

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: P957622

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957622
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
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
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 65576 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

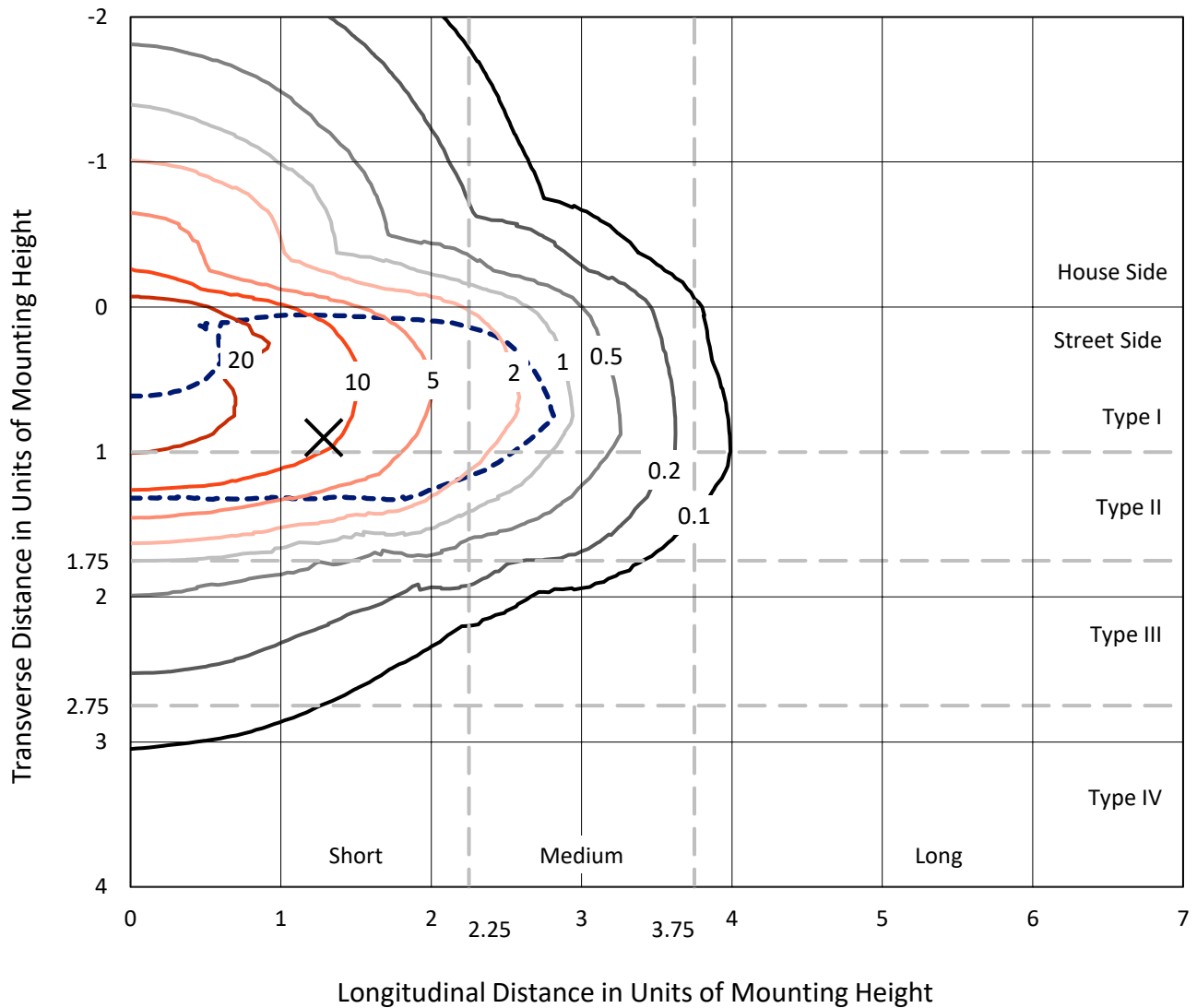
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

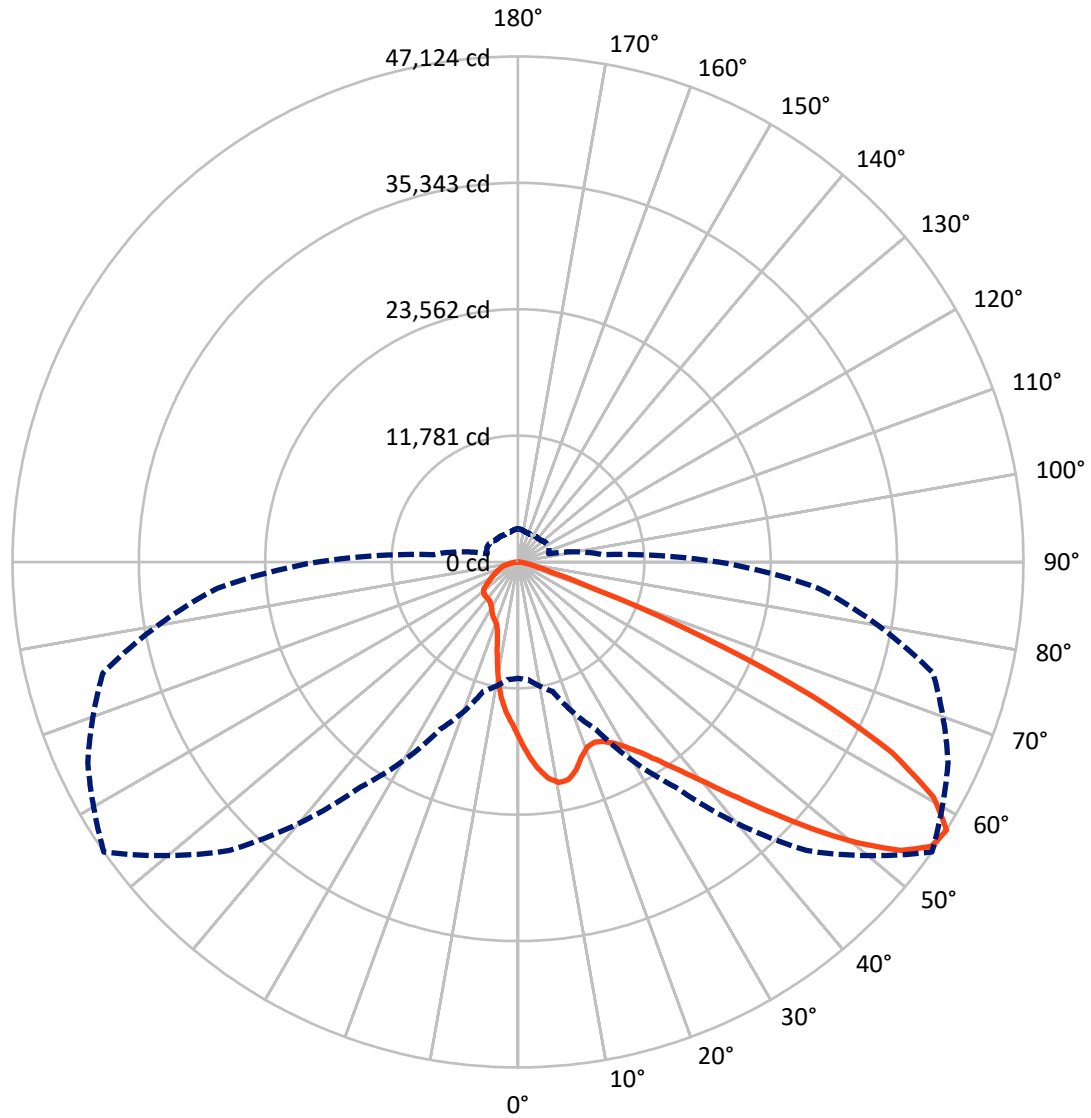
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 31.8 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 | 11865.6 | 0.0 | 11865.6 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 53710.3 | 0.0 | 53710.3 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 65576.0 | 0.0 | 65576.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1524.7 | 2.3 |
| 10°-20° | 3848.5 | 5.9 |
| 20°-30° | 6141.1 | 9.4 |
| 30°-40° | 9722.8 | 14.8 |
| 40°-50° | 14881.7 | 22.7 |
| 50°-60° | 15939.7 | 24.3 |
| 60°-70° | 10027.8 | 15.3 |
| 70°-80° | 2965.4 | 4.5 |
| 80°-90° | 524.3 | 0.8 |
| 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° | 65576.0 | 100.0 |
| 0°-180° | 65576.0 | 100.0 |

Coefficient of Utilization



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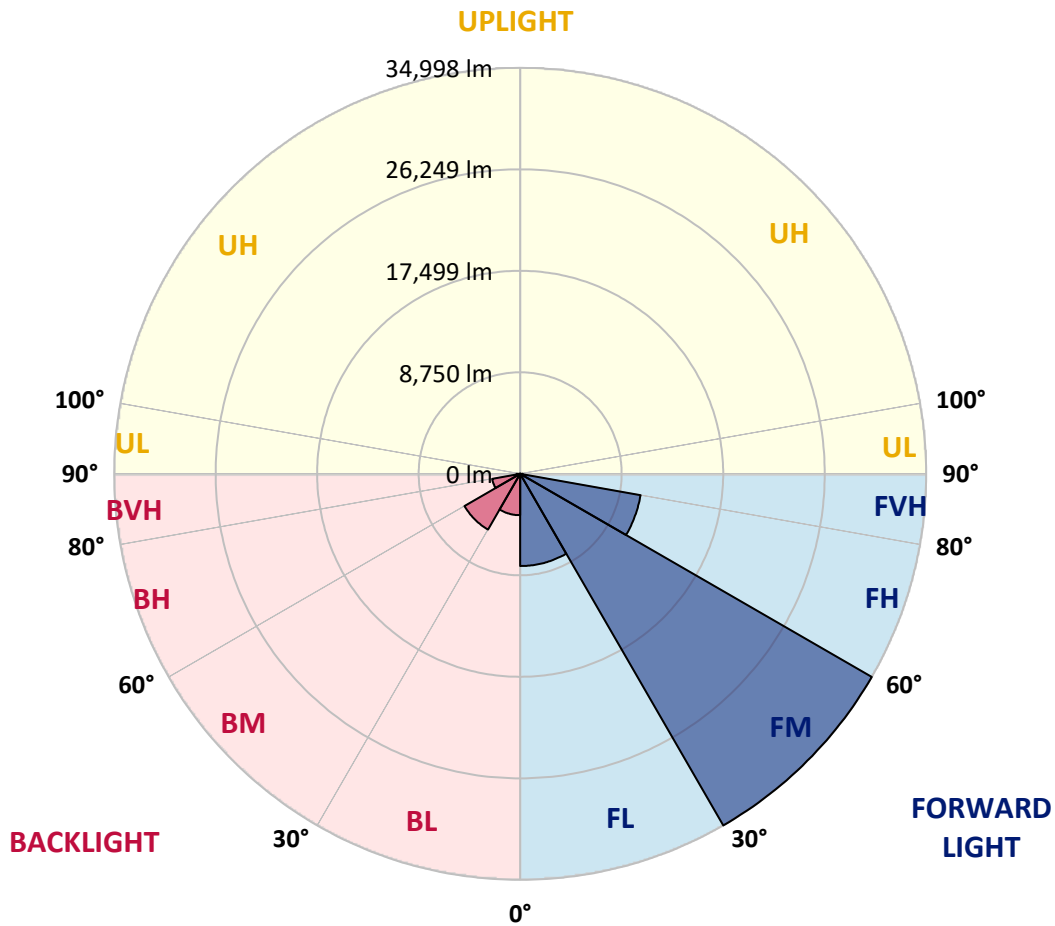
CATALOG NUMBER: GALN-SB9D-935-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 7947.8 | 12.1 | | | |
| FM (30°-60°) | 34998.4 | 53.4 | | | |
| FH (60°-80°) | 10542.6 | 16.1 | | | G4/12000 |
| FVH (80°-90°) | 221.5 | 0.3 | | | G2/225 |
| BL (0°-30°) | 3566.4 | 5.4 | B4/5000 | | |
| BM (30°-60°) | 5545.9 | 8.5 | B4/8500 | | |
