

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: P957432

Luminaire Tested: **GALN-SB9D-750-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957432
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9D-750-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 83608 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

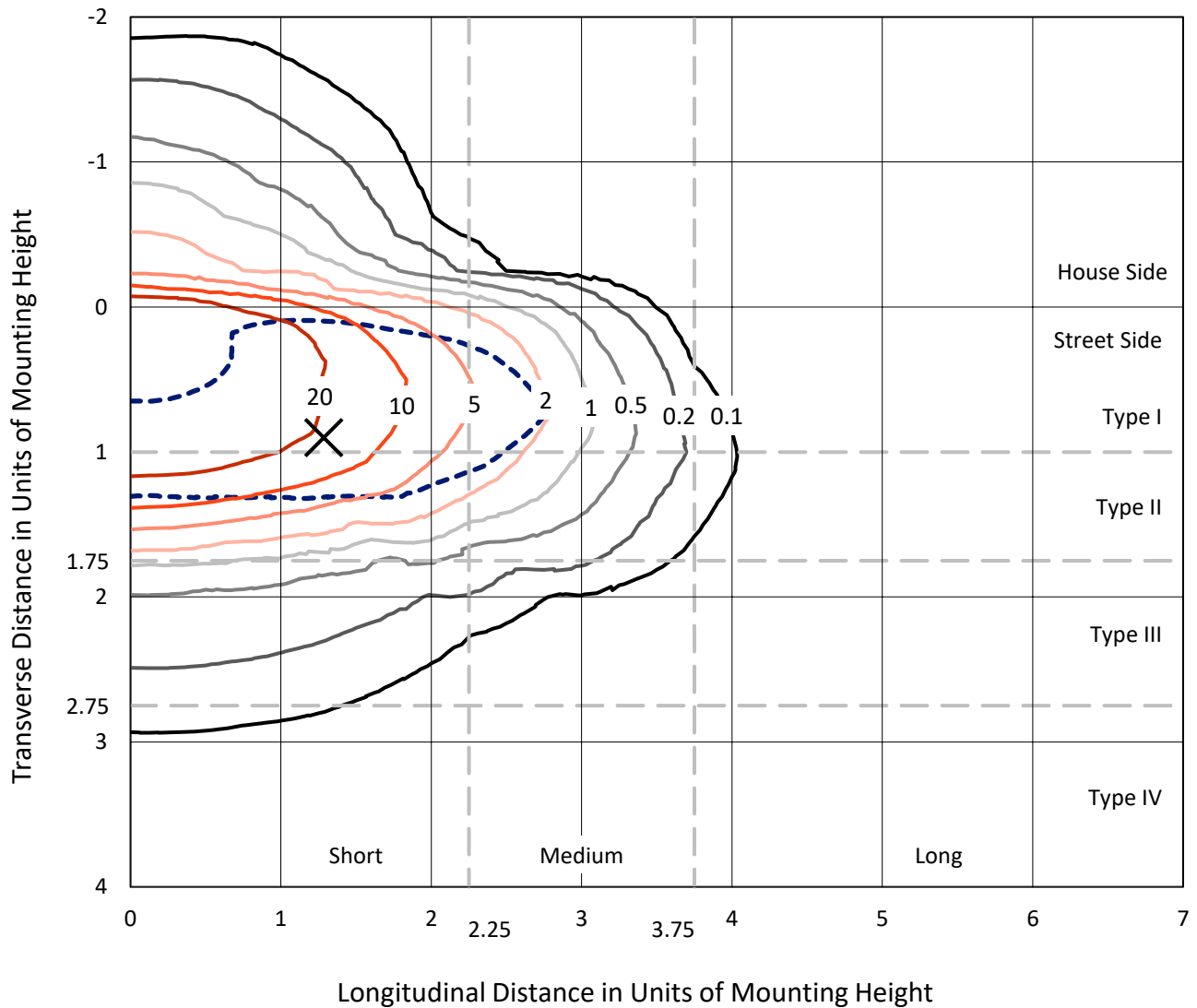
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

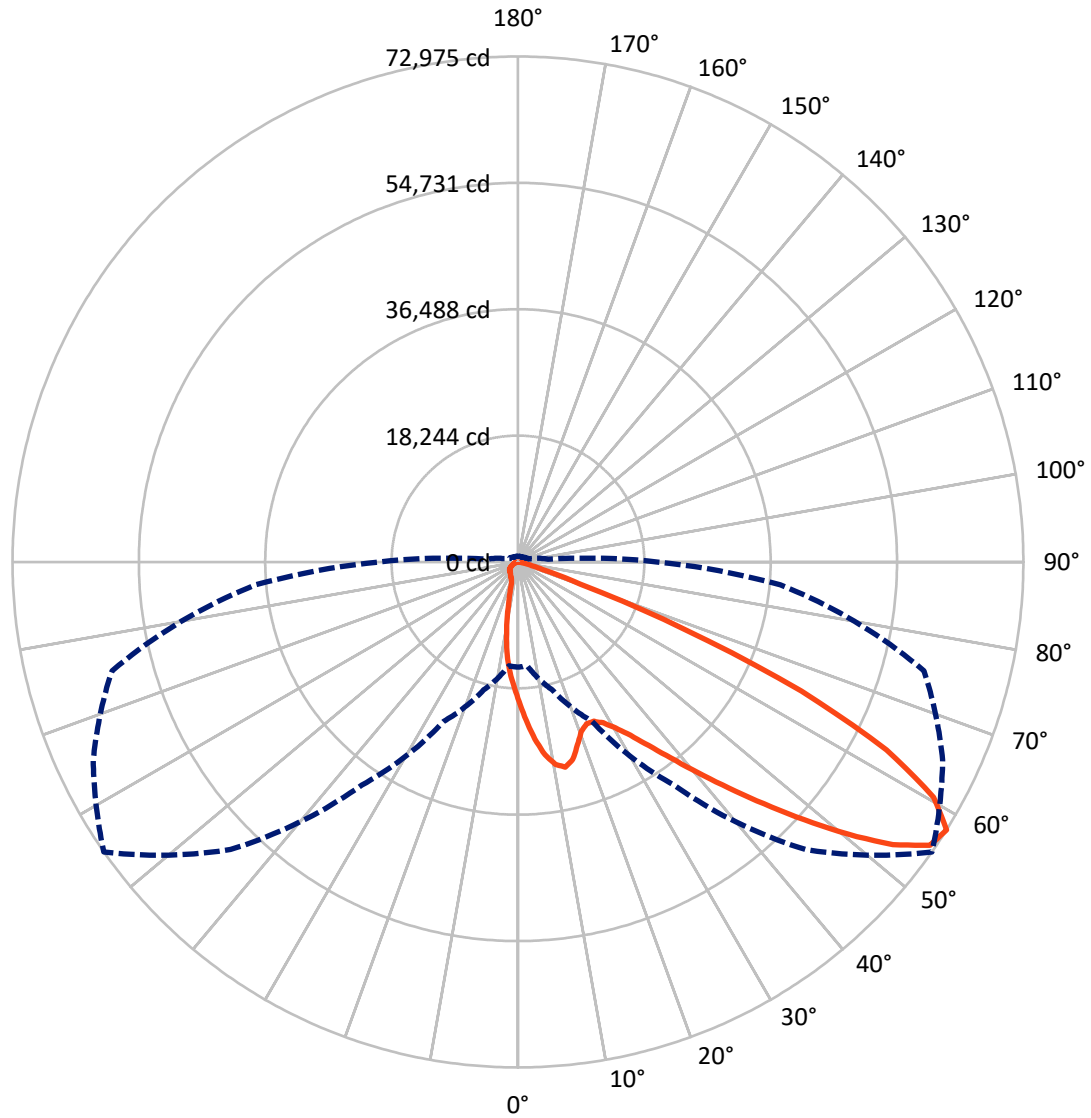
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 46.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6529.5 | 0.0 | 6529.5 |
| | % Fixture | 7.8 | 0.0 | 7.8 |
| Street Side | Lumens | 77078.6 | 0.0 | 77078.6 |
| | % Fixture | 92.2 | 0.0 | 92.2 |
| Total | Lumens | 83608.0 | 0.0 | 83608.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1874.6 | 2.2 |
| 10°-20° | 4528.1 | 5.4 |
| 20°-30° | 7244.9 | 8.7 |
| 30°-40° | 12262.5 | 14.7 |
| 40°-50° | 20132.4 | 24.1 |
| 50°-60° | 22127.0 | 26.5 |
| 60°-70° | 12692.0 | 15.2 |
| 70°-80° | 2593.4 | 3.1 |
| 80°-90° | 153.0 | 0.2 |
| 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° | 83608.0 | 100.0 |
| 0°-180° | 83608.0 | 100.0 |

Coefficient of Utilization



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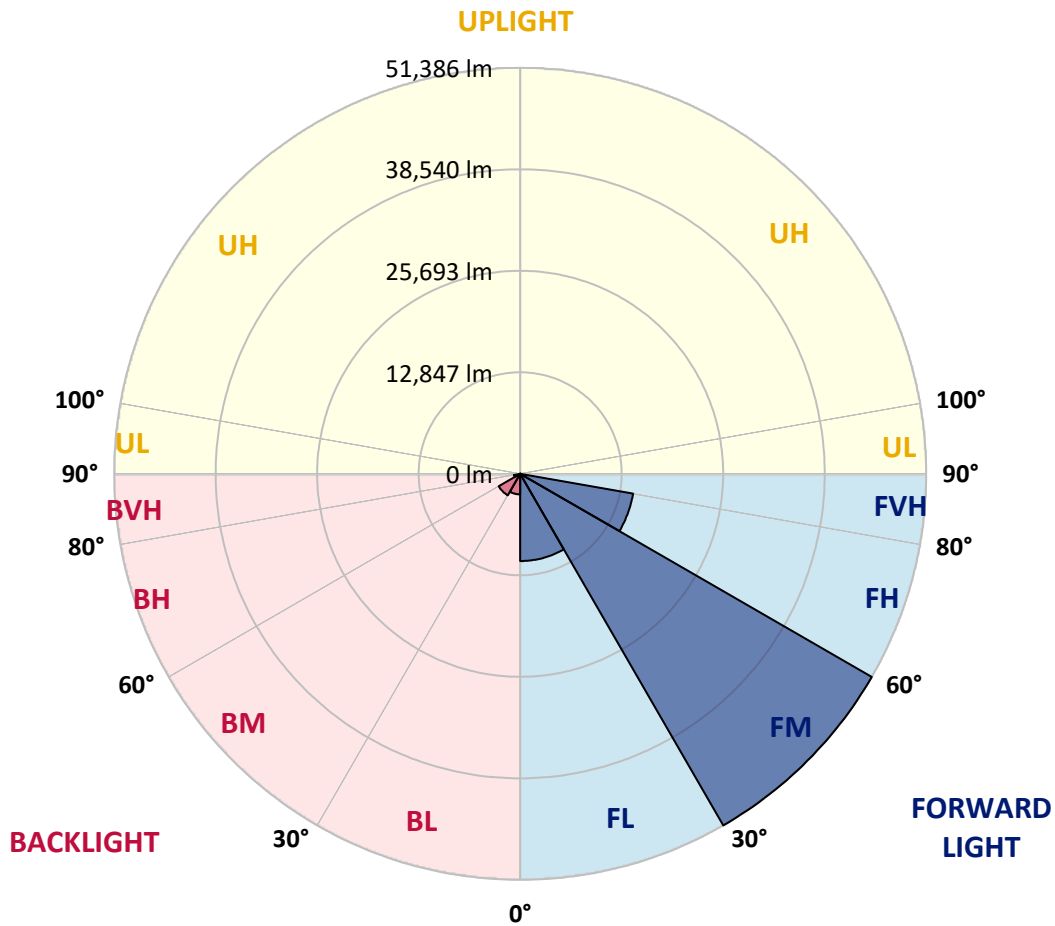
CATALOG NUMBER: GALN-SB9D-750-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 11041.0 | 13.2 | | | |
| FM (30°-60°) | 51386.1 | 61.5 | | | |
| FH (60°-80°) | 14508.9 | 17.4 | | | G5 |
| FVH (80°-90°) | 142.7 | 0.2 | | | G2/225 |
| BL (0°-30°) | 2606.7 | 3.1 | B4/5000 | | |
