

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: P957621

Luminaire Tested: **GALN-SB9D-935-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957621
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-935-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 3500K, 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: 54975 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

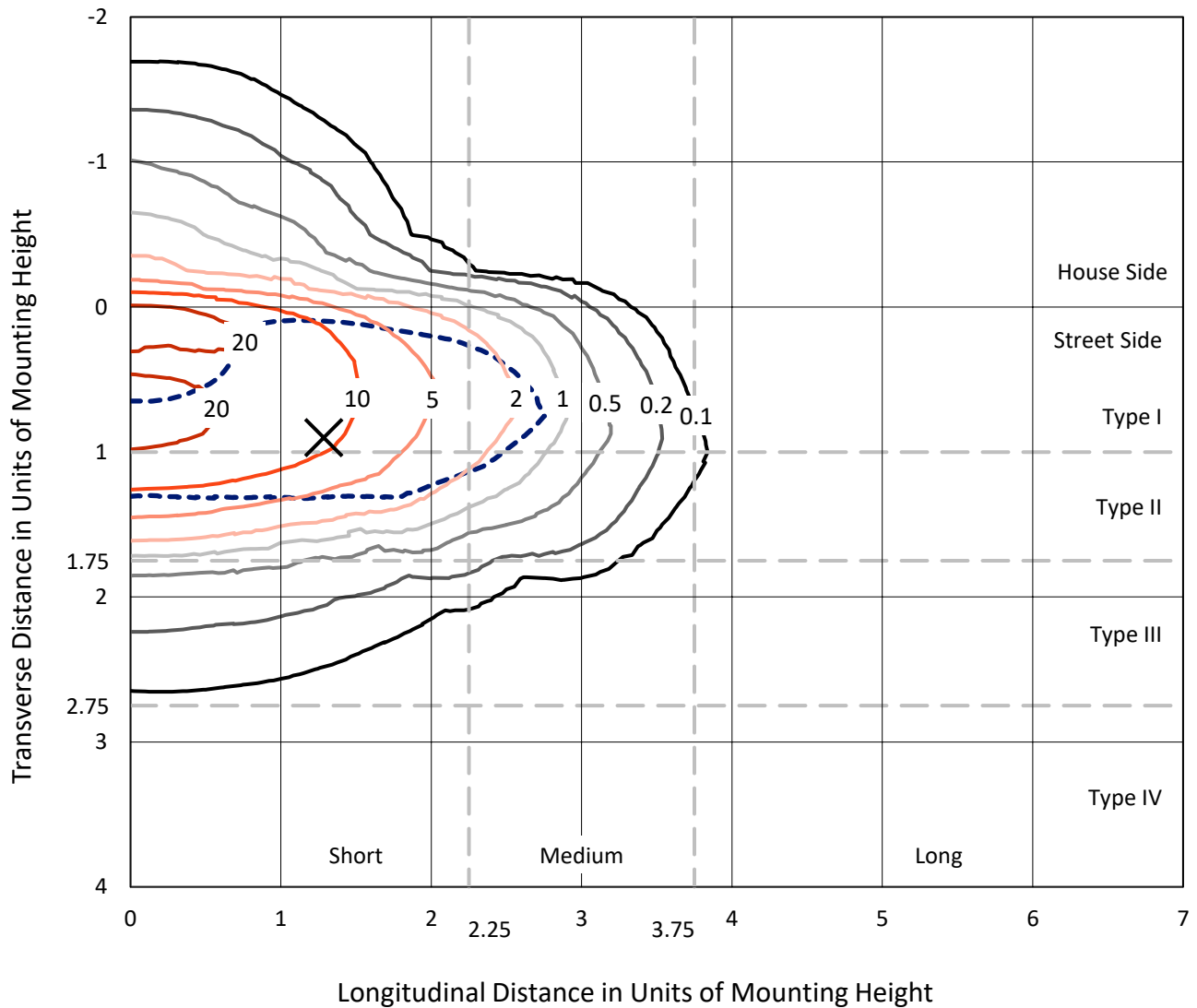
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

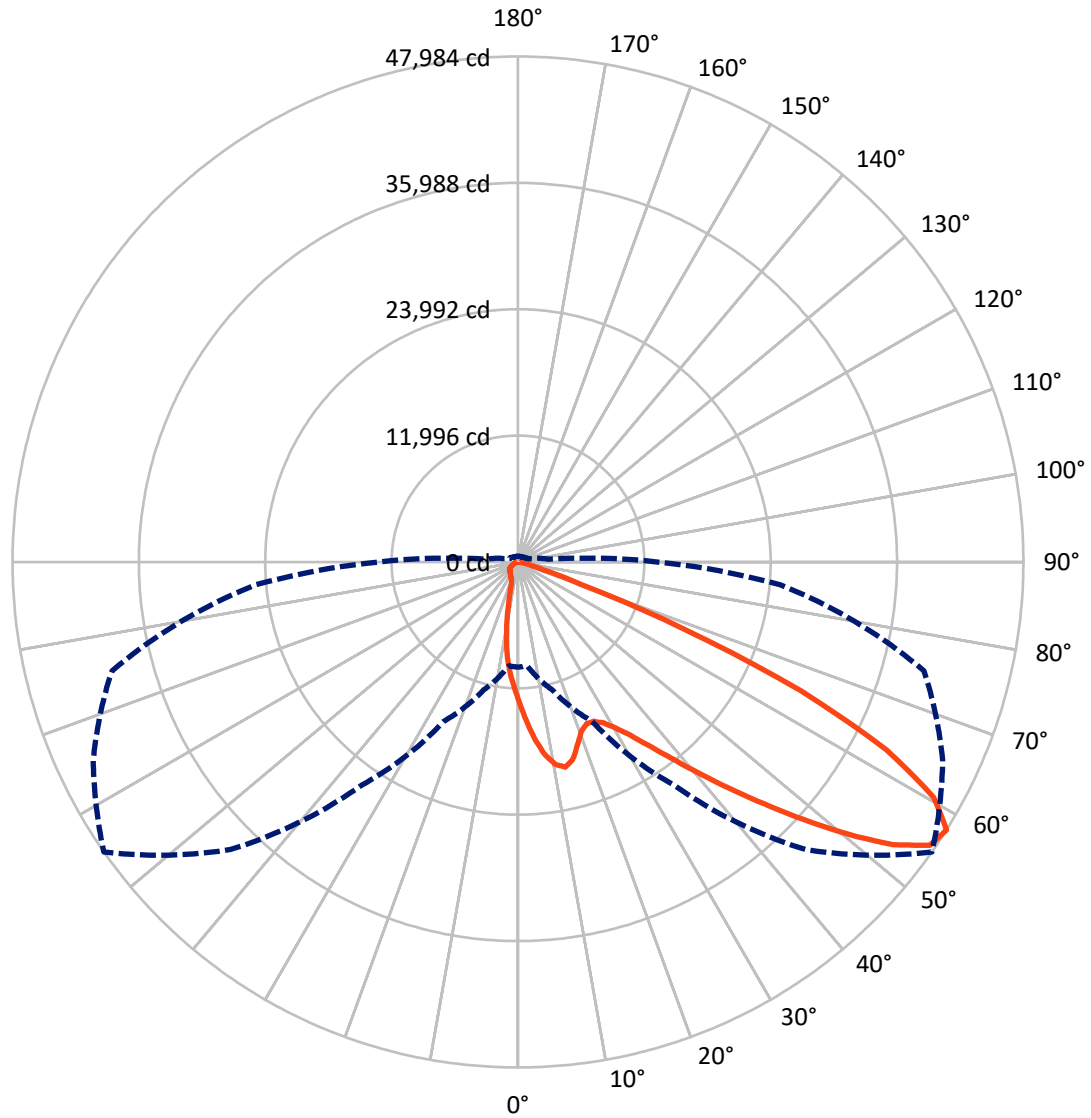
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 30.3 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 | 4293.3 | 0.0 | 4293.3 |
| | % Fixture | 7.8 | 0.0 | 7.8 |
| Street Side | Lumens | 50681.7 | 0.0 | 50681.7 |
| | % Fixture | 92.2 | 0.0 | 92.2 |
| Total | Lumens | 54975.0 | 0.0 | 54975.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1232.6 | 2.2 |
| 10°-20° | 2977.4 | 5.4 |
| 20°-30° | 4763.8 | 8.7 |
| 30°-40° | 8063.0 | 14.7 |
| 40°-50° | 13237.7 | 24.1 |
| 50°-60° | 14549.2 | 26.5 |
| 60°-70° | 8345.4 | 15.2 |
| 70°-80° | 1705.2 | 3.1 |
| 80°-90° | 100.6 | 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° | 54975.0 | 100.0 |
| 0°-180° | 54975.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P957621

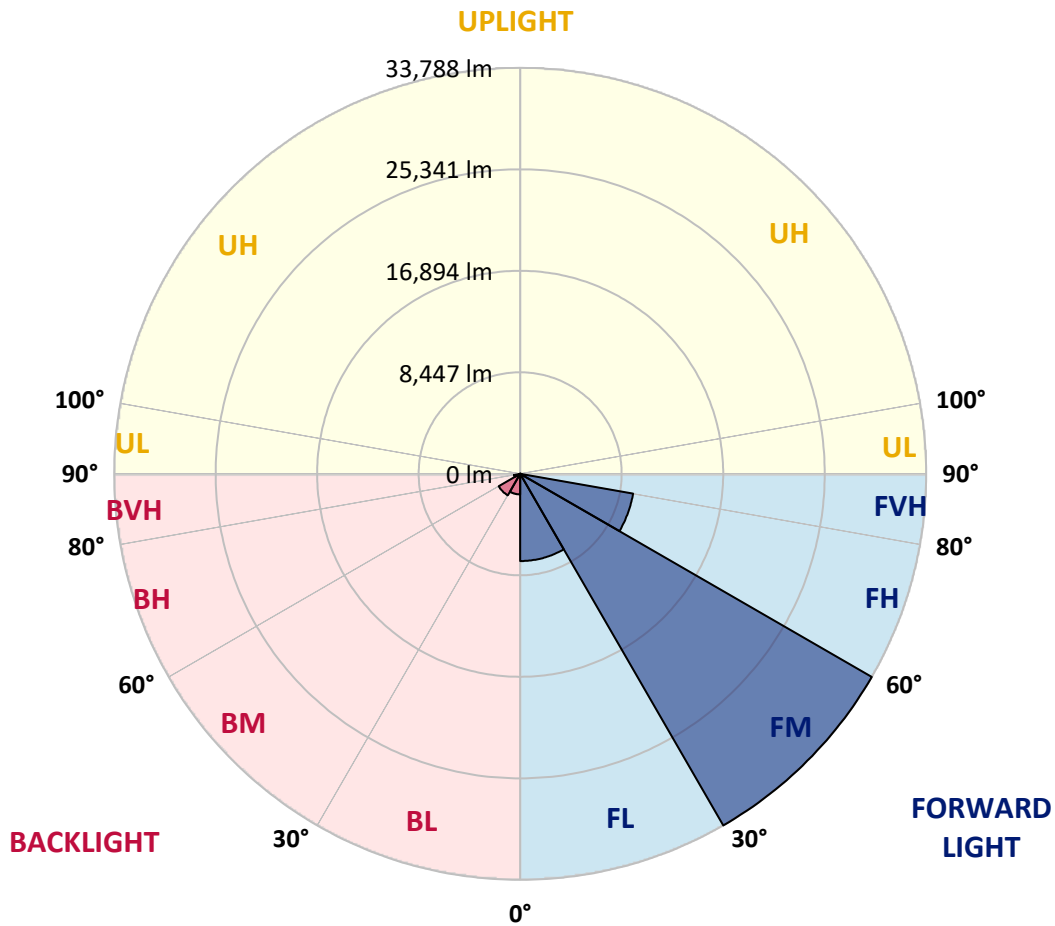
CATALOG NUMBER: GALN-SB9D-935-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 7259.8 | 13.2 | | | |
| FM (30°-60°) | 33788.0 | 61.5 | | | |
| FH (60°-80°) | 9540.0 | 17.4 | | | G4/12000 |
| FVH (80°-90°) | 93.8 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1714.0 | 3.1 | B3/2500 | | |
