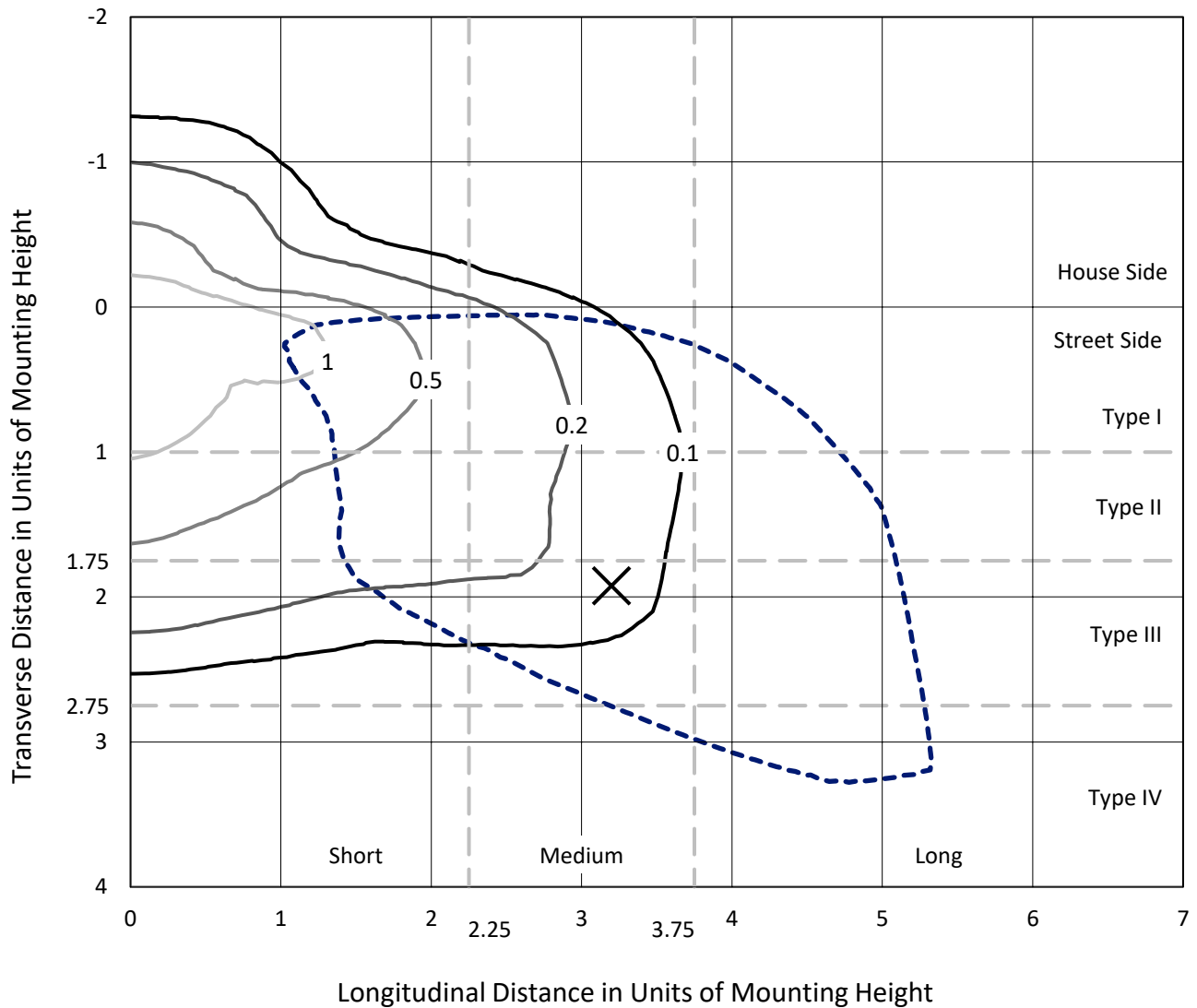
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

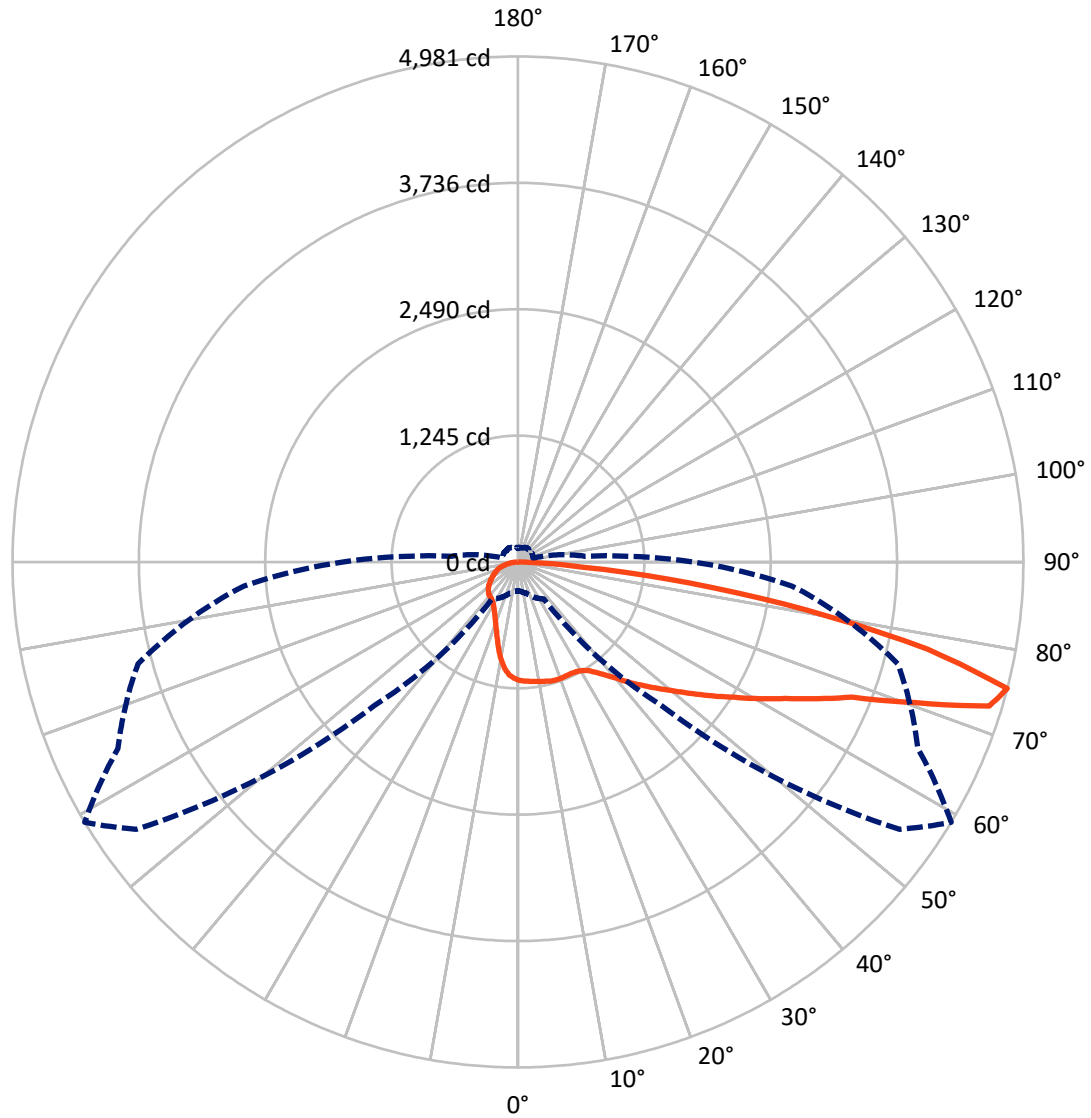
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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 |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1191.6 | 0.0 | 1191.6 |
| | % Fixture | 18.8 | 0.0 | 18.8 |
| Street Side | Lumens | 5161.4 | 0.0 | 5161.4 |
| | % Fixture | 81.2 | 0.0 | 81.2 |
| Total | Lumens | 6353.0 | 0.0 | 6353.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 104.6 | 1.6 |
| 10°-20° | 267.3 | 4.2 |
| 20°-30° | 405.9 | 6.4 |
| 30°-40° | 603.4 | 9.5 |
| 40°-50° | 897.4 | 14.1 |
| 50°-60° | 1218.1 | 19.2 |
| 60°-70° | 1487.1 | 23.4 |
| 70°-80° | 1167.1 | 18.4 |
| 80°-90° | 202.2 | 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° | 6353.0 | 100.0 |
| 0°-180° | 6353.0 | 100.0 |

Coefficient of Utilization



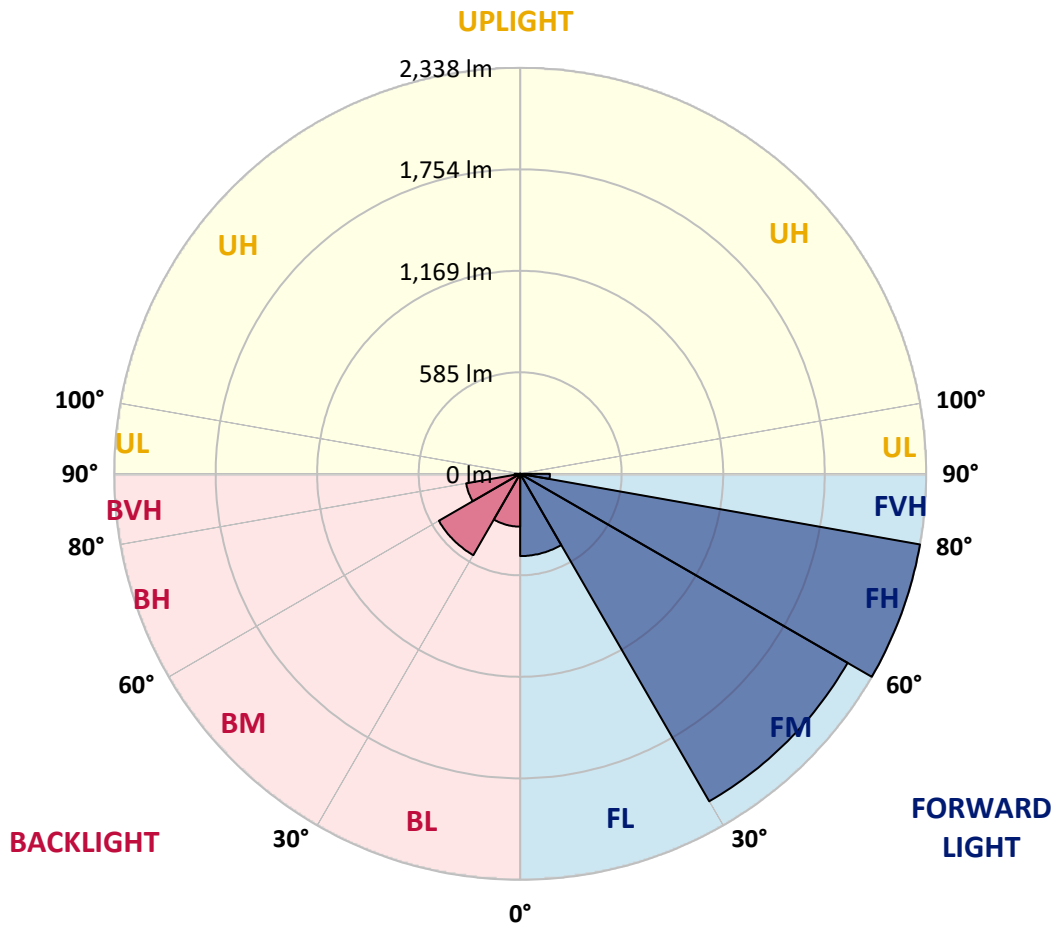
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 473.7 | 7.5 | | | |
| FM (30°-60°) | 2178.1 | 34.3 | | | |
| FH (60°-80°) | 2338.5 | 36.8 | | | G2/5000 |
| FVH (80°-90°) | 171.2 | 2.7 | | | G2/225 |
| BL (0°-30°) | 304.1 | 4.8 | B1/500 | | |
| BM (30°-60°) | 540.8 | 8.5 | B1/1000 | | |