| BM (30°-60°) | 3135.9 | 3.8 | B3/5000 | | |
| BH (60°-80°) | 776.5 | 0.9 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 10.3 | 0.0 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type II Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 20147.5 | 20147.5 | 20147.5 | 20147.5 | 20147.5 | 20147.5 | 20147.5 | 20147.5 | 20147.5 | 20147.5 |
| 2.5° | 24998.7 | 24684.3 | 24637.9 | 24576.0 | 23978.0 | 23529.4 | 22879.9 | 22168.4 | 21369.3 | 20554.7 |
| 5° | 28880.8 | 28633.3 | 28586.9 | 28298.2 | 27617.7 | 26854.7 | 25699.9 | 24240.9 | 22751.0 | 20998.1 |
| 7.5° | 29633.5 | 29587.1 | 29798.5 | 29788.1 | 29695.3 | 29092.2 | 28117.8 | 26380.4 | 24142.9 | 21544.6 |
| 10° | 26277.3 | 26395.9 | 27024.8 | 27576.5 | 29066.4 | 29932.5 | 29721.1 | 28287.9 | 25576.1 | 22168.4 |
| 12.5° | 23220.1 | 23080.9 | 23529.4 | 24153.2 | 25885.5 | 28463.2 | 30386.2 | 29880.9 | 27215.6 | 22874.7 |
| 15° | 21302.3 | 21245.6 | 21498.2 | 21786.9 | 23106.7 | 25705.0 | 29612.9 | 31175.0 | 28793.1 | 23709.9 |
| 17.5° | 20688.8 | 20642.4 | 20719.7 | 20791.9 | 21647.7 | 23658.3 | 27772.4 | 31968.9 | 30303.7 | 24663.6 |
| 20° | 21188.9 | 21127.0 | 21116.7 | 21060.0 | 21415.7 | 22787.1 | 26107.2 | 32025.6 | 31659.6 | 25529.7 |
| 22.5° | 22647.9 | 22575.7 | 22323.1 | 22096.2 | 22127.2 | 22905.6 | 25364.8 | 31458.5 | 32680.3 | 26339.2 |
| 25° | 25292.6 | 25174.0 | 24648.2 | 23885.2 | 23400.6 | 23730.5 | 25478.2 | 30711.0 | 33654.7 | 26973.3 |
| 27.5° | 28602.4 | 28447.7 | 27772.4 | 26638.2 | 25529.7 | 25127.6 | 26297.9 | 30195.4 | 34464.1 | 27457.9 |
| 30° | 31845.2 | 31644.1 | 30979.1 | 30097.5 | 28478.7 | 27210.4 | 27777.5 | 30422.3 | 35428.2 | 27963.1 |
