

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: P939695

Luminaire Tested: **GALN-SB2B-930-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939695
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2B-930-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7762 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

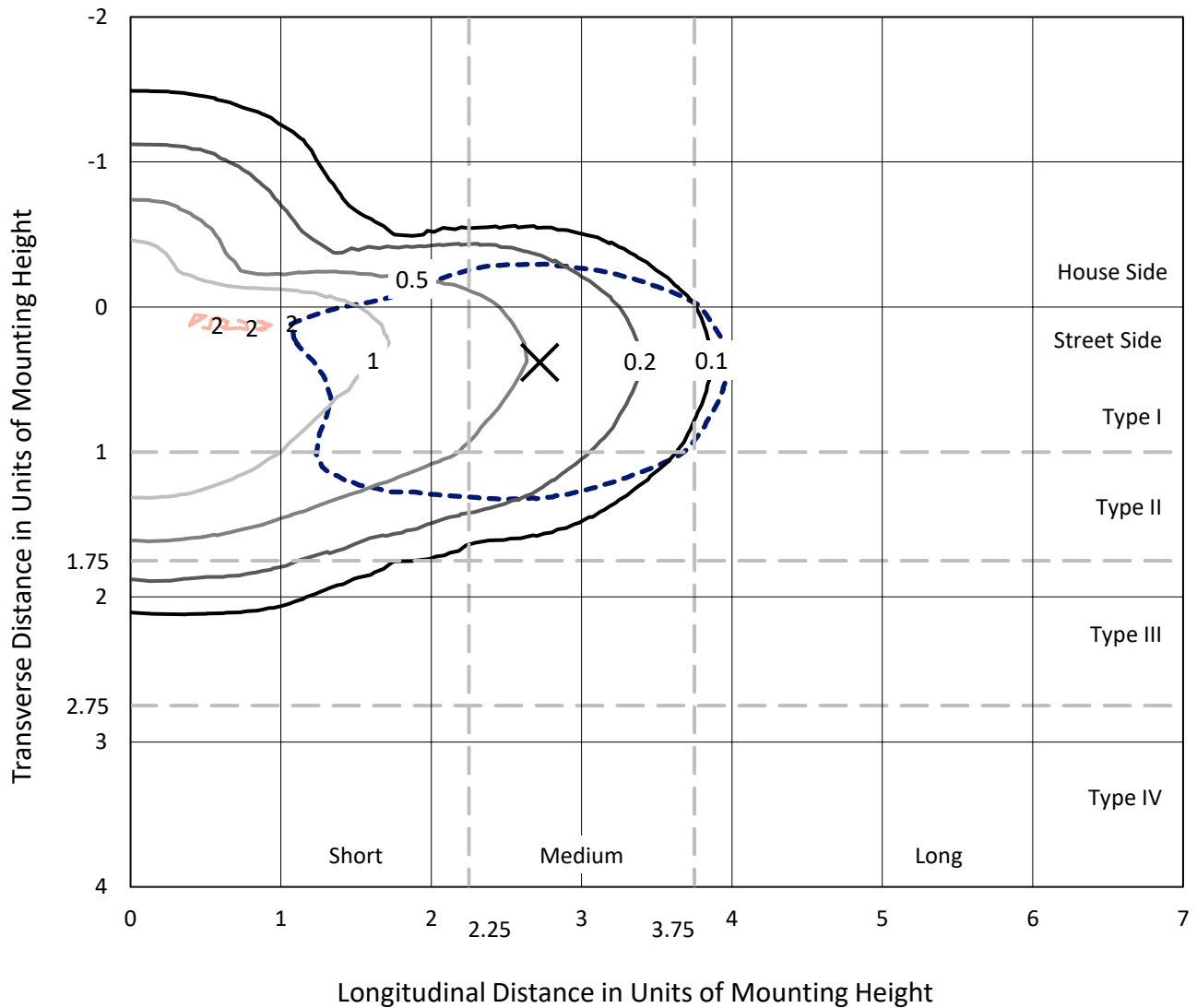
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

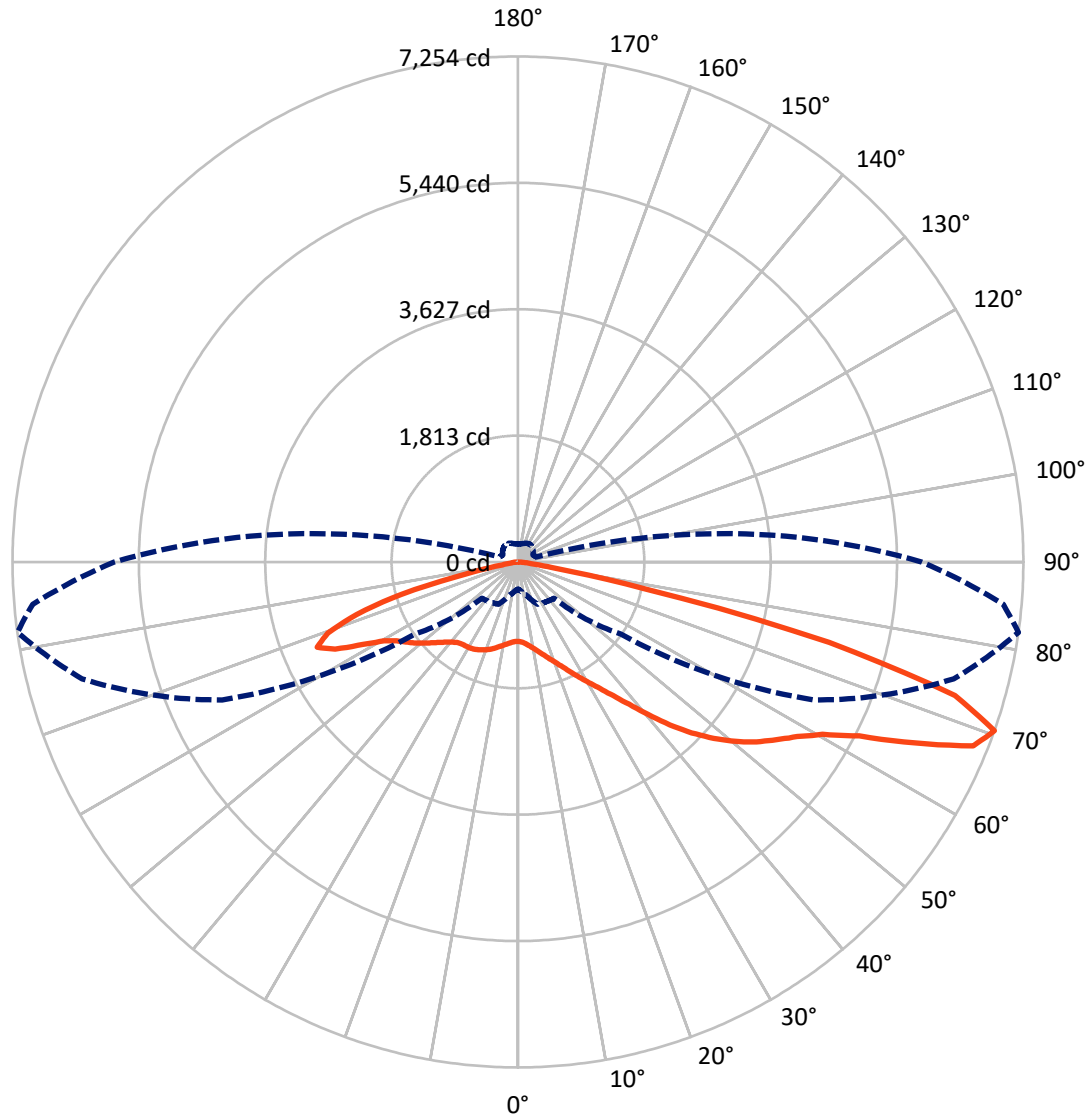
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1913.5 | 0.0 | 1913.5 |
| | % Fixture | 24.7 | 0.0 | 24.7 |
| Street Side | Lumens | 5848.5 | 0.0 | 5848.5 |
| | % Fixture | 75.3 | 0.0 | 75.3 |
| Total | Lumens | 7762.0 | 0.0 | 7762.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 107.4 | 1.4 |
| 10°-20° | 308.7 | 4.0 |
| 20°-30° | 516.4 | 6.7 |
| 30°-40° | 806.8 | 10.4 |
| 40°-50° | 1284.9 | 16.6 |
| 50°-60° | 1788.1 | 23.0 |
| 60°-70° | 1870.5 | 24.1 |
| 70°-80° | 977.6 | 12.6 |
| 80°-90° | 101.5 | 1.3 |
| 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° | 7762.0 | 100.0 |
| 0°-180° | 7762.0 | 100.0 |

Coefficient of Utilization



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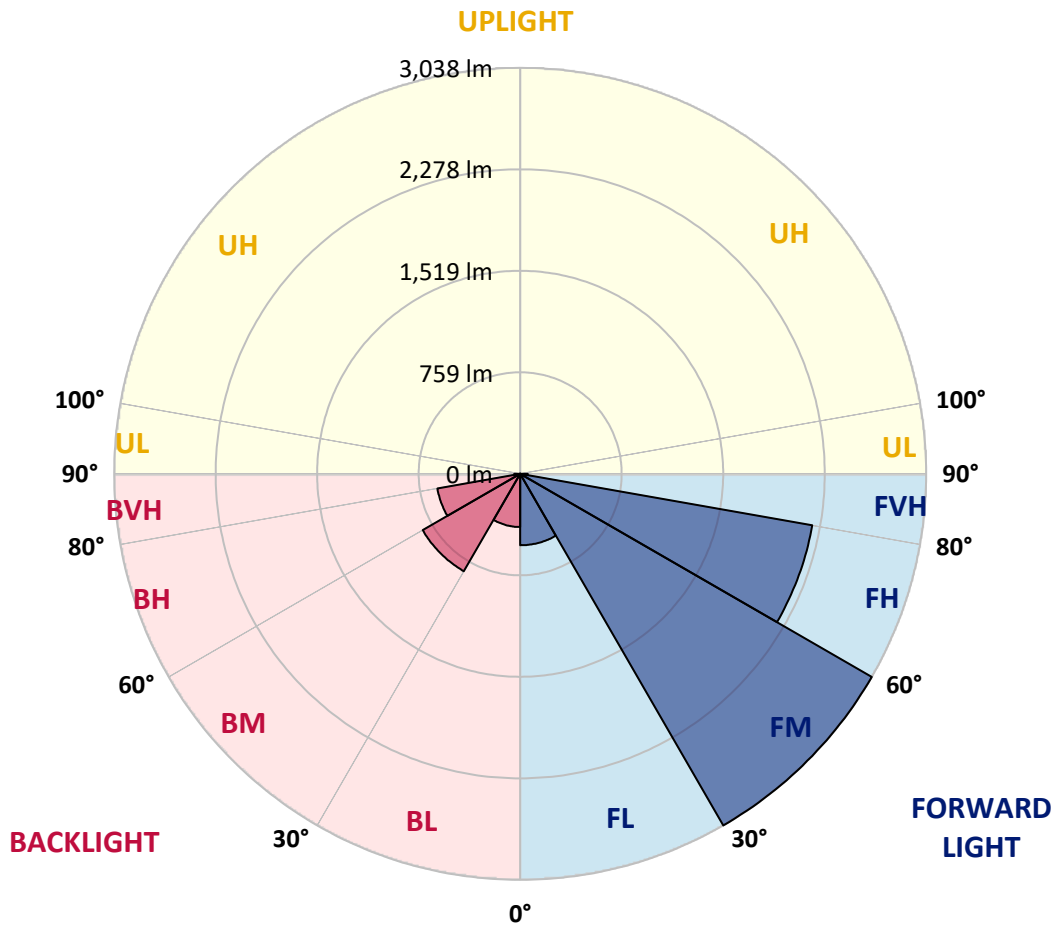
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 534.5 | 6.9 | | | |
| FM (30°-60°) | 3038.0 | 39.1 | | | |
