

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: P953467

Luminaire Tested: **GALN-SB7A-735-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953467
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7A-735-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31708 lumens
Efficiency: N/A
Efficacy: 159.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

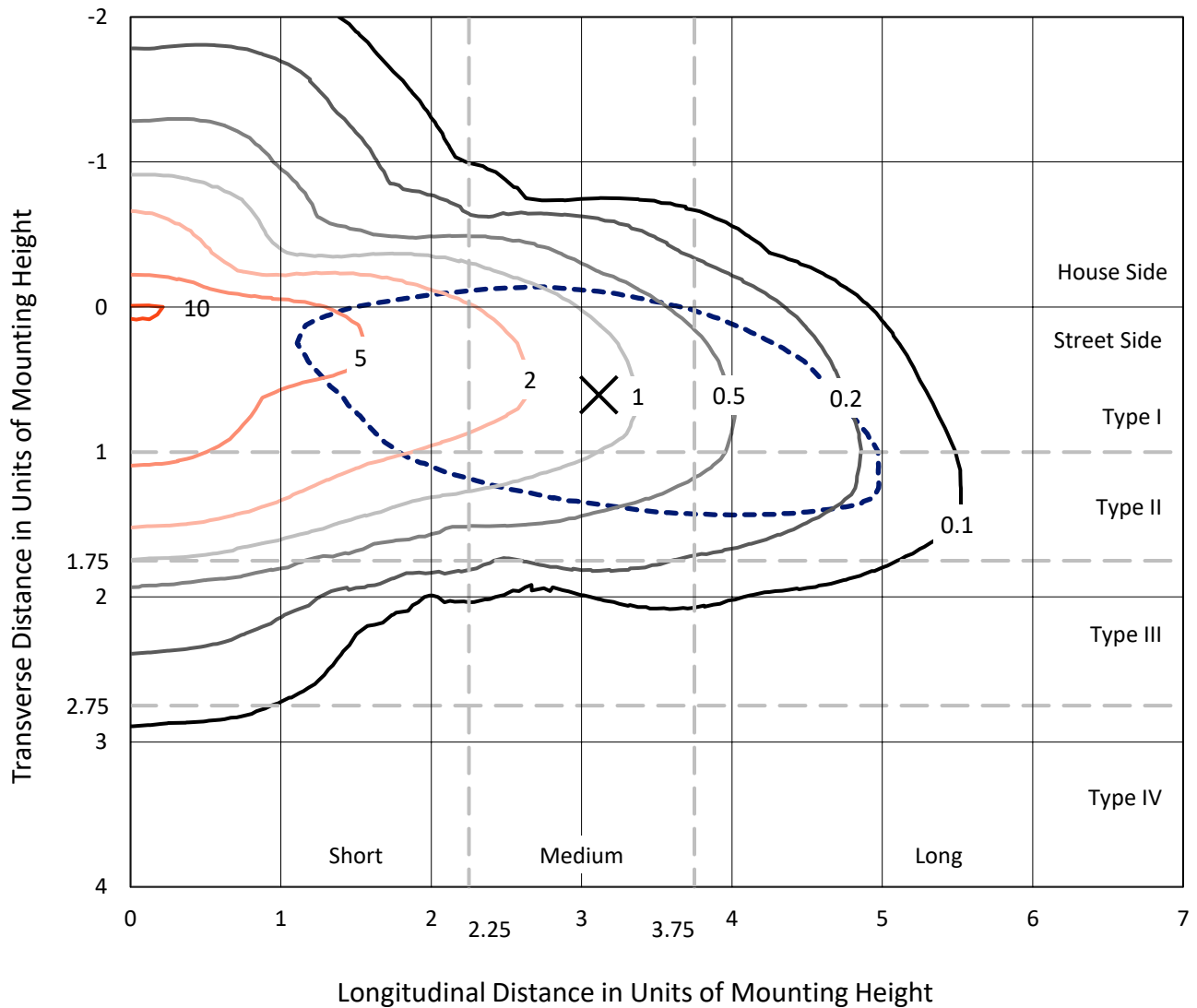
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

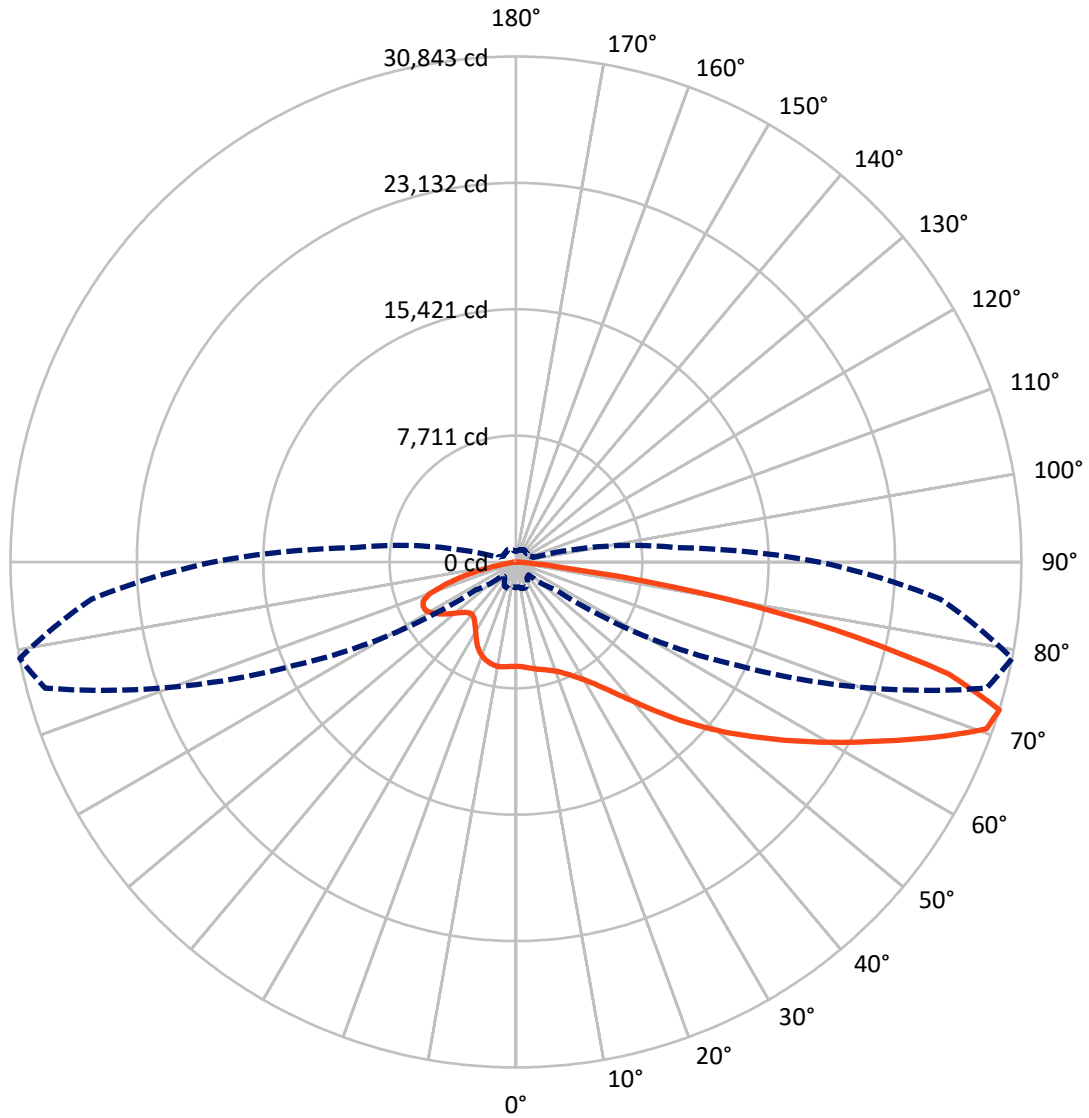
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6977.5 | 0.0 | 6977.5 |
| | % Fixture | 22.0 | 0.0 | 22.0 |
| Street Side | Lumens | 24730.5 | 0.0 | 24730.5 |
| | % Fixture | 78.0 | 0.0 | 78.0 |
| Total | Lumens | 31708.0 | 0.0 | 31708.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 577.8 | 1.8 |
| 10°-20° | 1510.6 | 4.8 |
| 20°-30° | 2437.4 | 7.7 |
| 30°-40° | 3658.3 | 11.5 |
| 40°-50° | 5189.4 | 16.4 |
| 50°-60° | 6553.6 | 20.7 |
| 60°-70° | 6656.0 | 21.0 |
| 70°-80° | 4536.4 | 14.3 |
| 80°-90° | 588.6 | 1.9 |
| 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° | 31708.0 | 100.0 |
| 0°-180° | 31708.0 | 100.0 |



REPORT NUMBER: P953467

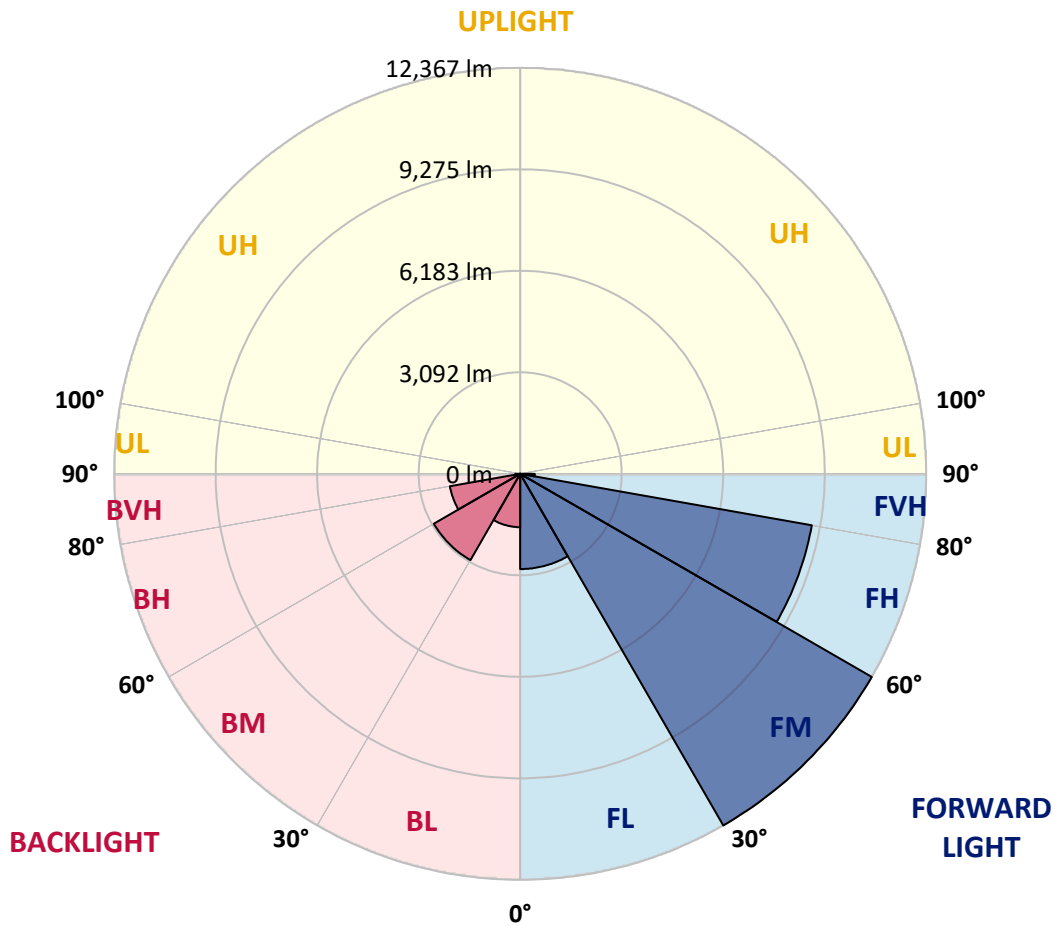
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2900.5 | 9.1 | | | |
| FM (30°-60°) | 12366.8 | 39.0 | | | |
| FH (60°-80°) | 9019.9 | 28.4 | | | G4/12000 |
| FVH (80°-90°) | 443.4 | 1.4 | | | G3/500 |
