

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: P939657

Luminaire Tested: **GALN-SB2B-835-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939657
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2B-835-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10452 lumens
Efficiency: N/A
Efficacy: 141.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

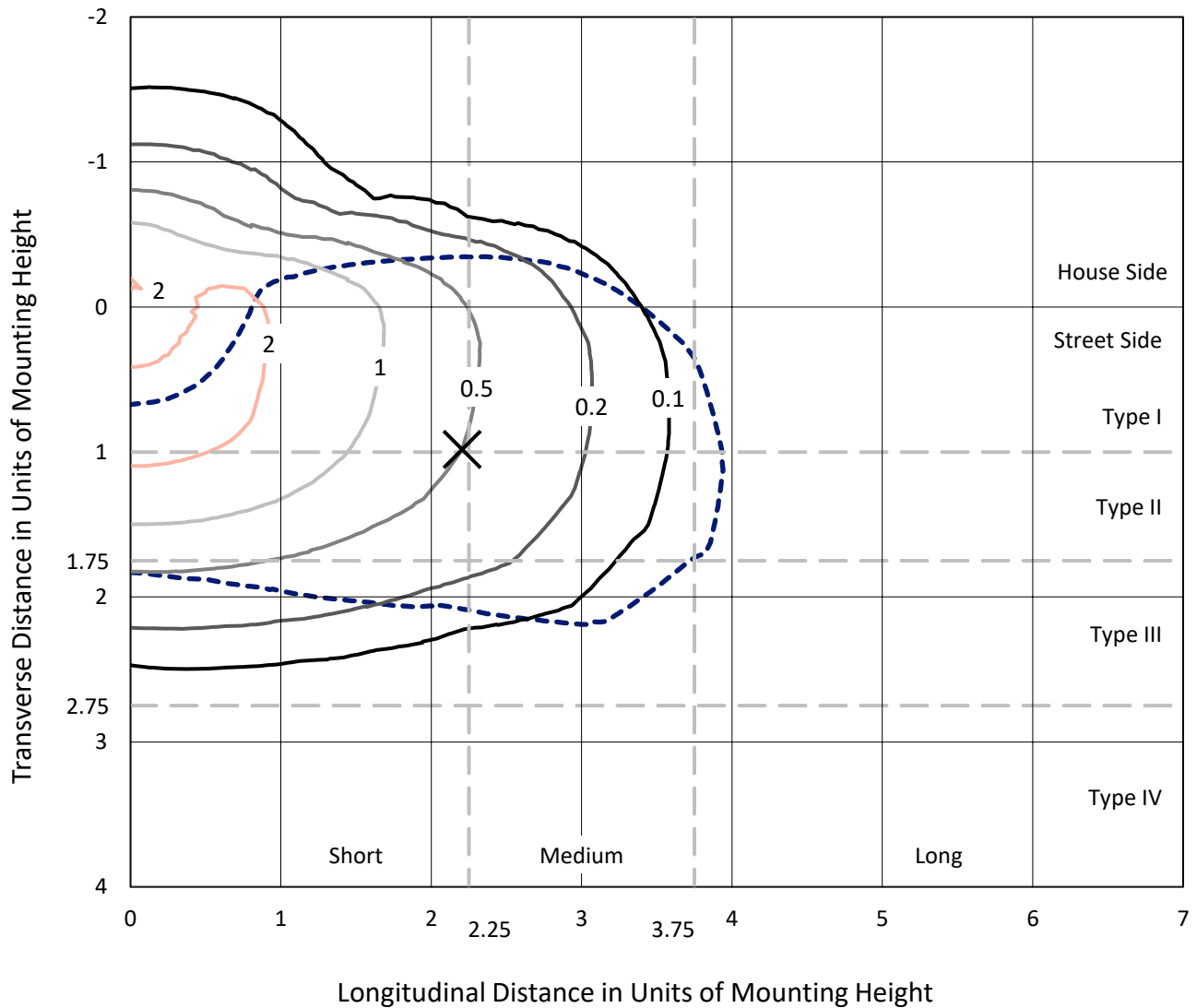
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

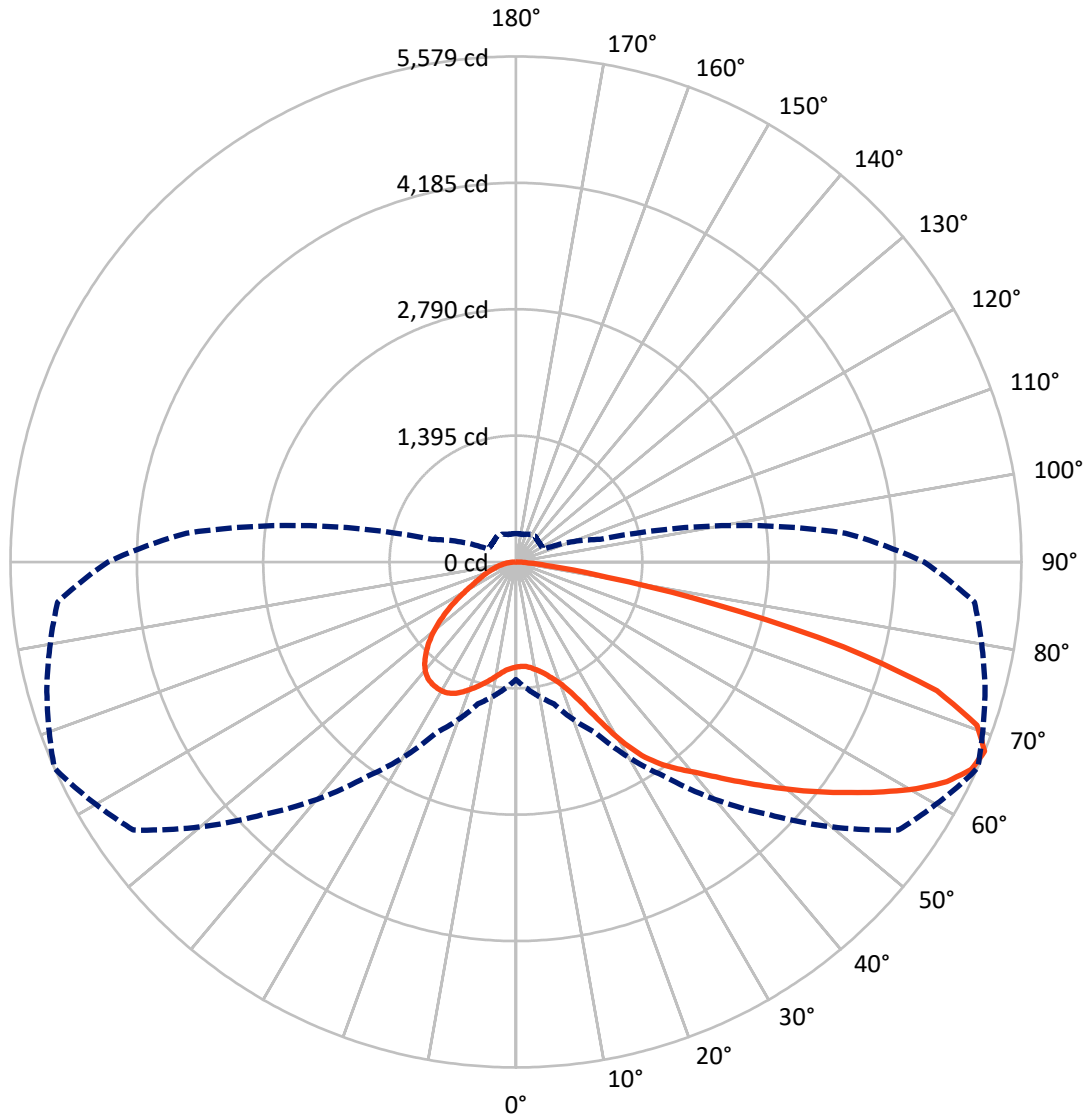
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2598.9 | 0.0 | 2598.9 |
| | % Fixture | 24.9 | 0.0 | 24.9 |
| Street Side | Lumens | 7853.1 | 0.0 | 7853.1 |
| | % Fixture | 75.1 | 0.0 | 75.1 |
| Total | Lumens | 10452.0 | 0.0 | 10452.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 114.9 | 1.1 |
| 10°-20° | 379.7 | 3.6 |
| 20°-30° | 731.9 | 7.0 |
| 30°-40° | 1283.3 | 12.3 |
| 40°-50° | 1907.9 | 18.3 |
| 50°-60° | 2418.4 | 23.1 |
| 60°-70° | 2366.4 | 22.6 |
| 70°-80° | 1128.8 | 10.8 |
| 80°-90° | 120.6 | 1.2 |
| 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° | 10452.0 | 100.0 |
| 0°-180° | 10452.0 | 100.0 |

Coefficient of Utilization



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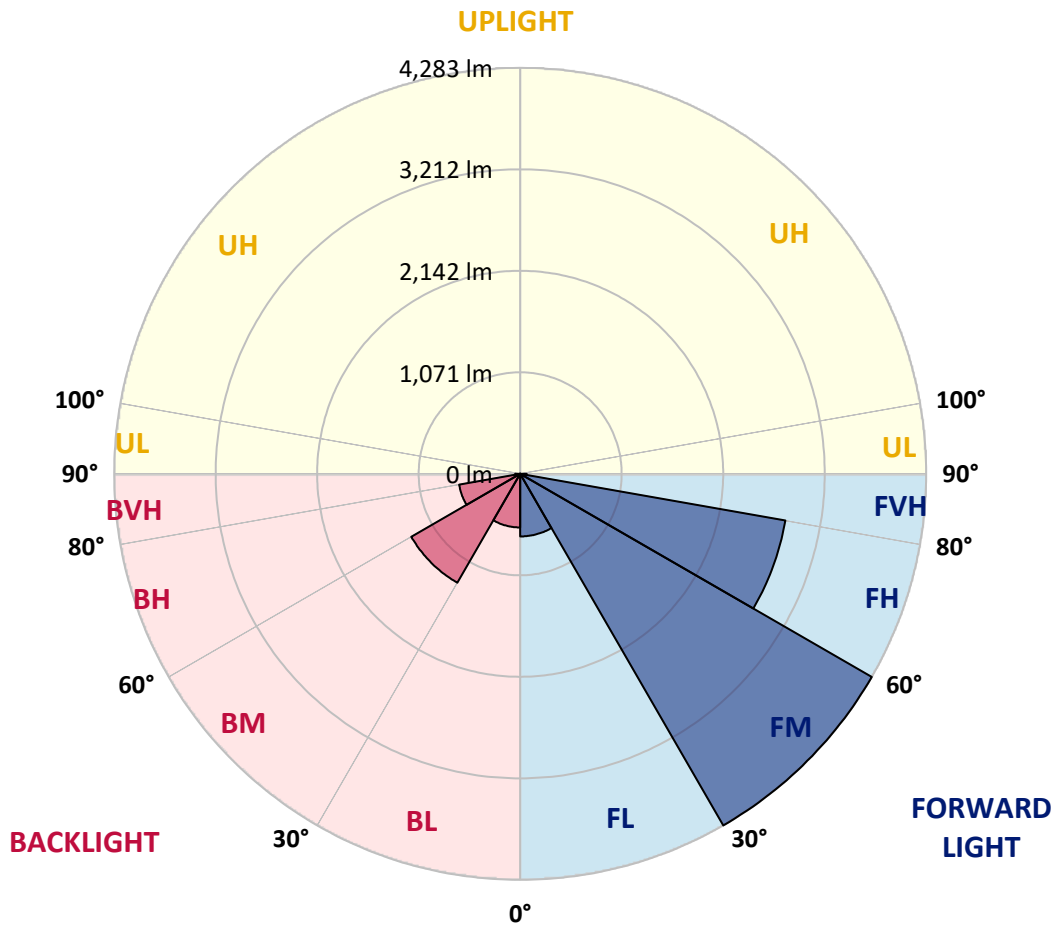
CATALOG NUMBER: GALN-SB2B-835-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 660.5 | 6.3 | | | |