| FH (60°-80°) | 2219.2 | 28.6 | | | G2/5000 |
| FVH (80°-90°) | 56.8 | 0.7 | | | G1/100 |
| BL (0°-30°) | 398.1 | 5.1 | B1/500 | | |
| BM (30°-60°) | 841.9 | 10.8 | B1/1000 | | |
| BH (60°-80°) | 628.9 | 8.1 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 44.7 | 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 II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 82° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1138.0 | 1138.0 | 1138.0 | 1138.0 | 1138.0 | 1138.0 | 1138.0 | 1138.0 | 1138.0 | 1138.0 |
| 2.5° | 1165.2 | 1171.8 | 1169.7 | 1167.7 | 1167.7 | 1164.8 | 1164.4 | 1160.2 | 1157.0 | 1151.6 |
| 5° | 1180.0 | 1187.0 | 1186.2 | 1187.8 | 1193.2 | 1194.4 | 1195.7 | 1193.2 | 1186.6 | 1180.0 |
| 7.5° | 1166.8 | 1174.7 | 1177.1 | 1187.0 | 1203.5 | 1218.3 | 1229.4 | 1234.0 | 1227.8 | 1218.3 |
| 10° | 1122.4 | 1131.0 | 1139.7 | 1163.1 | 1192.4 | 1227.4 | 1257.0 | 1274.7 | 1273.5 | 1264.5 |
| 12.5° | 1032.2 | 1041.2 | 1059.8 | 1105.5 | 1159.0 | 1220.8 | 1276.0 | 1313.1 | 1325.8 | 1319.2 |
| 15° | 960.1 | 967.9 | 981.9 | 1028.9 | 1098.5 | 1192.4 | 1283.0 | 1355.1 | 1387.6 | 1383.9 |
| 17.5° | 958.0 | 961.3 | 970.0 | 992.2 | 1045.7 | 1147.9 | 1275.6 | 1396.3 | 1458.4 | 1458.0 |
| 20° | 994.3 | 995.5 | 1000.4 | 1005.0 | 1035.4 | 1114.1 | 1256.6 | 1430.4 | 1537.9 | 1537.9 |
| 22.5° | 1044.5 | 1043.7 | 1048.6 | 1044.5 | 1059.3 | 1111.2 | 1244.7 | 1460.5 | 1626.5 | 1633.1 |