| BL (0°-30°) | 1625.3 | 5.1 | B3/2500 | | |
| BM (30°-60°) | 3034.5 | 9.6 | B3/5000 | | |
| BH (60°-80°) | 2172.6 | 6.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 145.2 | 0.5 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 79° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6365.1 | 6365.1 | 6365.1 | 6365.1 | 6365.1 | 6365.1 | 6365.1 | 6365.1 | 6365.1 | 6365.1 |
| 2.5° | 6368.4 | 6338.2 | 6356.7 | 6350.0 | 6358.4 | 6368.4 | 6371.8 | 6376.8 | 6393.6 | 6391.9 |
| 5° | 6355.0 | 6324.8 | 6350.0 | 6341.6 | 6363.4 | 6386.9 | 6407.0 | 6425.5 | 6452.3 | 6464.0 |
| 7.5° | 6326.5 | 6306.4 | 6331.5 | 6356.7 | 6396.9 | 6432.2 | 6460.7 | 6502.6 | 6541.2 | 6547.9 |
| 10° | 6160.5 | 6145.4 | 6204.1 | 6269.5 | 6380.2 | 6475.8 | 6537.8 | 6586.5 | 6628.4 | 6635.1 |
| 12.5° | 5987.7 | 5969.3 | 6034.7 | 6123.6 | 6303.0 | 6475.8 | 6606.6 | 6670.3 | 6707.2 | 6729.0 |
| 15° | 5959.2 | 5944.1 | 5981.0 | 6058.1 | 6207.4 | 6430.5 | 6653.6 | 6771.0 | 6802.8 | 6828.0 |
| 17.5° | 6096.7 | 6068.2 | 6083.3 | 6110.1 | 6197.4 | 6388.6 | 6690.5 | 6885.0 | 6933.7 | 6960.5 |
| 20° | 6415.4 | 6375.1 | 6351.7 | 6298.0 | 6282.9 | 6395.3 | 6687.1 | 7022.6 | 7086.3 | 7119.8 |
| 22.5° | 6839.7 | 6812.9 | 6762.6 | 6626.7 | 6479.1 | 6477.5 | 6750.8 | 7198.7 | 7317.7 | 7349.6 |
| 25° | 7353.0 | 7312.7 | 7249.0 | 7064.5 | 6781.0 | 6640.1 | 6858.2 | 7423.4 | 7623.0 | 7631.4 |
