

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: P939286

Luminaire Tested: **GALN-SB1D-760-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939286
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-760-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8446 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

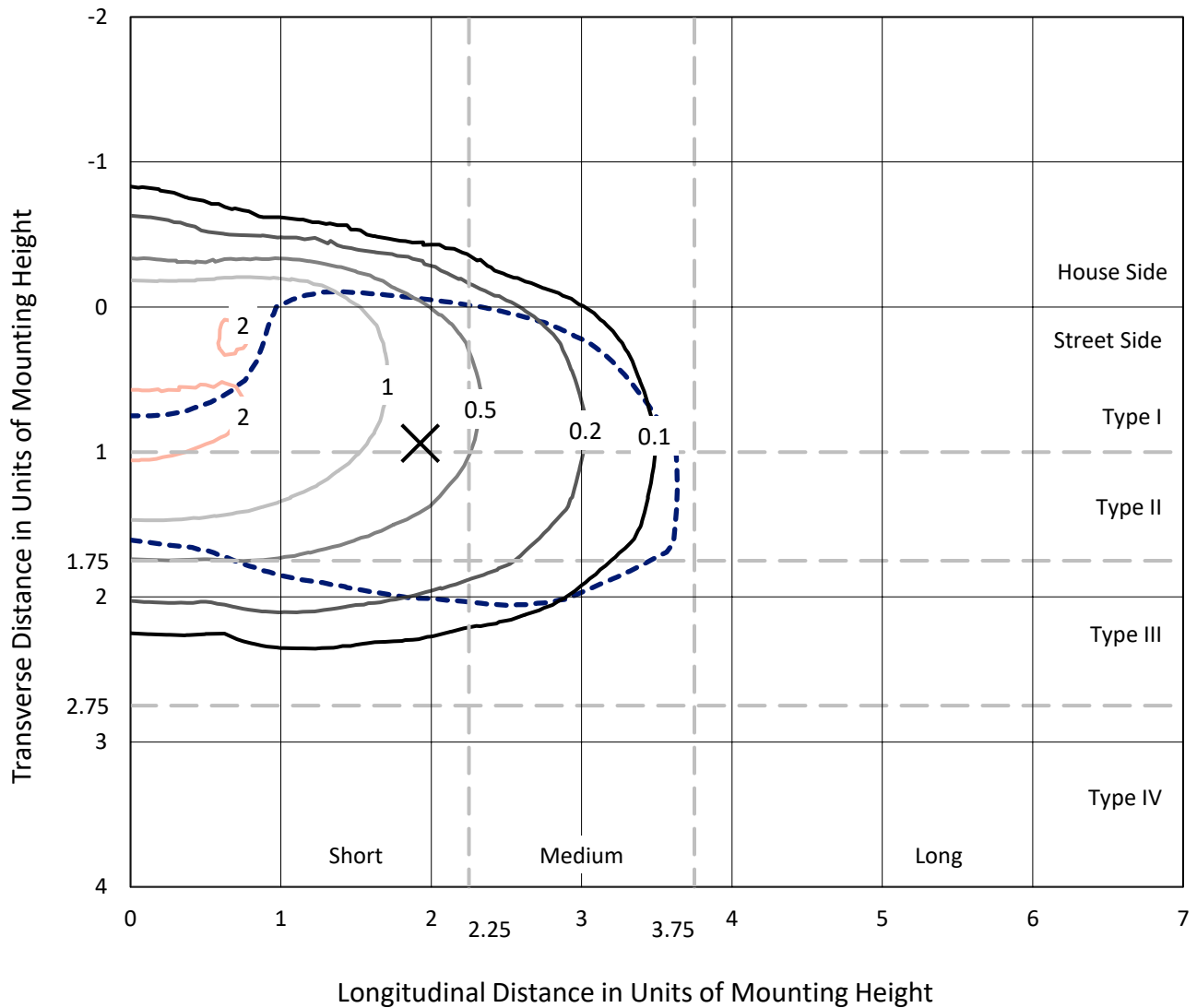
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

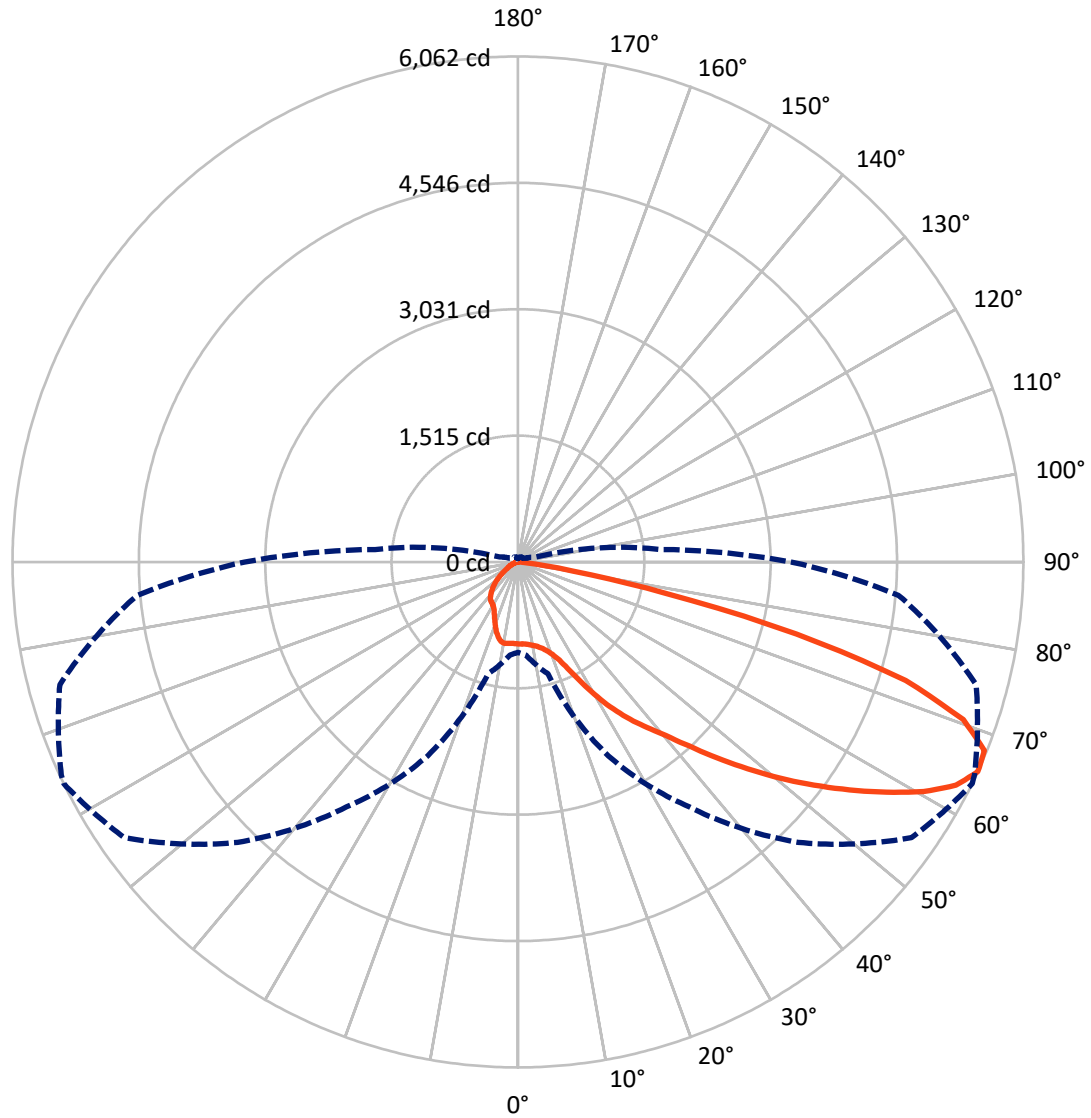
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1129.5 | 0.0 | 1129.5 |
| | % Fixture | 13.4 | 0.0 | 13.4 |
| Street Side | Lumens | 7316.5 | 0.0 | 7316.5 |
| | % Fixture | 86.6 | 0.0 | 86.6 |
| Total | Lumens | 8446.0 | 0.0 | 8446.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 90.6 | 1.1 |
| 10°-20° | 245.8 | 2.9 |
| 20°-30° | 465.8 | 5.5 |
| 30°-40° | 942.6 | 11.2 |
| 40°-50° | 1605.7 | 19.0 |
| 50°-60° | 2183.6 | 25.9 |
| 60°-70° | 2050.5 | 24.3 |
| 70°-80° | 821.5 | 9.7 |
| 80°-90° | 39.8 | 0.5 |
| 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° | 8446.0 | 100.0 |
| 0°-180° | 8446.0 | 100.0 |

Coefficient of Utilization



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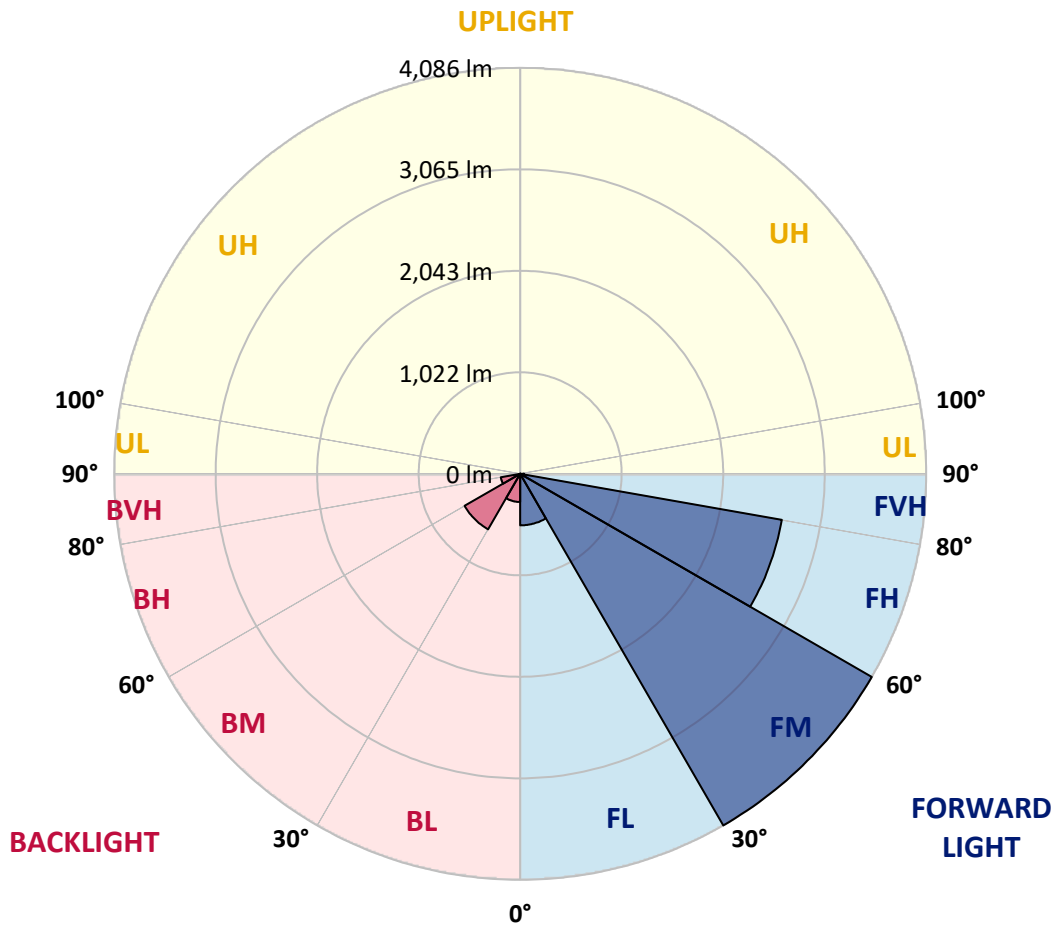
CATALOG NUMBER: GALN-SB1D-760-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 518.7 | 6.1 | | | |
| FM (30°-60°) | 4086.2 | 48.4 | | | |
| FH (60°-80°) | 2673.8 | 31.7 | | | G2/5000 |
| FVH (80°-90°) | 37.9 | 0.4 | | | G1/100 |
| BL (0°-30°) | 283.6 | 3.4 | B1/500 | | |
| BM (30°-60°) | 645.7 | 7.6 | B1/1000 | | |