| 25° | 1119.9 | 1115.8 | 1114.5 | 1105.1 | 1107.9 | 1138.0 | 1257.9 | 1494.7 | 1731.5 | 1745.1 |
| 27.5° | 1220.4 | 1213.8 | 1209.3 | 1187.4 | 1180.0 | 1193.2 | 1298.2 | 1535.9 | 1848.5 | 1872.0 |
| 30° | 1351.4 | 1339.4 | 1332.8 | 1294.9 | 1268.2 | 1270.2 | 1359.2 | 1590.7 | 1970.8 | 2008.7 |
| 32.5° | 1530.1 | 1511.6 | 1493.9 | 1431.7 | 1382.7 | 1366.6 | 1437.9 | 1666.4 | 2103.4 | 2164.0 |
| 35° | 1730.3 | 1715.5 | 1696.5 | 1600.5 | 1525.2 | 1488.1 | 1544.1 | 1772.3 | 2258.7 | 2354.7 |
| 37.5° | 1923.0 | 1910.3 | 1919.3 | 1790.0 | 1692.8 | 1638.8 | 1683.3 | 1914.4 | 2450.2 | 2591.9 |
| 40° | 2122.4 | 2112.5 | 2113.7 | 1990.2 | 1876.9 | 1816.4 | 1852.2 | 2092.7 | 2669.8 | 2874.1 |
| 42.5° | 2339.0 | 2331.6 | 2306.9 | 2197.3 | 2070.1 | 2013.6 | 2046.6 | 2298.7 | 2905.4 | 3195.3 |
| 45° | 2581.6 | 2577.1 | 2554.0 | 2428.4 | 2282.6 | 2219.2 | 2263.7 | 2526.0 | 3142.2 | 3497.6 |
| 47.5° | 2791.3 | 2795.0 | 2792.1 | 2686.2 | 2535.1 | 2442.0 | 2495.1 | 2763.3 | 3362.5 | 3781.8 |
| 50° | 2892.2 | 2911.5 | 2940.0 | 2907.0 | 2813.1 | 2718.4 | 2728.7 | 2992.3 | 3572.6 | 4048.3 |
| 52.5° | 2839.5 | 2876.1 | 2953.5 | 3006.3 | 3042.5 | 3022.7 | 2995.1 | 3219.6 | 3770.3 | 4288.8 |
| 55° | 2643.0 | 2694.5 | 2823.0 | 2950.2 | 3135.2 | 3278.9 | 3315.2 | 3471.7 | 3963.0 | 4500.5 |