| 27.5° | 7943.4 | 7883.0 | 7795.8 | 7552.6 | 7170.1 | 6895.1 | 7022.6 | 7681.7 | 7973.5 | 7970.2 |
| 30° | 8565.6 | 8505.2 | 8413.0 | 8117.8 | 7636.4 | 7238.9 | 7250.7 | 7960.1 | 8389.5 | 8371.0 |
| 32.5° | 9020.1 | 8974.8 | 8956.4 | 8728.3 | 8173.1 | 7644.8 | 7512.3 | 8268.7 | 8902.7 | 8886.0 |
| 35° | 9369.0 | 9310.3 | 9332.1 | 9216.4 | 8758.5 | 8099.3 | 7832.7 | 8636.0 | 9526.7 | 9525.0 |
| 37.5° | 9714.5 | 9662.5 | 9681.0 | 9603.8 | 9300.2 | 8676.3 | 8223.4 | 9085.5 | 10299.9 | 10336.8 |
| 40° | 10029.8 | 9974.5 | 10048.3 | 9976.2 | 9721.2 | 9290.2 | 8667.9 | 9593.7 | 11195.5 | 11265.9 |
| 42.5° | 10219.3 | 10175.7 | 10298.2 | 10299.9 | 10086.8 | 9808.4 | 9156.0 | 10153.9 | 12232.0 | 12389.7 |
| 45° | 10284.8 | 10269.7 | 10454.2 | 10492.7 | 10410.6 | 10108.7 | 9595.4 | 10764.4 | 13349.1 | 13630.8 |
| 47.5° | 10214.3 | 10185.8 | 10440.7 | 10583.3 | 10648.7 | 10249.5 | 9959.4 | 11425.3 | 14489.6 | 14902.2 |
| 50° | 9858.7 | 9803.4 | 10182.5 | 10482.7 | 10715.8 | 10341.8 | 10326.7 | 12188.4 | 15786.1 | 16237.2 |
| 52.5° | 9219.7 | 9177.8 | 9608.8 | 10130.5 | 10568.2 | 10387.1 | 10739.3 | 13022.0 | 17017.2 | 17600.8 |
| 55° | 8402.9 | 8347.6 | 8822.2 | 9503.2 | 10200.9 | 10372.0 | 11151.9 | 13954.5 | 18469.6 | 19061.7 |
| 57.5° | 7108.1 | 6997.4 | 7597.8 | 8402.9 | 9602.1 | 10353.5 | 11581.3 | 14882.0 | 19945.6 | 20655.1 |
| 60° | 5219.5 | 5055.2 | 5791.5 | 6745.8 | 8431.4 | 10174.1 | 12112.9 | 15921.9 | 21716.7 | 22355.8 |