| BH (60°-80°) | 315.7 | 5.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 30.9 | 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° | 1166.1 | 1166.1 | 1166.1 | 1166.1 | 1166.1 | 1166.1 | 1166.1 | 1166.1 | 1166.1 | 1166.1 |
| 2.5° | 1176.0 | 1171.9 | 1176.0 | 1174.3 | 1173.6 | 1172.2 | 1172.6 | 1175.0 | 1173.6 | 1175.3 |
| 5° | 1168.1 | 1165.7 | 1169.8 | 1168.8 | 1173.3 | 1173.9 | 1178.4 | 1181.1 | 1182.8 | 1183.2 |
| 7.5° | 1155.1 | 1152.8 | 1158.6 | 1163.3 | 1172.9 | 1175.6 | 1184.9 | 1189.3 | 1191.7 | 1195.8 |
| 10° | 1107.6 | 1106.6 | 1121.0 | 1139.1 | 1161.6 | 1175.6 | 1189.7 | 1197.2 | 1200.9 | 1211.9 |
| 12.5° | 1023.6 | 1024.9 | 1043.7 | 1078.6 | 1123.7 | 1168.8 | 1195.1 | 1206.1 | 1211.9 | 1225.5 |
| 15° | 943.3 | 942.9 | 963.4 | 1000.7 | 1063.9 | 1138.7 | 1197.9 | 1216.7 | 1226.6 | 1246.7 |
| 17.5° | 896.8 | 895.4 | 909.8 | 938.1 | 996.9 | 1092.6 | 1191.0 | 1222.5 | 1243.7 | 1268.9 |
| 20° | 888.2 | 885.5 | 893.0 | 907.0 | 948.7 | 1042.0 | 1173.3 | 1222.5 | 1257.3 | 1290.1 |
| 22.5° | 919.3 | 914.9 | 911.8 | 910.1 | 928.6 | 1000.3 | 1153.1 | 1218.4 | 1277.5 | 1320.6 |
| 25° | 981.9 | 975.0 | 959.3 | 943.9 | 938.5 | 981.5 | 1135.3 | 1217.3 | 1307.6 | 1361.6 |
| 27.5° | 1083.0 | 1074.5 | 1042.7 | 1005.8 | 972.6 | 991.1 | 1127.5 | 1223.5 | 1340.7 | 1405.0 |
| 30° | 1208.5 | 1199.2 | 1159.2 | 1102.5 | 1043.0 | 1026.6 | 1137.4 | 1241.6 | 1383.1 | 1462.7 |