| 57.5° | 2285.1 | 2368.7 | 2484.0 | 2741.4 | 3052.8 | 3402.9 | 3688.3 | 3821.4 | 4167.3 | 4726.7 |
| 60° | 1671.4 | 1783.4 | 1926.7 | 2309.8 | 2764.5 | 3336.6 | 4005.9 | 4358.4 | 4457.7 | 5019.5 |
| 62.5° | 1069.6 | 1138.8 | 1270.6 | 1631.4 | 2154.1 | 2996.8 | 4103.1 | 5029.8 | 4949.9 | 5499.7 |
| 65° | 732.3 | 776.8 | 897.5 | 1100.1 | 1392.5 | 2230.7 | 3842.8 | 5533.1 | 5731.6 | 6260.9 |
| 67.5° | 532.1 | 565.9 | 668.9 | 846.4 | 907.4 | 1320.1 | 2982.0 | 5510.0 | 6491.5 | 7045.1 |
| 70° | 388.0 | 411.9 | 498.4 | 668.9 | 698.1 | 734.4 | 1806.5 | 4683.8 | 6475.1 | 7253.5 |
| 72.5° | 287.5 | 304.0 | 362.0 | 519.0 | 565.1 | 495.9 | 894.2 | 3404.1 | 5564.0 | 6560.7 |
| 75° | 208.0 | 220.4 | 263.2 | 397.0 | 452.2 | 377.7 | 446.1 | 1989.3 | 3881.1 | 4615.0 |
| 77.5° | 159.0 | 168.5 | 196.5 | 290.8 | 362.0 | 283.4 | 276.8 | 915.2 | 1840.3 | 1849.3 |
| 80° | 127.7 | 133.9 | 149.1 | 204.7 | 277.6 | 212.1 | 180.4 | 369.5 | 581.6 | 492.2 |
| 82.5° | 93.9 | 104.2 | 126.0 | 143.7 | 198.5 | 146.2 | 110.0 | 186.6 | 221.2 | 190.3 |
| 85° | 53.5 | 60.5 | 76.2 | 103.0 | 126.9 | 89.4 | 63.0 | 82.8 | 103.0 | 84.4 |
| 87.5° | 18.9 | 24.7 | 26.8 | 40.4 | 55.2 | 37.1 | 24.3 | 23.9 | 33.8 | 25.1 |
| 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° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1138.0 | 0° | 1138.0 | 1138.0 | 1138.0 | 1138.0 | 1138.0 | 1138.0 | 1138.0 | 1138.0 | 1138.0 | 1138.0 |