| 62.5° | 3039.1 | 2943.5 | 3424.9 | 4315.5 | 6355.0 | 9117.4 | 12411.5 | 17131.2 | 23457.7 | 24128.6 |
| 65° | 2359.9 | 2333.0 | 2375.0 | 2443.7 | 3537.3 | 6826.3 | 11490.7 | 18310.3 | 25671.6 | 26141.3 |
| 67.5° | 2158.6 | 2138.5 | 2156.9 | 2027.8 | 1794.6 | 3802.3 | 9090.6 | 18608.8 | 28043.2 | 28328.4 |
| 70° | 1918.7 | 1895.3 | 1955.6 | 1845.0 | 1412.2 | 1729.2 | 5873.7 | 17525.4 | 29930.1 | 30465.2 |
| 72.5° | 1563.2 | 1536.3 | 1677.2 | 1626.9 | 1189.2 | 1110.3 | 2950.2 | 14950.8 | 29732.2 | 30842.5 |
| 75° | 1200.9 | 1185.8 | 1353.5 | 1395.5 | 969.4 | 873.8 | 1415.6 | 11113.3 | 26164.8 | 27283.5 |
| 77.5° | 932.5 | 920.8 | 1006.3 | 1159.0 | 781.6 | 677.6 | 870.5 | 7049.4 | 19717.5 | 19913.7 |
| 80° | 699.4 | 665.9 | 744.7 | 897.3 | 608.8 | 494.8 | 590.4 | 4110.9 | 12463.5 | 11297.8 |
| 82.5° | 437.8 | 421.0 | 486.4 | 598.8 | 429.4 | 340.5 | 384.1 | 2271.0 | 4994.8 | 2941.9 |
| 85° | 249.9 | 243.2 | 265.0 | 342.2 | 233.1 | 196.2 | 219.7 | 1003.0 | 912.4 | 627.3 |
| 87.5° | 100.6 | 97.3 | 120.8 | 152.6 | 85.5 | 72.1 | 77.2 | 241.5 | 201.3 | 186.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P953467
 CATALOG NUMBER: GALN-SB7A-735-U-SL2

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 6365.1 | 0° | 6365.1 | 6365.1 | 6365.1 | 6365.1 | 6365.1 | 6365.1 | 6365.1 | 6365.1 | 6365.1 | 6365.1 |