| BM (30°-60°) | 2061.9 | 3.8 | B2/2500 | | |
| BH (60°-80°) | 510.6 | 0.9 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 6.8 | 0.0 | | | G0/10 |
| 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 Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 13247.6 | 13247.6 | 13247.6 | 13247.6 | 13247.6 | 13247.6 | 13247.6 | 13247.6 | 13247.6 | 13247.6 |
| 2.5° | 16437.5 | 16230.7 | 16200.2 | 16159.5 | 15766.3 | 15471.4 | 15044.3 | 14576.4 | 14051.0 | 13515.4 |
| 5° | 18990.1 | 18827.3 | 18796.8 | 18607.0 | 18159.5 | 17657.8 | 16898.5 | 15939.2 | 14959.5 | 13806.9 |
| 7.5° | 19485.0 | 19454.5 | 19593.5 | 19586.7 | 19525.7 | 19129.0 | 18488.4 | 17346.0 | 15874.8 | 14166.3 |
| 10° | 17278.2 | 17356.1 | 17769.7 | 18132.4 | 19112.1 | 19681.6 | 19542.6 | 18600.2 | 16817.2 | 14576.4 |
| 12.5° | 15268.0 | 15176.5 | 15471.4 | 15881.6 | 17020.5 | 18715.5 | 19979.9 | 19647.7 | 17895.1 | 15040.9 |
| 15° | 14007.0 | 13969.7 | 14135.8 | 14325.6 | 15193.4 | 16901.9 | 19471.4 | 20498.6 | 18932.4 | 15590.0 |
| 17.5° | 13603.6 | 13573.0 | 13623.9 | 13671.4 | 14234.1 | 15556.1 | 18261.2 | 21020.6 | 19925.7 | 16217.1 |
| 20° | 13932.4 | 13891.7 | 13884.9 | 13847.6 | 14081.5 | 14983.2 | 17166.3 | 21057.9 | 20817.2 | 16786.6 |
| 22.5° | 14891.7 | 14844.2 | 14678.1 | 14529.0 | 14549.3 | 15061.2 | 16678.2 | 20685.0 | 21488.4 | 17318.9 |
| 25° | 16630.7 | 16552.7 | 16207.0 | 15705.3 | 15386.6 | 15603.6 | 16752.7 | 20193.5 | 22129.1 | 17735.8 |
| 27.5° | 18807.0 | 18705.3 | 18261.2 | 17515.5 | 16786.6 | 16522.2 | 17291.7 | 19854.5 | 22661.3 | 18054.5 |
