

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: P944539

Luminaire Tested: **GALN-SB9C-740-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944539
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9C-740-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 71329 lumens
Efficiency: N/A
Efficacy: 158.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U0 - G5

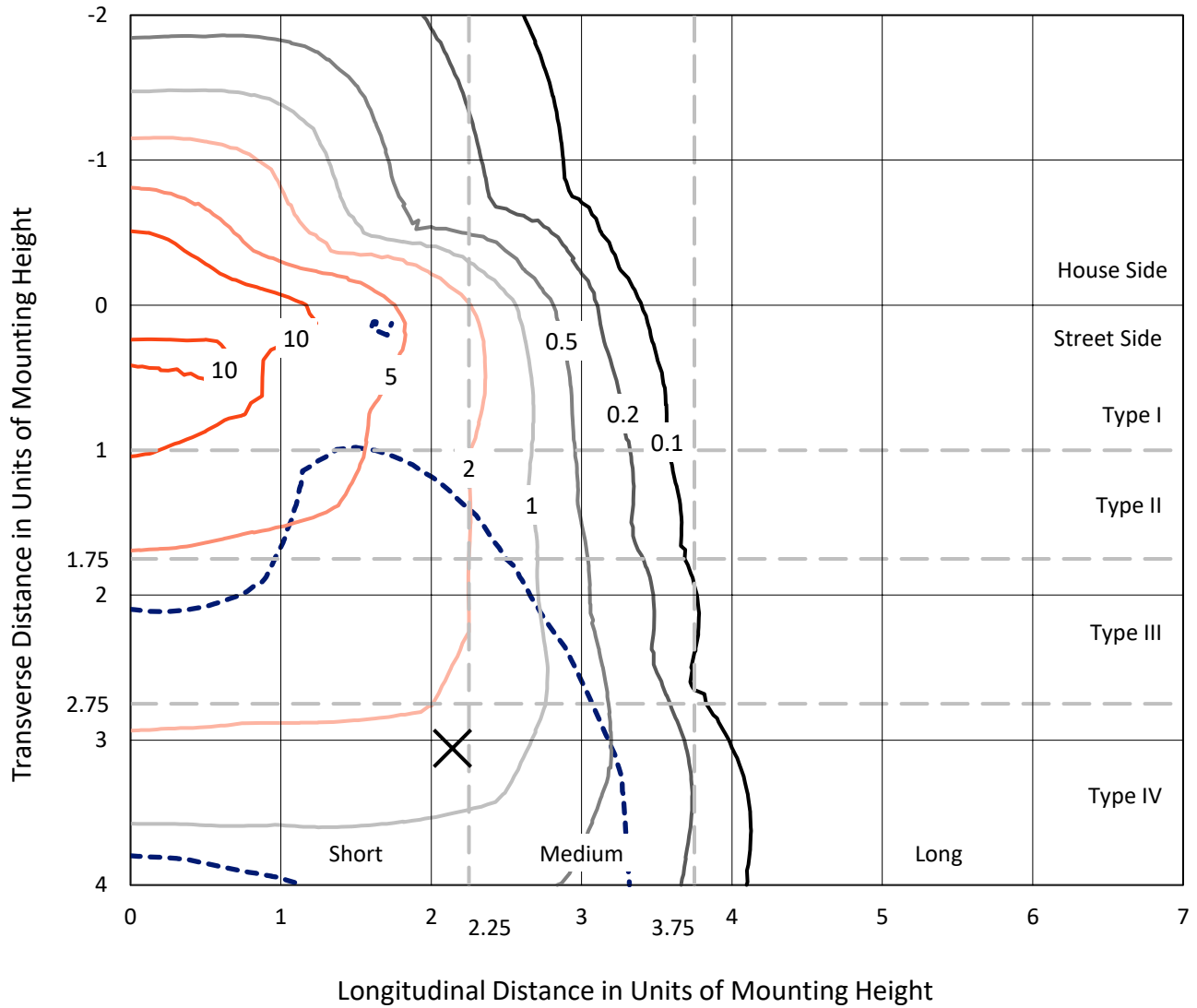
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