| FM (30°-60°) | 4283.1 | 41.0 | | | |
| FH (60°-80°) | 2841.1 | 27.2 | | | G2/5000 |
| FVH (80°-90°) | 68.4 | 0.7 | | | G1/100 |
| BL (0°-30°) | 566.1 | 5.4 | B2/1000 | | |
| BM (30°-60°) | 1326.5 | 12.7 | B2/2500 | | |
| BH (60°-80°) | 654.0 | 6.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 52.2 | 0.5 | | | 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 III Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1159.3 | 1159.3 | 1159.3 | 1159.3 | 1159.3 | 1159.3 | 1159.3 | 1159.3 | 1159.3 | 1159.3 |
| 2.5° | 1147.2 | 1153.8 | 1152.1 | 1149.4 | 1148.8 | 1149.9 | 1151.6 | 1153.2 | 1152.7 | 1155.4 |
| 5° | 1143.9 | 1150.5 | 1149.9 | 1149.9 | 1152.1 | 1156.5 | 1159.3 | 1162.0 | 1159.3 | 1162.6 |
| 7.5° | 1146.1 | 1151.0 | 1153.2 | 1155.4 | 1160.9 | 1169.1 | 1175.7 | 1181.8 | 1178.5 | 1182.3 |
| 10° | 1174.1 | 1177.9 | 1180.1 | 1180.1 | 1184.0 | 1193.3 | 1199.9 | 1210.9 | 1208.1 | 1214.2 |
| 12.5° | 1225.2 | 1229.0 | 1229.0 | 1226.8 | 1229.6 | 1235.6 | 1237.8 | 1249.9 | 1244.9 | 1254.8 |
| 15° | 1287.8 | 1295.5 | 1289.4 | 1285.6 | 1286.7 | 1292.7 | 1292.2 | 1301.5 | 1296.6 | 1304.8 |
| 17.5° | 1357.0 | 1366.8 | 1357.0 | 1356.4 | 1354.2 | 1360.8 | 1361.4 | 1369.6 | 1360.8 | 1366.8 |
| 20° | 1438.8 | 1452.5 | 1444.3 | 1447.0 | 1442.1 | 1444.8 | 1447.6 | 1459.7 | 1445.9 | 1450.3 |
| 22.5° | 1554.1 | 1570.6 | 1561.8 | 1572.2 | 1568.9 | 1566.7 | 1566.2 | 1587.6 | 1566.2 | 1567.8 |