| 32.5° | 1320.9 | 1310.6 | 1276.5 | 1218.7 | 1138.4 | 1088.2 | 1168.8 | 1276.1 | 1449.7 | 1543.0 |
| 35° | 1420.7 | 1408.7 | 1378.0 | 1324.7 | 1255.3 | 1174.6 | 1225.5 | 1337.3 | 1544.4 | 1673.6 |
| 37.5° | 1518.4 | 1504.4 | 1470.9 | 1414.5 | 1366.0 | 1289.8 | 1303.8 | 1415.9 | 1670.2 | 1832.2 |
| 40° | 1627.8 | 1607.6 | 1567.0 | 1511.3 | 1464.1 | 1424.8 | 1406.7 | 1512.3 | 1798.0 | 2009.2 |
| 42.5° | 1733.7 | 1714.6 | 1666.1 | 1618.6 | 1559.4 | 1548.2 | 1526.0 | 1625.1 | 1937.8 | 2203.7 |
| 45° | 1847.9 | 1825.0 | 1766.2 | 1706.1 | 1668.8 | 1630.2 | 1641.5 | 1737.8 | 2074.8 | 2401.9 |
| 47.5° | 1954.9 | 1929.2 | 1859.8 | 1792.9 | 1772.4 | 1699.2 | 1747.4 | 1861.9 | 2217.3 | 2602.8 |
| 50° | 2012.6 | 1987.3 | 1929.6 | 1869.1 | 1853.0 | 1784.3 | 1862.2 | 1998.3 | 2366.7 | 2803.1 |
| 52.5° | 2060.8 | 2033.5 | 1957.9 | 1924.4 | 1919.7 | 1876.9 | 2003.7 | 2154.1 | 2516.0 | 2980.1 |
| 55° | 2112.1 | 2081.6 | 1985.3 | 1955.2 | 1977.1 | 1980.8 | 2171.5 | 2330.8 | 2673.9 | 3152.7 |
| 57.5° | 2171.2 | 2132.6 | 2011.6 | 1981.2 | 2033.1 | 2102.5 | 2364.3 | 2514.0 | 2829.1 | 3312.7 |
| 60° | 2226.9 | 2187.9 | 2062.2 | 2022.5 | 2093.6 | 2243.6 | 2585.4 | 2735.8 | 3004.7 | 3455.2 |
| 62.5° | 2237.8 | 2205.7 | 2102.5 | 2102.2 | 2175.6 | 2408.4 | 2847.2 | 2959.6 | 3158.2 | 3596.0 |