| BH (60°-80°) | 198.2 | 2.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.9 | 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 III Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 982.4 | 982.4 | 982.4 | 982.4 | 982.4 | 982.4 | 982.4 | 982.4 | 982.4 | 982.4 |
| 2.5° | 979.0 | 985.8 | 984.1 | 982.4 | 981.8 | 982.9 | 983.5 | 982.9 | 982.9 | 982.9 |
| 5° | 960.3 | 965.9 | 965.9 | 969.9 | 975.6 | 982.4 | 987.5 | 988.6 | 989.7 | 991.4 |
| 7.5° | 924.6 | 929.1 | 932.5 | 945.6 | 959.7 | 977.8 | 993.1 | 1001.0 | 1002.2 | 1008.4 |
| 10° | 900.3 | 905.9 | 911.6 | 925.2 | 945.6 | 972.7 | 998.8 | 1018.0 | 1020.9 | 1035.6 |
| 12.5° | 899.1 | 904.8 | 912.1 | 926.9 | 950.7 | 979.5 | 1011.2 | 1039.0 | 1044.1 | 1065.6 |
| 15° | 911.0 | 917.8 | 924.6 | 942.7 | 968.2 | 1003.3 | 1037.3 | 1071.8 | 1076.9 | 1107.5 |
| 17.5° | 935.4 | 944.4 | 949.5 | 967.6 | 994.8 | 1033.9 | 1078.6 | 1118.2 | 1122.8 | 1158.4 |
| 20° | 983.5 | 994.2 | 995.9 | 1010.7 | 1037.3 | 1079.2 | 1132.4 | 1181.7 | 1187.3 | 1228.1 |
| 22.5° | 1083.1 | 1098.4 | 1084.8 | 1092.2 | 1116.0 | 1157.9 | 1215.6 | 1277.9 | 1285.8 | 1332.3 |
| 25° | 1258.7 | 1280.2 | 1245.1 | 1232.6 | 1242.8 | 1286.4 | 1358.9 | 1437.6 | 1446.6 | 1484.0 |
| 27.5° | 1603.5 | 1575.7 | 1522.5 | 1470.4 | 1439.8 | 1464.8 | 1546.3 | 1643.7 | 1655.0 | 1691.2 |
| 30° | 1982.3 | 1957.9 | 1886.0 | 1770.5 | 1698.0 | 1694.1 | 1769.4 | 1878.1 | 1891.1 | 1925.6 |
| 32.5° | 2361.6 | 2338.4 | 2260.3 | 2118.2 | 1992.5 | 1930.2 | 1982.3 | 2102.9 | 2109.7 | 2131.7 |