| BH (60°-80°) | 2450.5 | 3.7 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 302.8 | 0.5 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 16431.2 | 16431.2 | 16431.2 | 16431.2 | 16431.2 | 16431.2 | 16431.2 | 16431.2 | 16431.2 | 16431.2 |
| 2.5° | 18851.7 | 18838.1 | 18912.7 | 18658.4 | 18485.5 | 18251.6 | 17943.1 | 17549.9 | 17126.2 | 16678.7 |
| 5° | 20550.0 | 20431.4 | 20509.4 | 20319.5 | 20129.7 | 19777.1 | 19319.5 | 18678.8 | 17895.7 | 17004.1 |
| 7.5° | 20282.2 | 20200.9 | 20400.9 | 20570.4 | 20712.8 | 20668.7 | 20333.1 | 19661.9 | 18651.7 | 17356.7 |
| 10° | 18122.8 | 18031.3 | 18312.7 | 18899.1 | 19760.2 | 20509.4 | 20916.2 | 20499.2 | 19424.6 | 17743.1 |
| 12.5° | 16217.6 | 16173.6 | 16360.0 | 16834.6 | 17790.6 | 19227.9 | 20841.6 | 21231.4 | 20228.0 | 18200.8 |
| 15° | 15404.1 | 15349.8 | 15468.5 | 15709.2 | 16319.3 | 17658.4 | 20163.6 | 21733.1 | 21017.9 | 18729.6 |
| 17.5° | 15224.4 | 15163.4 | 15214.2 | 15339.6 | 15732.9 | 16753.3 | 19139.8 | 21980.6 | 21841.6 | 19319.5 |
| 20° | 15556.6 | 15505.8 | 15512.5 | 15505.8 | 15780.3 | 16590.5 | 18427.9 | 21885.7 | 22560.3 | 19861.9 |
| 22.5° | 16360.0 | 16275.3 | 16278.7 | 16099.0 | 16248.2 | 16875.3 | 18241.5 | 21631.4 | 23201.0 | 20336.5 |
| 25° | 17668.6 | 17516.0 | 17546.5 | 17088.9 | 17048.2 | 17512.6 | 18533.0 | 21434.8 | 23838.3 | 20716.1 |
| 27.5° | 19458.5 | 19285.6 | 19194.0 | 18512.7 | 18187.2 | 18417.7 | 19126.2 | 21502.6 | 24441.7 | 21045.0 |
| 30° | 21695.9 | 21485.7 | 21299.2 | 20333.1 | 19743.2 | 19658.5 | 20048.3 | 21950.1 | 25153.6 | 21390.8 |