| 65° | 2048.5 | 2028.3 | 1967.2 | 2099.1 | 2293.2 | 2645.6 | 3138.7 | 3246.0 | 3353.3 | 3719.0 |
| 67.5° | 1559.1 | 1561.8 | 1557.4 | 1812.0 | 2198.2 | 2986.3 | 3560.8 | 3552.6 | 3594.3 | 3857.1 |
| 70° | 712.9 | 729.0 | 833.5 | 1250.8 | 1761.1 | 3025.6 | 4258.6 | 4152.4 | 3896.7 | 4035.8 |
| 72.5° | 385.2 | 397.5 | 440.2 | 605.9 | 1058.8 | 2690.0 | 4780.2 | 4855.7 | 4299.0 | 4156.1 |
| 75° | 282.6 | 289.5 | 319.2 | 385.2 | 444.6 | 1999.3 | 4593.2 | 4980.8 | 4349.2 | 3875.5 |
| 77.5° | 211.5 | 214.6 | 238.9 | 305.2 | 227.6 | 1054.0 | 3670.1 | 4125.0 | 3723.1 | 3184.2 |
| 80° | 153.4 | 156.9 | 175.0 | 229.0 | 159.6 | 385.5 | 2520.1 | 2895.4 | 2549.9 | 2029.7 |
| 82.5° | 105.9 | 107.3 | 115.2 | 155.8 | 111.4 | 149.7 | 1429.9 | 1697.9 | 1423.4 | 712.2 |
| 85° | 63.9 | 65.6 | 69.0 | 90.9 | 63.2 | 71.1 | 617.2 | 638.4 | 425.5 | 170.2 |
| 87.5° | 26.3 | 28.0 | 30.8 | 38.3 | 24.9 | 19.8 | 101.8 | 127.8 | 79.6 | 49.9 |
| 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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 CATALOG NUMBER: GALN-SB2A-940-U-SL3

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1166.1 | 0° | 1166.1 | 1166.1 | 1166.1 | 1166.1 | 1166.1 | 1166.1 | 1166.1 | 1166.1 | 1166.1 | 1166.1 |