| 25° | 1722.1 | 1741.9 | 1726.5 | 1740.8 | 1740.8 | 1748.0 | 1756.2 | 1783.7 | 1748.0 | 1737.5 |
| 27.5° | 1970.4 | 1990.1 | 1959.9 | 1968.7 | 1966.0 | 1983.5 | 1974.8 | 2042.9 | 2004.4 | 1987.4 |
| 30° | 2269.1 | 2304.3 | 2247.1 | 2244.9 | 2242.2 | 2270.2 | 2282.8 | 2327.9 | 2288.9 | 2271.9 |
| 32.5° | 2592.0 | 2628.8 | 2560.7 | 2540.9 | 2530.5 | 2547.5 | 2537.1 | 2573.3 | 2546.4 | 2520.1 |
| 35° | 2933.6 | 2969.8 | 2905.0 | 2866.6 | 2824.9 | 2789.2 | 2751.8 | 2761.1 | 2735.9 | 2695.8 |
| 37.5° | 3256.5 | 3322.9 | 3254.3 | 3213.1 | 3136.2 | 3066.5 | 2962.1 | 2918.8 | 2895.1 | 2858.3 |
| 40° | 3585.4 | 3623.3 | 3571.2 | 3536.0 | 3452.5 | 3343.3 | 3176.3 | 3084.6 | 3052.7 | 3017.1 |
| 42.5° | 3827.6 | 3863.9 | 3835.8 | 3811.7 | 3746.3 | 3619.5 | 3403.7 | 3288.9 | 3242.8 | 3202.7 |
| 45° | 4019.8 | 4046.7 | 4029.1 | 4037.9 | 4009.9 | 3886.9 | 3639.2 | 3508.0 | 3460.2 | 3411.3 |
| 47.5° | 4097.2 | 4125.8 | 4153.8 | 4206.0 | 4253.7 | 4163.1 | 3892.4 | 3745.2 | 3694.7 | 3644.7 |
| 50° | 4088.5 | 4117.6 | 4198.8 | 4309.8 | 4458.0 | 4427.8 | 4159.3 | 3997.8 | 3951.2 | 3894.1 |
| 52.5° | 4018.2 | 4051.1 | 4155.5 | 4340.0 | 4576.1 | 4626.1 | 4431.1 | 4258.7 | 4214.8 | 4146.7 |
| 55° | 3833.6 | 3853.4 | 4009.9 | 4271.3 | 4604.1 | 4764.5 | 4697.5 | 4536.6 | 4492.6 | 4397.6 |