| 35° | 2734.7 | 2711.0 | 2632.8 | 2487.3 | 2332.7 | 2191.2 | 2181.0 | 2316.9 | 2319.2 | 2342.4 |
| 37.5° | 3110.1 | 3090.3 | 3007.1 | 2864.4 | 2712.1 | 2516.8 | 2422.2 | 2519.6 | 2522.4 | 2545.1 |
| 40° | 3378.0 | 3386.4 | 3329.3 | 3218.8 | 3088.1 | 2874.6 | 2692.8 | 2735.3 | 2718.3 | 2756.3 |
| 42.5° | 3607.8 | 3624.8 | 3575.0 | 3519.5 | 3443.6 | 3255.7 | 3028.0 | 3020.7 | 2993.5 | 3013.9 |
| 45° | 3806.6 | 3820.7 | 3776.0 | 3763.0 | 3761.3 | 3629.3 | 3394.4 | 3350.2 | 3312.3 | 3308.3 |
| 47.5° | 3879.6 | 3906.8 | 3926.0 | 3969.6 | 4054.6 | 3999.1 | 3773.2 | 3704.6 | 3662.2 | 3631.0 |
| 50° | 3907.3 | 3936.2 | 4001.9 | 4128.7 | 4329.7 | 4353.5 | 4150.2 | 4073.2 | 4021.2 | 3964.5 |
| 52.5° | 3870.0 | 3921.5 | 4009.8 | 4223.3 | 4514.9 | 4637.7 | 4512.1 | 4444.7 | 4385.2 | 4292.9 |
| 55° | 3649.7 | 3701.3 | 3881.9 | 4222.2 | 4607.2 | 4837.0 | 4854.0 | 4824.0 | 4757.2 | 4611.7 |
| 57.5° | 3185.4 | 3261.9 | 3547.8 | 4078.3 | 4605.5 | 5008.6 | 5189.2 | 5210.7 | 5136.0 | 4927.6 |
| 60° | 2542.2 | 2645.9 | 2994.6 | 3759.6 | 4463.4 | 5101.5 | 5483.1 | 5590.7 | 5511.4 | 5239.1 |
| 62.5° | 1773.9 | 1893.9 | 2224.0 | 3260.2 | 4138.4 | 5034.7 | 5697.7 | 5896.4 | 5836.4 | 5517.6 |
| 65° | 1082.0 | 1120.5 | 1386.6 | 2565.5 | 3585.7 | 4755.0 | 5763.9 | 6061.7 | 6041.9 | 5688.0 |
| 67.5° | 720.8 | 753.0 | 829.5 | 1759.2 | 2783.4 | 4196.1 | 5605.4 | 6032.9 | 6038.5 | 5660.3 |
| 70° | 434.3 | 462.0 | 511.8 | 1023.1 | 1803.9 | 3321.3 | 5114.5 | 5664.8 | 5697.7 | 5289.4 |
| 72.5° | 178.9 | 197.6 | 242.9 | 463.7 | 934.2 | 2108.0 | 4072.7 | 4863.7 | 4940.1 | 4447.5 |