| 1169.5 | 2.5° | 1167.8 | 1165.4 | 1158.9 | 1150.0 | 1141.8 | 1131.6 | 1127.1 | 1123.4 | 1119.9 | 1113.4 |
| 1178.7 | 5° | 1175.0 | 1168.5 | 1151.0 | 1128.5 | 1102.9 | 1074.8 | 1047.5 | 1028.7 | 1012.6 | 1000.7 |
| 1189.3 | 7.5° | 1185.9 | 1173.6 | 1141.8 | 1095.7 | 1036.9 | 976.7 | 922.4 | 883.8 | 854.7 | 844.1 |
| 1204.4 | 10° | 1197.2 | 1182.5 | 1127.1 | 1045.8 | 944.3 | 851.7 | 779.6 | 739.9 | 716.7 | 709.1 |
| 1222.1 | 12.5° | 1210.5 | 1189.0 | 1104.2 | 976.4 | 840.7 | 739.2 | 676.3 | 653.1 | 641.1 | 637.0 |
| 1244.0 | 15° | 1230.0 | 1194.4 | 1069.7 | 889.6 | 742.0 | 657.2 | 616.5 | 600.5 | 594.3 | 594.0 |
| 1266.6 | 17.5° | 1244.7 | 1195.5 | 1016.0 | 796.6 | 666.1 | 607.6 | 574.2 | 568.0 | 572.1 | 578.3 |
| 1288.8 | 20° | 1261.1 | 1186.2 | 945.6 | 711.9 | 612.8 | 564.2 | 550.2 | 554.3 | 564.2 | 573.1 |
| 1318.2 | 22.5° | 1272.7 | 1169.5 | 860.5 | 645.9 | 566.6 | 539.3 | 538.6 | 547.2 | 552.6 | 557.1 |
| 1352.7 | 25° | 1283.0 | 1141.1 | 770.3 | 590.6 | 528.7 | 524.3 | 531.8 | 529.0 | 525.3 | 529.0 |
| 1387.2 | 27.5° | 1290.5 | 1096.4 | 689.7 | 542.0 | 502.0 | 514.0 | 509.6 | 503.4 | 503.1 | 505.1 |
| 1427.9 | 30° | 1288.1 | 1036.6 | 623.4 | 495.9 | 483.2 | 494.9 | 484.3 | 483.2 | 482.2 | 483.2 |
| 1489.0 | 32.5° | 1288.1 | 968.5 | 572.4 | 464.1 | 471.3 | 466.8 | 465.8 | 463.4 | 459.3 | 459.0 |