| 32.5° | 35345.7 | 35155.0 | 34273.4 | 33180.4 | 31840.0 | 30133.6 | 29803.6 | 31530.7 | 36608.8 | 28669.4 |
| 35° | 39774.2 | 39475.2 | 38222.4 | 36732.5 | 35309.6 | 33582.5 | 32546.3 | 33443.4 | 38181.2 | 29746.9 |
| 37.5° | 44816.3 | 44414.1 | 43063.4 | 41006.4 | 39150.4 | 37217.1 | 35887.0 | 36072.6 | 40485.7 | 31190.4 |
| 40° | 49569.6 | 49203.5 | 47955.9 | 46017.5 | 43687.2 | 41341.5 | 39923.7 | 39511.3 | 43666.6 | 32948.4 |
| 42.5° | 52420.5 | 52090.6 | 51564.7 | 50745.0 | 48780.8 | 46388.7 | 44599.7 | 43707.8 | 47430.1 | 35051.9 |
| 45° | 52580.4 | 52291.6 | 52997.9 | 53951.7 | 53565.0 | 51972.0 | 49791.3 | 48157.0 | 51209.0 | 37026.4 |
| 47.5° | 50023.3 | 49827.3 | 51972.0 | 55302.4 | 56962.5 | 57632.7 | 55622.1 | 52234.9 | 54328.0 | 38444.1 |
| 50° | 43053.1 | 42980.9 | 47394.0 | 53508.3 | 58256.5 | 62592.2 | 61772.5 | 56029.3 | 56746.0 | 39176.2 |
| 52.5° | 37330.6 | 37067.6 | 39640.2 | 47765.2 | 56374.8 | 65200.9 | 67783.8 | 59751.6 | 58436.9 | 39315.4 |
| 55° | 28313.7 | 28081.7 | 31309.0 | 38155.4 | 50306.8 | 64272.9 | 72181.3 | 63592.4 | 59648.5 | 38959.7 |
| 57.5° | 15187.9 | 15043.6 | 19121.5 | 25395.7 | 39325.7 | 58705.0 | 72975.3 | 67654.9 | 60669.2 | 38016.2 |
| 60° | 5913.3 | 5887.5 | 7413.5 | 12321.5 | 23900.6 | 47760.0 | 68969.5 | 70093.4 | 61308.5 | 36856.3 |
| 62.5° | 3577.9 | 3655.2 | 3902.7 | 5531.8 | 10558.3 | 29669.6 | 59736.1 | 67319.8 | 61736.4 | 35794.2 |
| 65° | 2959.2 | 2964.4 | 2995.3 | 3799.6 | 5057.5 | 12414.3 | 44970.9 | 58194.6 | 60679.6 | 33902.2 |