| 75° | 101.3 | 111.0 | 142.7 | 232.7 | 405.4 | 982.4 | 2466.9 | 3452.7 | 3565.4 | 3065.4 |
| 77.5° | 67.4 | 71.9 | 92.3 | 150.6 | 228.2 | 335.2 | 1054.3 | 1798.8 | 2014.0 | 1674.3 |
| 80° | 45.3 | 49.3 | 63.4 | 100.8 | 148.3 | 143.8 | 335.8 | 666.4 | 819.9 | 575.3 |
| 82.5° | 30.6 | 31.1 | 45.3 | 66.2 | 94.0 | 69.6 | 99.1 | 207.2 | 260.5 | 166.5 |
| 85° | 17.6 | 17.0 | 33.4 | 38.5 | 41.9 | 28.9 | 30.0 | 62.3 | 81.5 | 70.2 |
| 87.5° | 2.3 | 3.4 | 13.0 | 10.2 | 5.7 | 6.2 | 6.2 | 10.8 | 15.9 | 17.0 |
| 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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CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| 982.4 | 0° | 982.4 | 982.4 | 982.4 | 982.4 | 982.4 | 982.4 | 982.4 | 982.4 | 982.4 | 982.4 |
| 983.5 | 2.5° | 983.5 | 982.9 | 981.2 | 979.5 | 975.6 | 973.3 | 974.4 | 973.3 | 972.7 | 973.3 |
| 990.9 | 5° | 990.9 | 989.2 | 984.6 | 979.0 | 971.0 | 961.4 | 955.2 | 946.1 | 937.6 | 932.5 |
| 1010.7 | 7.5° | 1010.7 | 1009.0 | 1002.7 | 986.9 | 961.4 | 921.2 | 884.4 | 852.1 | 827.8 | 813.6 |
| 1042.4 | 10° | 1042.4 | 1039.5 | 1029.9 | 994.8 | 928.0 | 840.2 | 767.2 | 706.6 | 667.0 | 648.3 |
| 1079.7 | 12.5° | 1079.7 | 1076.3 | 1059.4 | 987.5 | 864.6 | 727.6 | 626.8 | 559.4 | 522.6 | 506.2 |
| 1122.8 | 15° | 1123.9 | 1119.4 | 1086.0 | 952.3 | 772.3 | 603.0 | 510.7 | 460.3 | 436.5 | 421.8 |
| 1177.7 | 17.5° | 1178.8 | 1170.9 | 1105.8 | 899.7 | 672.1 | 507.9 | 439.4 | 401.4 | 380.5 | 366.3 |
| 1249.6 | 20° | 1250.2 | 1237.1 | 1121.6 | 836.8 | 579.8 | 447.9 | 391.2 | 359.5 | 343.7 | 331.2 |