| 32.5° | 24438.3 | 24194.3 | 23855.3 | 22573.9 | 21743.3 | 21299.2 | 21241.6 | 22746.7 | 25987.6 | 21831.4 |
| 35° | 27702.9 | 27384.2 | 26902.9 | 25245.2 | 24194.3 | 23285.7 | 22814.5 | 23895.9 | 27130.0 | 22495.9 |
| 37.5° | 31065.7 | 30706.4 | 30265.7 | 28292.7 | 27001.2 | 25662.1 | 24733.3 | 25455.3 | 28652.1 | 23397.6 |
| 40° | 34167.6 | 33764.2 | 33354.0 | 31598.0 | 30211.5 | 28597.8 | 27082.5 | 27428.3 | 30513.2 | 24475.6 |
| 42.5° | 35998.2 | 35699.8 | 35543.9 | 34594.7 | 33523.5 | 31886.1 | 30004.7 | 29767.4 | 32604.8 | 25716.4 |
| 45° | 35916.8 | 35794.8 | 36276.1 | 36669.4 | 36415.1 | 35506.6 | 33428.6 | 32353.9 | 34703.2 | 26791.0 |
| 47.5° | 33998.1 | 34079.4 | 35154.1 | 37364.3 | 38337.2 | 38811.8 | 37327.0 | 34893.0 | 36527.0 | 27594.4 |
| 50° | 28777.5 | 28845.3 | 31333.6 | 36099.9 | 38832.2 | 41506.9 | 41195.0 | 37371.1 | 37940.6 | 28086.0 |
| 52.5° | 24645.1 | 24689.2 | 25757.0 | 32350.5 | 37198.2 | 42862.9 | 44679.9 | 39706.8 | 38974.6 | 28221.6 |
| 55° | 18563.5 | 18716.1 | 19912.7 | 25380.8 | 32947.2 | 41788.2 | 46802.0 | 42113.7 | 39628.8 | 28235.1 |
| 57.5° | 10844.5 | 11010.6 | 12488.7 | 17227.9 | 25607.9 | 38042.3 | 47124.1 | 44249.4 | 40072.9 | 28126.6 |
| 60° | 5312.1 | 5383.3 | 6027.4 | 9054.6 | 15790.5 | 30825.1 | 44534.1 | 45283.3 | 40320.4 | 28069.0 |
| 62.5° | 3579.8 | 3569.6 | 3596.8 | 4468.0 | 7780.0 | 19804.2 | 39137.3 | 43473.1 | 40188.2 | 27848.7 |
| 65° | 3078.1 | 3040.8 | 2939.1 | 3135.7 | 4030.7 | 9058.0 | 30238.6 | 38069.4 | 39181.4 | 27296.1 |
| 67.5° | 2661.1 | 2664.5 | 2667.9 | 2606.9 | 2878.1 | 4179.8 | 18478.8 | 29987.7 | 35567.6 | 24679.0 |
| 70° | 2203.5 | 2234.0 | 2247.6 | 2247.6 | 2345.9 | 2742.5 | 7888.5 | 20553.4 | 28055.4 | 19350.0 |