| 67.5° | 2536.5 | 2582.9 | 2701.5 | 3015.9 | 3567.6 | 5444.1 | 25890.6 | 45079.2 | 54250.7 | 29499.4 |
| 70° | 2000.3 | 2062.2 | 2211.7 | 2479.8 | 2753.0 | 3407.7 | 9568.5 | 29994.4 | 41444.6 | 22235.4 |
| 72.5° | 1685.8 | 1680.7 | 1758.0 | 2015.8 | 2185.9 | 2397.3 | 3681.0 | 16806.7 | 24086.2 | 10615.1 |
| 75° | 1304.3 | 1355.9 | 1453.8 | 1685.8 | 1788.9 | 1737.4 | 1995.2 | 6140.1 | 8630.2 | 3217.0 |
| 77.5° | 1020.8 | 1062.0 | 1149.7 | 1376.5 | 1479.6 | 1232.2 | 1149.7 | 2196.2 | 2773.6 | 1154.8 |
| 80° | 458.8 | 494.9 | 783.6 | 1015.6 | 1206.4 | 850.6 | 623.8 | 1123.9 | 1232.2 | 525.9 |
| 82.5° | 82.5 | 139.2 | 458.8 | 536.2 | 618.7 | 551.6 | 324.8 | 582.6 | 603.2 | 211.4 |
| 85° | 5.2 | 10.3 | 159.8 | 195.9 | 247.5 | 180.4 | 98.0 | 232.0 | 201.1 | 72.2 |
| 87.5° | 0.0 | 0.0 | 0.0 | 5.2 | 5.2 | 25.8 | 30.9 | 41.2 | 30.9 | 25.8 |
| 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):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 20147.5 | 0° | 20147.5 | 20147.5 | 20147.5 | 20147.5 | 20147.5 | 20147.5 | 20147.5 | 20147.5 | 20147.5 | 20147.5 |
| 20193.9 | 2.5° | 19822.7 | 19090.6 | 18379.2 | 17796.6 | 17456.3 | 16878.9 | 16497.4 | 16435.5 | 16275.7 | 16414.9 |
| 20245.4 | 5° | 19441.2 | 18131.7 | 16806.7 | 15621.0 | 14646.6 | 13388.7 | 12450.4 | 12053.4 | 11708.0 | 11826.6 |
| 20379.5 | 7.5° | 19260.7 | 17193.4 | 15131.2 | 13105.1 | 11022.3 | 9011.7 | 7516.6 | 6892.8 | 6418.5 | 6485.5 |
| 20529.0 | 10° | 19018.4 | 16219.0 | 12986.6 | 9893.3 | 7104.2 | 5119.4 | 4088.3 | 3706.8 | 3495.4 | 3500.5 |
| 20750.7 | 12.5° | 18832.8 | 15053.9 | 10496.5 | 6707.2 | 4325.4 | 3268.6 | 2948.9 | 2856.1 | 2794.2 | 2799.4 |