| 1351.5 | 22.5° | 1349.8 | 1331.1 | 1140.9 | 768.9 | 514.7 | 406.5 | 355.6 | 332.4 | 319.3 | 305.2 |
| 1493.6 | 25° | 1473.3 | 1451.2 | 1164.7 | 706.1 | 469.9 | 370.9 | 329.5 | 310.3 | 295.0 | 278.6 |
| 1679.9 | 27.5° | 1645.9 | 1606.3 | 1193.0 | 654.5 | 431.4 | 340.3 | 305.7 | 284.2 | 266.7 | 253.1 |
| 1891.1 | 30° | 1838.5 | 1773.3 | 1217.9 | 623.4 | 396.3 | 312.0 | 274.6 | 253.1 | 236.7 | 227.0 |
| 2080.8 | 32.5° | 2020.8 | 1932.4 | 1234.3 | 609.8 | 364.6 | 279.7 | 240.6 | 217.4 | 205.0 | 202.1 |
| 2266.5 | 35° | 2192.9 | 2076.3 | 1232.6 | 596.8 | 336.3 | 247.4 | 207.2 | 183.4 | 173.8 | 175.5 |
| 2466.4 | 37.5° | 2391.1 | 2229.7 | 1220.7 | 576.4 | 313.1 | 218.0 | 178.4 | 157.4 | 148.9 | 149.5 |
| 2709.3 | 40° | 2621.5 | 2406.9 | 1213.4 | 537.9 | 287.6 | 190.8 | 154.6 | 137.6 | 131.4 | 129.1 |
| 2965.2 | 42.5° | 2867.2 | 2578.5 | 1214.5 | 494.3 | 255.9 | 166.5 | 138.2 | 124.0 | 118.3 | 116.6 |
| 3250.0 | 45° | 3114.1 | 2742.1 | 1216.2 | 449.0 | 222.5 | 147.8 | 126.3 | 114.4 | 111.0 | 108.7 |
| 3538.8 | 47.5° | 3346.2 | 2881.4 | 1184.5 | 400.3 | 189.7 | 133.6 | 116.6 | 108.7 | 105.9 | 103.0 |
| 3828.6 | 50° | 3562.5 | 2974.3 | 1108.1 | 343.7 | 163.6 | 122.3 | 109.3 | 103.6 | 100.8 | 98.0 |
| 4091.4 | 52.5° | 3730.7 | 2989.0 | 981.8 | 285.4 | 145.5 | 113.8 | 104.7 | 99.7 | 96.3 | 93.4 |
| 4303.7 | 55° | 3805.4 | 2896.7 | 802.3 | 231.0 | 131.4 | 106.4 | 100.2 | 95.1 | 91.2 | 88.3 |
| 4470.7 | 57.5° | 3786.2 | 2702.5 | 625.7 | 185.7 | 117.8 | 99.1 | 94.6 | 91.2 | 86.6 | 82.1 |