| 72.5° | 2006.9 | 1942.5 | 1949.2 | 1915.3 | 1915.3 | 2088.2 | 3176.4 | 11651.3 | 17675.3 | 10885.2 |
| 75° | 1637.4 | 1678.0 | 1684.8 | 1661.1 | 1583.1 | 1593.3 | 1884.8 | 4888.3 | 7563.0 | 4515.4 |
| 77.5° | 1413.6 | 1413.6 | 1427.2 | 1410.2 | 1349.2 | 1193.3 | 1257.7 | 1895.0 | 2573.0 | 1850.9 |
| 80° | 1135.6 | 1132.3 | 1189.9 | 1223.8 | 1128.9 | 881.4 | 803.4 | 1047.5 | 1142.4 | 813.6 |
| 82.5° | 552.6 | 586.5 | 817.0 | 932.2 | 857.7 | 637.3 | 491.5 | 650.9 | 610.2 | 359.3 |
| 85° | 322.0 | 305.1 | 366.1 | 518.7 | 491.5 | 352.6 | 237.3 | 339.0 | 318.7 | 183.1 |
| 87.5° | 101.7 | 94.9 | 74.6 | 176.3 | 142.4 | 98.3 | 64.4 | 98.3 | 88.1 | 40.7 |
| 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° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 16431.2 | 0° | 16431.2 | 16431.2 | 16431.2 | 16431.2 | 16431.2 | 16431.2 | 16431.2 | 16431.2 | 16431.2 | 16431.2 |
| 16485.5 | 2.5° | 16244.8 | 15844.8 | 15448.1 | 15085.4 | 14865.0 | 14722.7 | 14580.3 | 14421.0 | 14359.9 | 14268.4 |
| 16529.5 | 5° | 16082.0 | 15309.1 | 14621.0 | 14027.7 | 13488.7 | 13065.0 | 12637.8 | 12292.1 | 12136.1 | 12241.2 |
| 16668.5 | 7.5° | 15987.1 | 14868.4 | 13807.4 | 12719.2 | 11671.7 | 10834.4 | 10105.5 | 9593.6 | 9363.1 | 9420.7 |
| 16804.1 | 10° | 15902.4 | 14370.1 | 12753.1 | 11034.4 | 9529.2 | 8491.9 | 7746.1 | 7356.2 | 7210.5 | 7241.0 |
| 16987.2 | 12.5° | 15824.4 | 13810.8 | 11481.9 | 9220.7 | 7620.7 | 6935.9 | 6722.3 | 6725.7 | 6752.8 | 6773.2 |
| 17278.7 | 15° | 15810.9 | 13136.2 | 10061.5 | 7634.2 | 6590.1 | 6546.0 | 6776.6 | 6922.3 | 7000.3 | 7024.0 |