| 6390.2 | 2.5° | 6383.5 | 6383.5 | 6360.0 | 6323.1 | 6281.2 | 6254.4 | 6210.8 | 6199.0 | 6153.7 | 6140.3 |
| 6447.3 | 5° | 6460.7 | 6447.3 | 6375.1 | 6271.2 | 6128.6 | 5997.8 | 5853.5 | 5763.0 | 5635.5 | 5590.2 |
| 6559.6 | 7.5° | 6558.0 | 6521.1 | 6396.9 | 6168.8 | 5870.3 | 5576.8 | 5271.5 | 5040.1 | 4818.7 | 4739.8 |
| 6651.9 | 10° | 6646.9 | 6594.9 | 6383.5 | 5984.3 | 5467.8 | 4959.6 | 4473.2 | 4132.7 | 3874.4 | 3768.7 |
| 6754.2 | 12.5° | 6735.7 | 6640.1 | 6294.6 | 5677.4 | 4895.8 | 4206.5 | 3688.2 | 3423.2 | 3263.9 | 3136.4 |
| 6838.1 | 15° | 6819.6 | 6685.4 | 6157.1 | 5266.5 | 4268.5 | 3569.1 | 3186.7 | 2975.4 | 2847.9 | 2764.1 |
| 6960.5 | 17.5° | 6916.9 | 6724.0 | 5950.8 | 4744.9 | 3671.5 | 3128.0 | 2816.1 | 2688.6 | 2663.4 | 2653.4 |
| 7128.2 | 20° | 7052.7 | 6759.2 | 5679.1 | 4161.2 | 3232.0 | 2775.8 | 2614.8 | 2603.1 | 2601.4 | 2596.3 |
| 7329.5 | 22.5° | 7198.7 | 6801.2 | 5320.2 | 3631.2 | 2858.0 | 2556.1 | 2527.6 | 2504.1 | 2489.0 | 2487.3 |
| 7572.7 | 25° | 7371.4 | 6814.6 | 4870.7 | 3196.8 | 2539.3 | 2452.1 | 2418.6 | 2383.3 | 2373.3 | 2373.3 |
| 7849.4 | 27.5° | 7539.1 | 6769.3 | 4347.4 | 2819.4 | 2359.9 | 2356.5 | 2312.9 | 2301.2 | 2299.5 | 2304.5 |
| 8164.7 | 30° | 7706.9 | 6683.8 | 3827.4 | 2470.6 | 2255.9 | 2255.9 | 2240.8 | 2249.2 | 2255.9 | 2272.6 |
| 8597.5 | 32.5° | 7933.3 | 6593.2 | 3393.0 | 2212.3 | 2165.3 | 2148.5 | 2163.6 | 2180.4 | 2187.1 | 2208.9 |