| 30° | 20939.2 | 20807.0 | 20369.7 | 19790.1 | 18725.7 | 17891.7 | 18264.6 | 20003.6 | 23295.2 | 18386.7 |
| 32.5° | 23241.0 | 23115.5 | 22535.9 | 21817.2 | 20935.8 | 19813.8 | 19596.9 | 20732.5 | 24071.5 | 18851.1 |
| 35° | 26152.9 | 25956.3 | 25132.5 | 24152.8 | 23217.2 | 22081.6 | 21400.3 | 21990.1 | 25105.4 | 19559.6 |
| 37.5° | 29468.2 | 29203.7 | 28315.6 | 26963.0 | 25742.7 | 24471.5 | 23596.9 | 23718.9 | 26620.7 | 20508.7 |
| 40° | 32593.6 | 32352.9 | 31532.6 | 30258.0 | 28725.8 | 27183.4 | 26251.2 | 25980.0 | 28712.2 | 21664.7 |
| 42.5° | 34468.2 | 34251.3 | 33905.5 | 33366.5 | 32075.0 | 30502.1 | 29325.8 | 28739.3 | 31186.8 | 23047.7 |
| 45° | 34573.3 | 34383.5 | 34847.9 | 35475.0 | 35220.8 | 34173.3 | 32739.4 | 31664.8 | 33671.6 | 24346.1 |
| 47.5° | 32891.9 | 32763.1 | 34173.3 | 36363.2 | 37454.7 | 37895.4 | 36573.3 | 34346.2 | 35722.5 | 25278.3 |
| 50° | 28308.8 | 28261.4 | 31163.1 | 35183.5 | 38305.6 | 41156.4 | 40617.4 | 36841.1 | 37312.3 | 25759.6 |
| 52.5° | 24546.1 | 24373.2 | 26064.7 | 31407.2 | 37068.3 | 42871.7 | 44570.0 | 39288.6 | 38424.2 | 25851.2 |
| 55° | 18617.2 | 18464.6 | 20586.7 | 25088.4 | 33078.4 | 42261.5 | 47461.6 | 41814.1 | 39220.8 | 25617.3 |
| 57.5° | 9986.6 | 9891.6 | 12573.0 | 16698.5 | 25857.9 | 38600.5 | 47983.6 | 44485.3 | 39892.0 | 24996.9 |
| 60° | 3888.2 | 3871.2 | 4874.6 | 8101.8 | 15715.4 | 31403.8 | 45349.7 | 46088.7 | 40312.4 | 24234.2 |
| 62.5° | 2352.6 | 2403.4 | 2566.1 | 3637.3 | 6942.5 | 19508.7 | 39278.4 | 44264.9 | 40593.7 | 23535.9 |
| 65° | 1945.8 | 1949.2 | 1969.5 | 2498.3 | 3325.5 | 8162.8 | 29569.9 | 38264.9 | 39898.8 | 22291.8 |