| 21085.8 | 15° | 18740.0 | 13682.5 | 8037.3 | 4469.8 | 3093.3 | 2768.5 | 2691.1 | 2649.9 | 2608.7 | 2603.5 |
| 21456.9 | 17.5° | 18585.4 | 12156.5 | 5882.4 | 3263.4 | 2706.6 | 2593.2 | 2526.2 | 2479.8 | 2428.2 | 2417.9 |
| 21776.6 | 20° | 18353.4 | 10424.3 | 4299.6 | 2758.2 | 2536.5 | 2448.8 | 2356.0 | 2294.2 | 2232.3 | 2222.0 |
| 21977.6 | 22.5° | 17925.5 | 8594.1 | 3304.6 | 2551.9 | 2412.7 | 2314.8 | 2201.4 | 2129.2 | 2067.3 | 2057.0 |
| 21879.7 | 25° | 17131.5 | 6877.4 | 2783.9 | 2423.1 | 2304.5 | 2185.9 | 2062.2 | 1964.2 | 1907.5 | 1897.2 |
| 21668.3 | 27.5° | 16126.2 | 5402.9 | 2526.2 | 2304.5 | 2165.3 | 2057.0 | 1917.8 | 1825.0 | 1773.5 | 1763.2 |
| 21389.9 | 30° | 14940.5 | 4160.4 | 2376.7 | 2170.4 | 2000.3 | 1907.5 | 1783.8 | 1706.5 | 1675.5 | 1675.5 |
| 21194.0 | 32.5° | 13661.9 | 3325.3 | 2314.8 | 2036.4 | 1856.0 | 1752.9 | 1654.9 | 1624.0 | 1613.7 | 1608.5 |
| 21302.3 | 35° | 12460.7 | 2887.0 | 2283.9 | 1928.1 | 1727.1 | 1629.1 | 1587.9 | 1593.0 | 1613.7 | 1613.7 |
| 21637.4 | 37.5° | 11393.5 | 2747.9 | 2268.4 | 1850.8 | 1613.7 | 1526.0 | 1551.8 | 1598.2 | 1577.6 | 1577.6 |
| 22225.1 | 40° | 10429.5 | 2763.3 | 2258.1 | 1794.1 | 1520.9 | 1469.3 | 1520.9 | 1484.8 | 1433.2 | 1428.1 |
| 22941.7 | 42.5° | 9692.2 | 2892.2 | 2237.5 | 1747.7 | 1464.1 | 1428.1 | 1407.4 | 1350.7 | 1345.6 | 1355.9 |
| 23684.1 | 45° | 9156.1 | 3005.6 | 2232.3 | 1727.1 | 1402.3 | 1335.3 | 1309.5 | 1252.8 | 1355.9 | 1381.7 |
| 23988.3 | 47.5° | 8521.9 | 3005.6 | 2232.3 | 1654.9 | 1299.2 | 1273.4 | 1232.2 | 1170.3 | 1273.4 | 1299.2 |