| 57.5° | 3491.5 | 3520.1 | 3748.0 | 4086.3 | 4533.8 | 4858.4 | 4931.4 | 4828.7 | 4786.4 | 4649.7 |
| 60° | 3045.1 | 3090.6 | 3351.5 | 3775.4 | 4354.8 | 4857.8 | 5143.9 | 5115.9 | 5080.8 | 4897.9 |
| 62.5° | 2539.8 | 2592.6 | 2843.5 | 3336.1 | 4041.8 | 4720.0 | 5276.8 | 5356.5 | 5338.3 | 5126.9 |
| 65° | 1950.6 | 1986.8 | 2236.7 | 2767.7 | 3554.7 | 4424.0 | 5292.2 | 5520.6 | 5523.9 | 5301.0 |
| 67.5° | 1298.8 | 1403.1 | 1620.0 | 2076.9 | 2902.3 | 3940.2 | 5157.1 | 5547.6 | 5579.4 | 5360.8 |
| 70° | 633.7 | 771.0 | 983.5 | 1349.8 | 2076.9 | 3198.3 | 4804.0 | 5326.8 | 5397.6 | 5186.2 |
| 72.5° | 263.0 | 307.5 | 423.4 | 666.1 | 1192.2 | 2158.2 | 4094.5 | 4728.2 | 4859.5 | 4595.3 |
| 75° | 177.4 | 192.2 | 242.2 | 341.6 | 543.1 | 1064.3 | 2952.8 | 3525.6 | 3737.0 | 3470.7 |
| 77.5° | 136.7 | 146.1 | 176.3 | 238.9 | 322.9 | 402.5 | 1580.5 | 2124.7 | 2234.0 | 2068.1 |
| 80° | 107.6 | 114.8 | 131.8 | 174.1 | 229.0 | 215.3 | 538.7 | 962.7 | 1025.8 | 860.5 |
| 82.5° | 93.4 | 96.1 | 94.5 | 118.1 | 152.1 | 125.8 | 176.8 | 355.3 | 392.1 | 284.5 |
| 85° | 67.5 | 75.2 | 78.5 | 73.0 | 80.7 | 63.7 | 72.5 | 125.8 | 138.4 | 123.6 |
| 87.5° | 27.5 | 40.6 | 50.0 | 47.2 | 29.7 | 18.1 | 22.5 | 36.8 | 42.3 | 46.1 |
| 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° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1159.3 | 0° | 1159.3 | 1159.3 | 1159.3 | 1159.3 | 1159.3 | 1159.3 | 1159.3 | 1159.3 | 1159.3 | 1159.3 |