| 67.5° | 1667.8 | 1698.3 | 1776.3 | 1983.1 | 2345.8 | 3579.7 | 17023.9 | 29641.0 | 35671.6 | 19396.8 |
| 70° | 1315.3 | 1355.9 | 1454.3 | 1630.5 | 1810.2 | 2240.7 | 6291.6 | 19722.3 | 27251.2 | 14620.5 |
| 72.5° | 1108.5 | 1105.1 | 1155.9 | 1325.4 | 1437.3 | 1576.3 | 2420.4 | 11051.0 | 15837.5 | 6979.7 |
| 75° | 857.6 | 891.5 | 955.9 | 1108.5 | 1176.3 | 1142.4 | 1311.9 | 4037.3 | 5674.6 | 2115.3 |
| 77.5° | 671.2 | 698.3 | 755.9 | 905.1 | 972.9 | 810.2 | 755.9 | 1444.1 | 1823.8 | 759.3 |
| 80° | 301.7 | 325.4 | 515.3 | 667.8 | 793.2 | 559.3 | 410.2 | 739.0 | 810.2 | 345.8 |
| 82.5° | 54.2 | 91.5 | 301.7 | 352.5 | 406.8 | 362.7 | 213.6 | 383.1 | 396.6 | 139.0 |
| 85° | 3.4 | 6.8 | 105.1 | 128.8 | 162.7 | 118.6 | 64.4 | 152.5 | 132.2 | 47.5 |
| 87.5° | 0.0 | 0.0 | 0.0 | 3.4 | 3.4 | 16.9 | 20.3 | 27.1 | 20.3 | 16.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P957621
 CATALOG NUMBER: GALN-SB9D-935-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 13247.6 | 0° | 13247.6 | 13247.6 | 13247.6 | 13247.6 | 13247.6 | 13247.6 | 13247.6 | 13247.6 | 13247.6 | 13247.6 |
| 13278.1 | 2.5° | 13034.1 | 12552.7 | 12084.9 | 11701.8 | 11478.1 | 11098.4 | 10847.6 | 10806.9 | 10701.8 | 10793.4 |
| 13312.0 | 5° | 12783.2 | 11922.2 | 11051.0 | 10271.3 | 9630.6 | 8803.5 | 8186.5 | 7925.5 | 7698.4 | 7776.4 |
| 13400.2 | 7.5° | 12664.6 | 11305.2 | 9949.3 | 8617.1 | 7247.5 | 5925.5 | 4942.4 | 4532.3 | 4220.4 | 4264.5 |
| 13498.5 | 10° | 12505.2 | 10664.5 | 8539.1 | 6505.2 | 4671.2 | 3366.1 | 2688.2 | 2437.3 | 2298.3 | 2301.7 |