| 17522.8 | 17.5° | 15790.5 | 12329.3 | 8613.9 | 6552.8 | 6339.3 | 6637.6 | 6851.1 | 6946.1 | 7007.1 | 7010.5 |
| 17760.1 | 20° | 15709.2 | 11305.6 | 7278.3 | 6037.5 | 6285.0 | 6542.7 | 6674.9 | 6749.4 | 6800.3 | 6817.2 |
| 17939.8 | 22.5° | 15458.3 | 10166.5 | 6237.6 | 5807.0 | 6068.1 | 6274.8 | 6430.8 | 6515.5 | 6546.0 | 6566.4 |
| 17973.7 | 25° | 15007.4 | 8891.9 | 5518.9 | 5586.7 | 5766.4 | 6027.4 | 6152.8 | 6169.8 | 6159.6 | 6190.1 |
| 17888.9 | 27.5° | 14417.6 | 7525.7 | 5071.4 | 5288.4 | 5518.9 | 5742.6 | 5810.4 | 5800.3 | 5779.9 | 5813.8 |
| 17743.1 | 30° | 13705.7 | 6298.6 | 4786.6 | 4952.8 | 5268.0 | 5471.4 | 5532.4 | 5508.7 | 5468.0 | 5505.3 |
| 17668.6 | 32.5° | 12953.1 | 5295.1 | 4552.7 | 4718.8 | 5061.2 | 5261.2 | 5322.3 | 5298.5 | 5268.0 | 5298.5 |
| 17753.3 | 35° | 12251.4 | 4593.4 | 4335.8 | 4562.9 | 4898.5 | 5095.1 | 5173.1 | 5176.5 | 5176.5 | 5213.8 |
| 17977.0 | 37.5° | 11607.3 | 4183.2 | 4156.1 | 4464.6 | 4786.6 | 4962.9 | 5074.8 | 5081.6 | 4935.8 | 4946.0 |
| 18356.7 | 40° | 11010.6 | 4010.3 | 4074.8 | 4400.2 | 4678.2 | 4847.7 | 4854.4 | 4474.8 | 4207.0 | 4200.2 |
| 18790.6 | 42.5° | 10522.5 | 3976.4 | 4098.5 | 4393.4 | 4600.2 | 4607.0 | 4129.0 | 3834.1 | 3759.5 | 3762.9 |
| 19190.7 | 45° | 10064.8 | 3966.3 | 4152.7 | 4393.4 | 4484.9 | 3979.8 | 3657.8 | 3579.8 | 3586.6 | 3613.7 |
| 19370.3 | 47.5° | 9553.0 | 3925.6 | 4162.9 | 4332.4 | 4152.7 | 3539.1 | 3444.2 | 3410.3 | 3396.8 | 3403.5 |
| 19329.6 | 50° | 8993.6 | 3779.8 | 4034.1 | 4210.4 | 3583.2 | 3349.3 | 3230.6 | 3220.5 | 3237.4 | 3247.6 |
| 19102.5 | 52.5° | 8403.8 | 3542.5 | 3813.7 | 3990.0 | 3322.2 | 3183.2 | 3051.0 | 3074.7 | 3149.3 | 3173.0 |