| 23699.6 | 50° | 7702.2 | 2814.9 | 2144.7 | 1572.4 | 1216.7 | 1201.2 | 1129.0 | 1051.7 | 1031.1 | 1046.6 |
| 23024.2 | 52.5° | 6666.0 | 2469.5 | 1923.0 | 1459.0 | 1134.2 | 1103.3 | 1015.6 | 958.9 | 943.4 | 943.4 |
| 21812.7 | 55° | 5485.4 | 2067.3 | 1624.0 | 1294.0 | 1046.6 | 989.8 | 928.0 | 902.2 | 886.7 | 876.4 |
| 20116.5 | 57.5° | 4459.5 | 1696.1 | 1304.3 | 1149.7 | 964.1 | 891.9 | 871.3 | 840.3 | 814.6 | 799.1 |
| 18698.8 | 60° | 3660.4 | 1335.3 | 1077.5 | 1020.8 | 881.6 | 814.6 | 809.4 | 768.2 | 701.1 | 690.8 |
| 17528.5 | 62.5° | 2825.2 | 979.5 | 907.4 | 886.7 | 799.1 | 742.4 | 732.1 | 649.6 | 546.5 | 525.9 |
| 15868.5 | 65° | 1995.2 | 763.0 | 732.1 | 778.5 | 711.5 | 659.9 | 634.1 | 510.4 | 402.1 | 386.7 |
| 13280.4 | 67.5° | 1402.3 | 639.3 | 577.4 | 680.5 | 618.7 | 551.6 | 536.2 | 433.1 | 335.1 | 324.8 |
| 10042.8 | 70° | 1000.2 | 520.7 | 474.3 | 582.6 | 494.9 | 484.6 | 453.7 | 360.9 | 273.2 | 262.9 |
| 4969.8 | 72.5° | 706.3 | 397.0 | 366.0 | 505.2 | 340.3 | 417.6 | 371.2 | 278.4 | 206.2 | 195.9 |
| 1691.0 | 75° | 520.7 | 283.5 | 257.8 | 293.9 | 247.5 | 314.5 | 262.9 | 185.6 | 128.9 | 123.7 |
| 763.0 | 77.5° | 381.5 | 180.4 | 154.7 | 144.4 | 144.4 | 195.9 | 144.4 | 77.3 | 56.7 | 51.6 |
| 386.7 | 80° | 268.1 | 82.5 | 72.2 | 61.9 | 56.7 | 46.4 | 20.6 | 10.3 | 5.2 | 5.2 |
| 134.0 | 82.5° | 159.8 | 36.1 | 36.1 | 25.8 | 15.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 51.6 | 85° | 36.1 | 15.5 | 15.5 | 5.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 20.6 | 87.5° | 5.2 | 5.2 | 0.0 | 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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