| 1572.1 | 35° | 1295.3 | 900.5 | 528.7 | 447.0 | 461.4 | 450.8 | 451.5 | 445.7 | 437.1 | 433.0 |
| 1682.1 | 37.5° | 1310.0 | 845.9 | 485.3 | 438.8 | 443.9 | 443.6 | 440.9 | 431.0 | 415.9 | 402.9 |
| 1819.5 | 40° | 1345.5 | 829.8 | 455.6 | 435.1 | 435.7 | 439.8 | 432.7 | 413.5 | 379.4 | 358.2 |
| 1959.0 | 42.5° | 1401.2 | 856.8 | 449.1 | 425.8 | 430.3 | 434.4 | 420.4 | 375.9 | 351.7 | 339.0 |
| 2105.2 | 45° | 1472.0 | 904.0 | 463.1 | 412.5 | 417.3 | 424.5 | 382.8 | 361.6 | 350.6 | 351.0 |
| 2250.1 | 47.5° | 1561.5 | 953.5 | 489.1 | 400.9 | 398.5 | 402.6 | 357.8 | 344.8 | 329.8 | 333.6 |
| 2389.2 | 50° | 1665.0 | 1003.7 | 513.7 | 385.2 | 377.6 | 364.3 | 341.8 | 329.5 | 310.3 | 301.4 |
| 2523.5 | 52.5° | 1777.1 | 1052.3 | 523.6 | 366.0 | 355.1 | 339.7 | 330.8 | 315.8 | 292.5 | 277.8 |
| 2650.3 | 55° | 1883.4 | 1096.4 | 512.6 | 343.1 | 332.5 | 320.6 | 319.2 | 310.0 | 285.0 | 264.5 |
| 2763.1 | 57.5° | 1983.9 | 1133.3 | 485.3 | 319.9 | 309.6 | 302.5 | 311.7 | 307.2 | 275.8 | 249.5 |
| 2869.7 | 60° | 2069.0 | 1158.6 | 445.7 | 296.3 | 289.1 | 285.4 | 299.4 | 298.0 | 262.8 | 233.4 |
| 2965.4 | 62.5° | 2136.7 | 1168.5 | 401.9 | 273.7 | 272.0 | 265.2 | 282.3 | 282.3 | 246.4 | 217.7 |
| 3049.5 | 65° | 2189.6 | 1158.9 | 357.5 | 251.5 | 255.0 | 244.7 | 261.4 | 259.4 | 229.0 | 203.7 |