| 13644.2 | 12.5° | 12383.2 | 9898.4 | 6901.8 | 4410.2 | 2844.1 | 2149.2 | 1939.0 | 1878.0 | 1837.3 | 1840.7 |
| 13864.6 | 15° | 12322.2 | 8996.7 | 5284.8 | 2939.0 | 2033.9 | 1820.4 | 1769.5 | 1742.4 | 1715.3 | 1711.9 |
| 14108.6 | 17.5° | 12220.5 | 7993.3 | 3867.8 | 2145.8 | 1779.7 | 1705.1 | 1661.0 | 1630.5 | 1596.6 | 1589.9 |
| 14318.8 | 20° | 12067.9 | 6854.3 | 2827.2 | 1813.6 | 1667.8 | 1610.2 | 1549.2 | 1508.5 | 1467.8 | 1461.0 |
| 14451.0 | 22.5° | 11786.6 | 5650.9 | 2172.9 | 1678.0 | 1586.5 | 1522.1 | 1447.5 | 1400.0 | 1359.3 | 1352.6 |
| 14386.6 | 25° | 11264.5 | 4522.1 | 1830.5 | 1593.2 | 1515.3 | 1437.3 | 1355.9 | 1291.5 | 1254.3 | 1247.5 |
| 14247.6 | 27.5° | 10603.5 | 3552.6 | 1661.0 | 1515.3 | 1423.7 | 1352.6 | 1261.0 | 1200.0 | 1166.1 | 1159.3 |
| 14064.6 | 30° | 9823.8 | 2735.6 | 1562.7 | 1427.1 | 1315.3 | 1254.3 | 1172.9 | 1122.0 | 1101.7 | 1101.7 |
| 13935.8 | 32.5° | 8983.2 | 2186.5 | 1522.1 | 1339.0 | 1220.4 | 1152.6 | 1088.1 | 1067.8 | 1061.0 | 1057.6 |
| 14007.0 | 35° | 8193.3 | 1898.3 | 1501.7 | 1267.8 | 1135.6 | 1071.2 | 1044.1 | 1047.5 | 1061.0 | 1061.0 |
| 14227.3 | 37.5° | 7491.6 | 1806.8 | 1491.5 | 1217.0 | 1061.0 | 1003.4 | 1020.4 | 1050.9 | 1037.3 | 1037.3 |
| 14613.7 | 40° | 6857.7 | 1817.0 | 1484.8 | 1179.7 | 1000.0 | 966.1 | 1000.0 | 976.3 | 942.4 | 939.0 |
| 15084.9 | 42.5° | 6373.0 | 1901.7 | 1471.2 | 1149.2 | 962.7 | 939.0 | 925.4 | 888.1 | 884.8 | 891.5 |
| 15573.1 | 45° | 6020.4 | 1976.3 | 1467.8 | 1135.6 | 922.0 | 878.0 | 861.0 | 823.7 | 891.5 | 908.5 |
| 15773.1 | 47.5° | 5603.5 | 1976.3 | 1467.8 | 1088.1 | 854.2 | 837.3 | 810.2 | 769.5 | 837.3 | 854.2 |