| 1159.8 | 2.5° | 1160.4 | 1164.2 | 1167.0 | 1170.2 | 1172.4 | 1175.7 | 1182.3 | 1186.2 | 1186.7 | 1189.5 |
| 1168.6 | 5° | 1170.8 | 1176.3 | 1182.3 | 1191.1 | 1201.0 | 1209.2 | 1221.9 | 1230.7 | 1233.9 | 1236.7 |
| 1190.0 | 7.5° | 1193.3 | 1201.0 | 1212.0 | 1227.4 | 1241.6 | 1252.6 | 1268.0 | 1278.4 | 1288.9 | 1292.7 |
| 1224.1 | 10° | 1226.8 | 1237.8 | 1253.7 | 1274.6 | 1290.0 | 1304.2 | 1320.2 | 1329.0 | 1339.4 | 1343.8 |
| 1264.7 | 12.5° | 1268.5 | 1280.1 | 1300.9 | 1330.1 | 1344.3 | 1354.2 | 1359.7 | 1357.5 | 1359.7 | 1363.6 |
| 1313.6 | 15° | 1316.3 | 1329.0 | 1352.6 | 1383.9 | 1393.8 | 1385.0 | 1372.9 | 1361.9 | 1360.3 | 1361.4 |
| 1372.9 | 17.5° | 1372.9 | 1382.2 | 1409.7 | 1436.0 | 1428.9 | 1392.7 | 1366.3 | 1348.7 | 1339.9 | 1337.2 |
| 1448.7 | 20° | 1452.0 | 1452.0 | 1474.5 | 1491.0 | 1443.2 | 1381.7 | 1340.5 | 1311.9 | 1293.8 | 1286.1 |
| 1551.9 | 22.5° | 1548.1 | 1539.3 | 1553.6 | 1542.0 | 1440.4 | 1350.9 | 1293.8 | 1244.4 | 1216.9 | 1205.9 |
| 1696.3 | 25° | 1670.0 | 1659.5 | 1655.7 | 1584.3 | 1420.7 | 1302.0 | 1209.2 | 1149.4 | 1125.2 | 1119.2 |
| 1904.5 | 27.5° | 1853.9 | 1827.6 | 1777.6 | 1607.4 | 1384.4 | 1225.2 | 1110.4 | 1054.9 | 1041.2 | 1041.7 |
| 2171.9 | 30° | 2098.9 | 2046.1 | 1923.7 | 1611.2 | 1325.1 | 1116.4 | 1009.3 | 969.8 | 963.2 | 966.0 |
| 2396.5 | 32.5° | 2325.7 | 2275.7 | 2073.1 | 1593.6 | 1233.9 | 1009.9 | 918.7 | 892.4 | 882.5 | 885.8 |