| 4606.0 | 60° | 3691.6 | 2442.6 | 471.6 | 154.6 | 105.3 | 91.2 | 88.3 | 85.5 | 79.3 | 72.5 |
| 4658.1 | 62.5° | 3528.0 | 2115.9 | 336.3 | 128.0 | 91.7 | 82.1 | 81.0 | 78.7 | 69.6 | 57.2 |
| 4581.1 | 65° | 3277.7 | 1719.0 | 226.5 | 106.4 | 78.7 | 71.9 | 72.5 | 68.5 | 56.6 | 42.5 |
| 4299.2 | 67.5° | 2912.0 | 1257.0 | 144.9 | 87.2 | 65.7 | 60.0 | 60.6 | 58.3 | 48.1 | 36.2 |
| 3764.7 | 70° | 2446.0 | 832.3 | 94.6 | 66.2 | 52.7 | 46.4 | 49.8 | 50.4 | 40.8 | 29.4 |
| 2889.3 | 72.5° | 1793.2 | 491.5 | 66.2 | 49.3 | 38.5 | 32.3 | 40.8 | 41.9 | 32.8 | 22.1 |
| 1738.2 | 75° | 1022.0 | 233.3 | 49.8 | 35.7 | 23.8 | 22.6 | 31.7 | 31.7 | 22.6 | 14.7 |
| 752.5 | 77.5° | 429.2 | 97.4 | 35.1 | 23.2 | 13.6 | 13.0 | 21.5 | 19.8 | 11.3 | 6.8 |
| 183.4 | 80° | 124.0 | 43.6 | 18.7 | 11.3 | 5.7 | 5.1 | 8.5 | 6.2 | 2.8 | 1.1 |
| 69.6 | 82.5° | 48.7 | 19.3 | 7.4 | 4.5 | 2.3 | 2.3 | 1.1 | 0.0 | 0.0 | 0.0 |
| 39.6 | 85° | 28.9 | 7.9 | 3.4 | 1.7 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 8.5 | 87.5° | 7.4 | 1.7 | 1.1 | 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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| |
|-------------|
| <u>180°</u> |
| 982.4 |
| 975.6 |
| 933.7 |
| 814.2 |
| 646.6 |
| 504.5 |
| 422.4 |
| 365.2 |
| 329.0 |
| 302.9 |
| 276.9 |
| 250.3 |
| 225.3 |
| 203.8 |
| 175.5 |
| 151.7 |
| 128.5 |
| 116.1 |
| 108.7 |
| 103.0 |
| 98.0 |
| 92.9 |
| 87.8 |
| 81.5 |
| 71.3 |
| 56.1 |
| 41.3 |
| 34.5 |
| 28.3 |
| 20.9 |
| 13.6 |
| 6.8 |
| 1.1 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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