| 1150.4 | 2.5° | 1146.2 | 1144.2 | 1135.9 | 1124.8 | 1113.3 | 1102.2 | 1098.5 | 1090.6 | 1085.3 | 1082.4 |
| 1177.1 | 5° | 1169.3 | 1162.7 | 1143.4 | 1118.6 | 1092.7 | 1064.7 | 1044.9 | 1026.8 | 1013.6 | 1001.3 |
| 1213.8 | 7.5° | 1202.3 | 1190.7 | 1157.4 | 1114.1 | 1068.0 | 1021.4 | 986.8 | 960.5 | 942.8 | 931.2 |
| 1256.6 | 10° | 1240.6 | 1222.9 | 1171.8 | 1107.1 | 1035.9 | 969.1 | 928.4 | 905.7 | 894.6 | 888.4 |
| 1305.6 | 12.5° | 1284.6 | 1259.5 | 1186.6 | 1091.1 | 986.8 | 910.7 | 882.6 | 876.1 | 876.5 | 876.9 |
| 1367.4 | 15° | 1339.0 | 1304.0 | 1198.6 | 1056.0 | 923.0 | 865.8 | 860.8 | 871.5 | 882.6 | 888.0 |
| 1437.4 | 17.5° | 1400.4 | 1350.9 | 1200.6 | 998.4 | 860.4 | 836.9 | 852.6 | 875.6 | 892.5 | 899.9 |
| 1515.7 | 20° | 1466.3 | 1398.7 | 1185.8 | 916.8 | 808.9 | 813.5 | 841.5 | 871.1 | 889.6 | 899.1 |
| 1605.1 | 22.5° | 1541.6 | 1449.8 | 1150.4 | 831.2 | 766.9 | 787.9 | 820.9 | 849.7 | 869.1 | 878.5 |
| 1710.1 | 25° | 1627.7 | 1507.0 | 1094.8 | 759.1 | 730.7 | 759.1 | 792.0 | 815.9 | 831.6 | 840.2 |
| 1827.5 | 27.5° | 1723.3 | 1566.8 | 1020.6 | 701.8 | 698.9 | 729.4 | 756.6 | 775.1 | 783.4 | 790.0 |
| 1952.3 | 30° | 1819.2 | 1621.1 | 930.8 | 658.6 | 671.4 | 700.2 | 719.5 | 727.8 | 730.3 | 731.5 |
| 2091.5 | 32.5° | 1923.0 | 1668.1 | 836.5 | 622.8 | 645.0 | 671.8 | 683.3 | 687.0 | 675.5 | 667.6 |