| 2567.8 | 35° | 2503.6 | 2489.9 | 2211.4 | 1568.9 | 1121.9 | 909.9 | 837.5 | 814.9 | 795.7 | 791.3 |
| 2729.3 | 37.5° | 2671.6 | 2666.1 | 2315.2 | 1534.3 | 1011.0 | 839.1 | 772.1 | 742.5 | 714.4 | 699.1 |
| 2907.8 | 40° | 2856.2 | 2850.7 | 2383.3 | 1481.1 | 912.7 | 777.6 | 713.4 | 674.4 | 639.8 | 611.8 |
| 3109.9 | 42.5° | 3063.7 | 3031.3 | 2415.7 | 1404.7 | 829.2 | 725.4 | 665.6 | 612.9 | 567.3 | 541.5 |
| 3338.3 | 45° | 3290.5 | 3217.5 | 2415.2 | 1307.5 | 758.9 | 677.7 | 614.5 | 539.8 | 497.5 | 473.4 |
| 3572.8 | 47.5° | 3531.1 | 3395.4 | 2385.5 | 1199.9 | 690.8 | 624.9 | 535.4 | 478.3 | 450.3 | 435.5 |
| 3827.6 | 50° | 3779.3 | 3561.8 | 2335.0 | 1076.3 | 621.1 | 565.1 | 486.0 | 447.0 | 425.6 | 411.9 |
| 4080.2 | 52.5° | 4012.7 | 3712.8 | 2274.0 | 936.3 | 550.3 | 506.9 | 464.0 | 433.8 | 411.3 | 395.9 |
| 4325.1 | 55° | 4229.6 | 3843.0 | 2187.8 | 793.0 | 492.6 | 467.9 | 453.6 | 428.3 | 402.5 | 384.4 |
| 4573.9 | 57.5° | 4422.3 | 3927.6 | 2039.0 | 658.4 | 451.4 | 441.0 | 442.6 | 419.0 | 389.4 | 374.0 |
| 4818.8 | 60° | 4582.7 | 3989.6 | 1818.8 | 533.8 | 417.9 | 414.6 | 425.6 | 401.4 | 366.8 | 349.3 |
| 5025.9 | 62.5° | 4678.8 | 3988.5 | 1548.6 | 437.1 | 389.4 | 390.4 | 403.1 | 379.5 | 344.3 | 327.8 |
| 5134.0 | 65° | 4670.6 | 3890.8 | 1252.1 | 374.0 | 361.9 | 363.0 | 379.5 | 355.3 | 325.6 | 315.8 |