| 9166.0 | 35° | 8265.4 | 6529.4 | 3047.5 | 2071.4 | 2071.4 | 2049.6 | 2058.0 | 2054.6 | 2039.5 | 2029.4 |
| 9853.7 | 37.5° | 8704.8 | 6526.1 | 2762.4 | 2006.0 | 1992.5 | 1989.2 | 1990.9 | 1969.1 | 1910.4 | 1839.9 |
| 10685.6 | 40° | 9233.1 | 6616.7 | 2542.7 | 1960.7 | 1950.6 | 1970.7 | 1960.7 | 1902.0 | 1741.0 | 1618.5 |
| 11708.7 | 42.5° | 9942.6 | 6875.0 | 2401.8 | 1905.3 | 1935.5 | 1960.7 | 1920.4 | 1717.5 | 1608.5 | 1526.3 |
| 12874.4 | 45° | 10777.9 | 7294.3 | 2329.7 | 1846.6 | 1907.0 | 1937.2 | 1742.6 | 1653.7 | 1566.5 | 1467.6 |
| 14145.7 | 47.5° | 11723.8 | 7822.6 | 2312.9 | 1791.3 | 1843.3 | 1861.7 | 1667.2 | 1626.9 | 1528.0 | 1420.6 |
| 15423.8 | 50° | 12753.6 | 8448.2 | 2358.2 | 1725.9 | 1751.0 | 1687.3 | 1642.0 | 1605.1 | 1502.8 | 1397.1 |
| 16733.7 | 52.5° | 13818.7 | 9137.5 | 2448.8 | 1637.0 | 1658.8 | 1588.3 | 1631.9 | 1600.1 | 1487.7 | 1345.1 |
| 18087.2 | 55° | 14865.3 | 9831.9 | 2536.0 | 1533.0 | 1564.9 | 1499.4 | 1603.4 | 1579.9 | 1418.9 | 1257.9 |
| 19531.3 | 57.5° | 15928.6 | 10522.9 | 2621.5 | 1440.7 | 1474.3 | 1413.9 | 1558.1 | 1526.3 | 1341.8 | 1177.4 |
| 21107.9 | 60° | 17033.9 | 11193.8 | 2661.8 | 1351.8 | 1375.3 | 1335.1 | 1489.4 | 1434.0 | 1254.6 | 1095.2 |
| 22657.7 | 62.5° | 18068.8 | 11752.3 | 2596.3 | 1263.0 | 1278.0 | 1261.3 | 1398.8 | 1325.0 | 1167.4 | 1003.0 |
| 24272.8 | 65° | 19107.0 | 12084.4 | 2395.1 | 1175.7 | 1179.1 | 1170.7 | 1271.3 | 1207.6 | 1065.0 | 922.5 |