| 2260.4 | 35° | 2048.7 | 1718.3 | 744.3 | 594.3 | 619.0 | 642.1 | 645.8 | 642.5 | 628.9 | 612.9 |
| 2472.1 | 37.5° | 2203.9 | 1780.9 | 670.5 | 574.2 | 594.7 | 610.0 | 605.5 | 604.6 | 605.9 | 586.9 |
| 2726.6 | 40° | 2394.2 | 1862.5 | 616.6 | 558.5 | 575.0 | 578.3 | 565.5 | 572.5 | 578.7 | 549.9 |
| 3005.9 | 42.5° | 2605.5 | 1960.9 | 582.4 | 547.8 | 558.5 | 550.7 | 530.9 | 538.7 | 537.9 | 500.0 |
| 3286.3 | 45° | 2820.9 | 2068.0 | 570.4 | 540.0 | 543.3 | 527.6 | 505.8 | 507.8 | 490.5 | 456.4 |
| 3555.3 | 47.5° | 3035.1 | 2182.9 | 577.9 | 533.4 | 524.3 | 506.6 | 489.7 | 480.7 | 455.1 | 429.6 |
| 3813.1 | 50° | 3245.2 | 2303.6 | 605.0 | 520.2 | 498.4 | 488.1 | 475.7 | 459.7 | 432.5 | 410.6 |
| 4057.0 | 52.5° | 3440.0 | 2425.1 | 635.5 | 498.4 | 465.8 | 472.0 | 464.2 | 445.6 | 418.9 | 396.6 |
| 4287.6 | 55° | 3624.5 | 2546.6 | 647.5 | 468.3 | 435.4 | 458.0 | 453.5 | 419.3 | 387.2 | 369.0 |
| 4529.0 | 57.5° | 3825.5 | 2692.8 | 634.3 | 430.0 | 410.6 | 441.9 | 424.6 | 386.7 | 368.2 | 354.6 |
| 4843.2 | 60° | 4103.9 | 2922.2 | 605.9 | 382.6 | 387.2 | 418.1 | 388.4 | 372.7 | 352.6 | 337.3 |
| 5314.4 | 62.5° | 4566.4 | 3350.2 | 560.1 | 335.7 | 359.6 | 382.6 | 371.1 | 355.4 | 334.9 | 320.0 |
| 6120.0 | 65° | 5250.2 | 3944.9 | 474.1 | 299.0 | 328.7 | 348.0 | 352.6 | 336.9 | 315.5 | 299.8 |