| 15583.2 | 50° | 5064.5 | 1850.9 | 1410.2 | 1033.9 | 800.0 | 789.8 | 742.4 | 691.5 | 678.0 | 688.1 |
| 15139.2 | 52.5° | 4383.1 | 1623.7 | 1264.4 | 959.3 | 745.8 | 725.4 | 667.8 | 630.5 | 620.3 | 620.3 |
| 14342.5 | 55° | 3606.8 | 1359.3 | 1067.8 | 850.9 | 688.1 | 650.9 | 610.2 | 593.2 | 583.1 | 576.3 |
| 13227.3 | 57.5° | 2932.2 | 1115.3 | 857.6 | 755.9 | 633.9 | 586.4 | 572.9 | 552.5 | 535.6 | 525.4 |
| 12295.1 | 60° | 2406.8 | 878.0 | 708.5 | 671.2 | 579.7 | 535.6 | 532.2 | 505.1 | 461.0 | 454.2 |
| 11525.6 | 62.5° | 1857.6 | 644.1 | 596.6 | 583.1 | 525.4 | 488.1 | 481.4 | 427.1 | 359.3 | 345.8 |
| 10434.0 | 65° | 1311.9 | 501.7 | 481.4 | 511.9 | 467.8 | 433.9 | 417.0 | 335.6 | 264.4 | 254.2 |
| 8732.3 | 67.5° | 922.0 | 420.3 | 379.7 | 447.5 | 406.8 | 362.7 | 352.5 | 284.7 | 220.3 | 213.6 |
| 6603.5 | 70° | 657.6 | 342.4 | 311.9 | 383.1 | 325.4 | 318.6 | 298.3 | 237.3 | 179.7 | 172.9 |
| 3267.8 | 72.5° | 464.4 | 261.0 | 240.7 | 332.2 | 223.7 | 274.6 | 244.1 | 183.1 | 135.6 | 128.8 |
| 1111.9 | 75° | 342.4 | 186.4 | 169.5 | 193.2 | 162.7 | 206.8 | 172.9 | 122.0 | 84.7 | 81.4 |
| 501.7 | 77.5° | 250.9 | 118.6 | 101.7 | 94.9 | 94.9 | 128.8 | 94.9 | 50.8 | 37.3 | 33.9 |
| 254.2 | 80° | 176.3 | 54.2 | 47.5 | 40.7 | 37.3 | 30.5 | 13.6 | 6.8 | 3.4 | 3.4 |
| 88.1 | 82.5° | 105.1 | 23.7 | 23.7 | 16.9 | 10.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 33.9 | 85° | 23.7 | 10.2 | 10.2 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 13.6 | 87.5° | 3.4 | 3.4 | 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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