| 5079.7 | 67.5° | 4505.3 | 3652.4 | 960.5 | 332.8 | 331.7 | 336.6 | 355.9 | 338.8 | 314.1 | 313.0 |
| 4755.7 | 70° | 4057.7 | 3157.6 | 691.9 | 299.8 | 300.4 | 307.5 | 332.8 | 328.4 | 308.1 | 310.3 |
| 3998.4 | 72.5° | 3253.7 | 2407.5 | 464.6 | 265.2 | 265.8 | 277.3 | 310.8 | 320.2 | 302.0 | 331.1 |
| 2836.9 | 75° | 2167.0 | 1501.4 | 298.7 | 228.4 | 229.0 | 243.8 | 291.6 | 304.2 | 285.6 | 330.0 |
| 1476.1 | 77.5° | 1041.2 | 674.9 | 216.4 | 192.2 | 192.2 | 205.9 | 252.1 | 272.4 | 243.3 | 256.5 |
| 474.5 | 80° | 359.7 | 253.7 | 170.2 | 154.9 | 151.6 | 160.9 | 212.5 | 236.1 | 209.8 | 193.3 |
| 154.9 | 82.5° | 141.7 | 131.8 | 136.7 | 120.3 | 109.3 | 115.3 | 165.3 | 194.9 | 154.3 | 139.5 |
| 87.3 | 85° | 81.3 | 85.7 | 96.7 | 79.6 | 63.2 | 70.8 | 121.4 | 140.0 | 116.4 | 102.7 |
| 28.6 | 87.5° | 22.0 | 30.2 | 44.5 | 41.2 | 28.6 | 30.2 | 57.7 | 77.4 | 67.0 | 51.6 |
| 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> |
|-------------|
| 1159.3 |
| 1188.9 |
| 1236.1 |
| 1293.3 |
| 1346.0 |
| 1364.6 |
| 1365.2 |
| 1341.0 |
| 1284.5 |
| 1204.3 |
| 1120.3 |
| 1043.4 |
| 975.3 |
| 890.2 |
| 794.6 |
| 699.6 |
| 614.5 |
| 543.1 |
| 472.3 |
| 432.2 |
| 406.9 |
| 389.4 |
| 377.3 |
| 364.1 |
| 341.6 |
| 322.9 |
| 315.2 |
| 314.7 |
| 309.7 |
| 335.5 |
| 332.8 |
| 235.0 |
| 181.2 |
| 138.9 |
| 104.9 |
| 53.3 |
| 0.0 |

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