| 25686.7 | 67.5° | 20047.9 | 12270.6 | 2074.7 | 1081.8 | 1073.4 | 1070.1 | 1152.3 | 1080.1 | 966.1 | 842.0 |
| 26761.8 | 70° | 20247.5 | 11797.6 | 1585.0 | 971.1 | 971.1 | 962.7 | 1021.4 | 947.6 | 857.1 | 756.4 |
| 25992.0 | 72.5° | 18493.1 | 9924.2 | 1125.4 | 845.3 | 858.7 | 842.0 | 890.6 | 828.6 | 746.4 | 679.3 |
| 22401.1 | 75° | 14912.2 | 7277.5 | 818.5 | 716.2 | 739.7 | 711.1 | 756.4 | 712.8 | 642.4 | 640.7 |
| 15437.2 | 77.5° | 10246.2 | 4500.0 | 593.7 | 590.4 | 607.2 | 570.3 | 622.3 | 598.8 | 535.0 | 506.5 |
| 6719.0 | 80° | 4372.5 | 1794.6 | 432.7 | 456.2 | 456.2 | 422.7 | 483.0 | 489.8 | 434.4 | 421.0 |
| 1296.5 | 82.5° | 870.5 | 509.9 | 303.6 | 313.6 | 295.2 | 285.1 | 342.2 | 379.1 | 523.3 | 582.0 |
| 390.8 | 85° | 261.6 | 187.8 | 182.8 | 171.1 | 151.0 | 152.6 | 201.3 | 380.7 | 469.6 | 268.4 |
| 129.1 | 87.5° | 72.1 | 47.0 | 48.6 | 38.6 | 31.9 | 41.9 | 68.8 | 288.5 | 157.7 | 67.1 |
| 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> |
|-------------|
| 6365.1 |
| 6162.1 |
| 5623.7 |
| 4749.9 |
| 3792.2 |
| 3178.3 |
| 2779.2 |
| 2660.1 |
| 2613.1 |
| 2505.8 |
| 2383.3 |
| 2317.9 |
| 2284.4 |
| 2227.4 |
| 2052.9 |
| 1841.6 |
| 1615.2 |
| 1522.9 |
| 1460.9 |
| 1412.2 |
| 1385.4 |
| 1335.1 |
| 1249.5 |
| 1174.1 |
| 1090.2 |
| 1001.3 |
| 912.4 |
| 831.9 |
| 753.1 |
| 659.2 |
| 577.0 |
| 474.7 |
| 421.0 |
| 583.7 |
| 231.5 |
| 57.0 |
| 0.0 |

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