| 3146.2 | 67.5° | 2236.5 | 1127.5 | 308.3 | 229.7 | 237.5 | 224.5 | 239.6 | 234.8 | 209.8 | 189.7 |
| 3230.0 | 70° | 2257.3 | 1054.3 | 252.2 | 207.8 | 217.4 | 204.7 | 217.7 | 208.8 | 188.3 | 174.6 |
| 3138.0 | 72.5° | 2089.9 | 876.3 | 198.6 | 184.9 | 193.1 | 182.8 | 194.1 | 183.9 | 165.1 | 158.9 |
| 2709.8 | 75° | 1729.0 | 657.5 | 152.8 | 159.9 | 166.1 | 158.2 | 165.8 | 158.2 | 141.1 | 145.6 |
| 2001.7 | 77.5° | 1255.6 | 443.9 | 116.9 | 133.6 | 136.4 | 132.3 | 138.8 | 130.2 | 114.8 | 113.8 |
| 997.6 | 80° | 624.4 | 260.1 | 91.6 | 105.6 | 104.6 | 101.8 | 109.4 | 105.3 | 92.3 | 97.7 |
| 269.3 | 82.5° | 180.8 | 111.4 | 66.6 | 74.2 | 72.1 | 72.8 | 78.3 | 80.3 | 120.3 | 119.3 |
| 83.7 | 85° | 56.7 | 43.7 | 40.0 | 41.4 | 39.3 | 40.3 | 46.1 | 91.6 | 84.8 | 49.6 |
| 26.0 | 87.5° | 14.7 | 15.0 | 9.9 | 10.6 | 10.9 | 13.0 | 14.7 | 55.7 | 26.7 | 17.4 |
| 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> |
| 1166.1 |
| 1110.4 |
| 990.8 |
| 825.7 |
| 697.5 |
| 638.1 |
| 595.3 |
| 580.6 |
| 576.2 |
| 559.5 |
| 531.4 |
| 508.5 |
| 487.0 |
| 463.4 |
| 437.1 |
| 407.4 |
| 360.9 |
| 339.0 |
| 352.7 |
| 343.1 |
| 303.8 |
| 277.5 |
| 264.5 |
| 248.1 |
| 232.4 |
| 216.7 |
| 202.3 |
| 188.3 |
| 171.9 |
| 153.8 |
| 132.9 |
| 108.7 |
| 96.7 |
| 122.0 |
| 53.7 |
| 18.5 |
| 0.0 |

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