| 6826.0 | 67.5° | 5826.8 | 4318.1 | 358.7 | 268.5 | 297.0 | 320.0 | 332.8 | 317.6 | 294.9 | 279.7 |
| 6991.1 | 70° | 5795.1 | 4047.1 | 273.9 | 238.5 | 269.0 | 292.4 | 308.9 | 297.0 | 272.7 | 258.2 |
| 6350.3 | 72.5° | 5147.2 | 3385.6 | 221.6 | 208.0 | 240.5 | 263.6 | 283.4 | 274.3 | 249.6 | 235.6 |
| 4652.1 | 75° | 3781.4 | 2403.3 | 177.1 | 177.1 | 205.1 | 233.5 | 255.4 | 249.6 | 226.9 | 217.1 |
| 1953.1 | 77.5° | 1594.0 | 1008.3 | 138.8 | 147.0 | 170.5 | 200.6 | 227.8 | 229.8 | 210.1 | 222.4 |
| 516.5 | 80° | 423.8 | 278.0 | 105.9 | 115.7 | 133.9 | 165.6 | 198.1 | 197.3 | 175.9 | 164.3 |
| 191.9 | 82.5° | 161.5 | 109.6 | 75.4 | 81.6 | 96.8 | 126.9 | 156.9 | 161.9 | 140.4 | 121.5 |
| 75.4 | 85° | 62.2 | 47.0 | 46.5 | 49.0 | 56.4 | 84.0 | 118.6 | 122.7 | 105.9 | 89.8 |
| 21.0 | 87.5° | 16.1 | 14.0 | 17.3 | 16.5 | 25.9 | 44.9 | 68.0 | 70.4 | 64.7 | 37.5 |
| 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> |
|-------------|
| 1138.0 |
| 1085.7 |
| 1006.2 |
| 933.7 |
| 890.1 |
| 877.7 |
| 887.6 |
| 901.6 |
| 901.6 |
| 881.0 |
| 842.7 |
| 792.4 |
| 734.4 |
| 670.1 |
| 613.7 |
| 588.2 |
| 550.7 |
| 499.6 |
| 457.6 |
| 429.6 |
| 409.0 |
| 397.0 |
| 367.4 |
| 353.4 |
| 336.5 |
| 320.0 |
| 300.7 |
| 280.1 |
| 259.5 |
| 235.6 |
| 214.2 |
| 201.8 |
| 152.8 |
| 121.5 |
| 92.7 |
| 53.5 |
| 0.0 |

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