| 18865.2 | 55° | 8017.3 | 3264.5 | 3522.2 | 3549.3 | 3139.1 | 3027.2 | 2915.4 | 2969.6 | 3108.6 | 3152.7 |
| 18722.8 | 57.5° | 7915.6 | 2969.6 | 3190.0 | 3159.5 | 2905.2 | 2891.7 | 2823.9 | 2871.3 | 3047.6 | 3112.0 |
| 18716.1 | 60° | 7885.1 | 2705.2 | 2864.5 | 2840.8 | 2678.1 | 2742.5 | 2725.5 | 2749.3 | 2810.3 | 2830.6 |
| 18648.3 | 62.5° | 7647.8 | 2495.0 | 2573.0 | 2539.1 | 2474.7 | 2586.6 | 2627.2 | 2576.4 | 2623.8 | 2647.6 |
| 18183.8 | 65° | 7044.4 | 2325.5 | 2288.2 | 2264.5 | 2291.6 | 2393.3 | 2474.7 | 2373.0 | 2417.1 | 2484.9 |
| 16393.9 | 67.5° | 6047.7 | 2095.0 | 1993.3 | 2020.4 | 2105.2 | 2159.4 | 2264.5 | 2149.2 | 2186.5 | 2301.8 |
| 13204.0 | 70° | 4891.7 | 1803.5 | 1711.9 | 1789.9 | 1871.3 | 1983.1 | 2000.1 | 1922.1 | 2010.3 | 2139.1 |
| 8058.0 | 72.5° | 3461.2 | 1508.5 | 1444.1 | 1603.5 | 1630.6 | 1776.3 | 1739.1 | 1701.8 | 1823.8 | 1867.9 |
| 3983.2 | 75° | 2400.1 | 1217.0 | 1179.7 | 1301.8 | 1400.1 | 1525.5 | 1498.4 | 1542.4 | 1800.1 | 1820.4 |
| 1989.9 | 77.5° | 1518.7 | 945.8 | 922.1 | 1000.0 | 1135.6 | 1274.6 | 1318.7 | 1820.4 | 3074.7 | 3196.7 |
| 1033.9 | 80° | 881.4 | 705.1 | 678.0 | 739.0 | 857.7 | 986.5 | 1271.2 | 2234.0 | 2027.2 | 2003.5 |
| 464.4 | 82.5° | 491.5 | 484.8 | 450.9 | 467.8 | 572.9 | 711.9 | 1796.7 | 1572.9 | 1278.0 | 1318.7 |
| 186.4 | 85° | 230.5 | 284.8 | 244.1 | 233.9 | 322.0 | 833.9 | 1200.1 | 898.3 | 596.6 | 583.1 |
| 40.7 | 87.5° | 61.0 | 54.2 | 54.2 | 61.0 | 135.6 | 718.7 | 478.0 | 383.1 | 227.1 | 220.3 |
| 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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