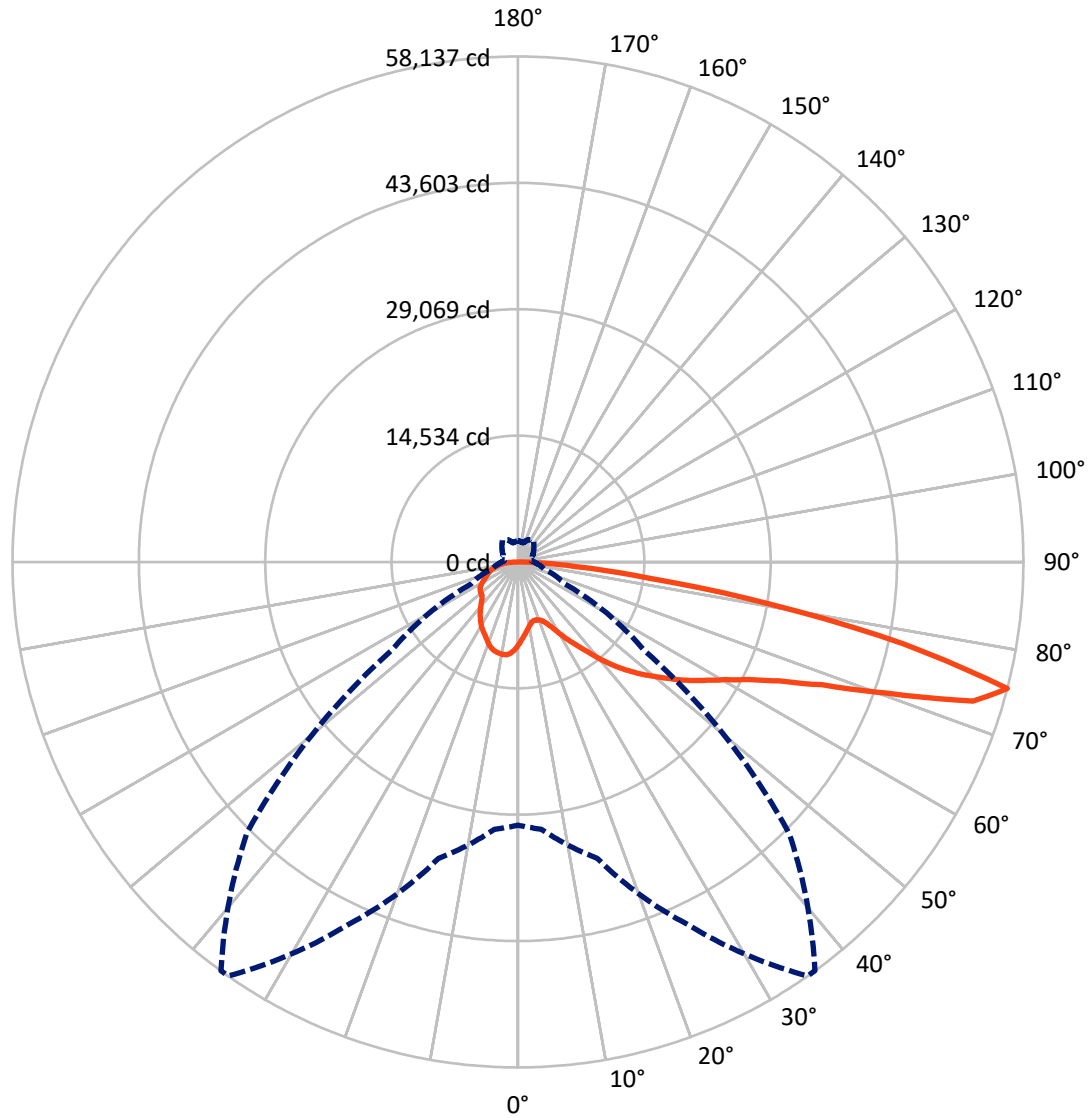
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 16974.5 | 0.0 | 16974.5 |
| | % Fixture | 23.8 | 0.0 | 23.8 |
| Street Side | Lumens | 54354.5 | 0.0 | 54354.5 |
| | % Fixture | 76.2 | 0.0 | 76.2 |
| Total | Lumens | 71329.0 | 0.0 | 71329.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 899.9 | 1.3 |
| 10°-20° | 2595.8 | 3.6 |
| 20°-30° | 4359.1 | 6.1 |
| 30°-40° | 6774.6 | 9.5 |
| 40°-50° | 10055.3 | 14.1 |
| 50°-60° | 13881.9 | 19.5 |
| 60°-70° | 16841.9 | 23.6 |
| 70°-80° | 13918.6 | 19.5 |
| 80°-90° | 2001.9 | 2.8 |
| 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° | 71329.0 | 100.0 |
| 0°-180° | 71329.0 | 100.0 |

Coefficient of Utilization

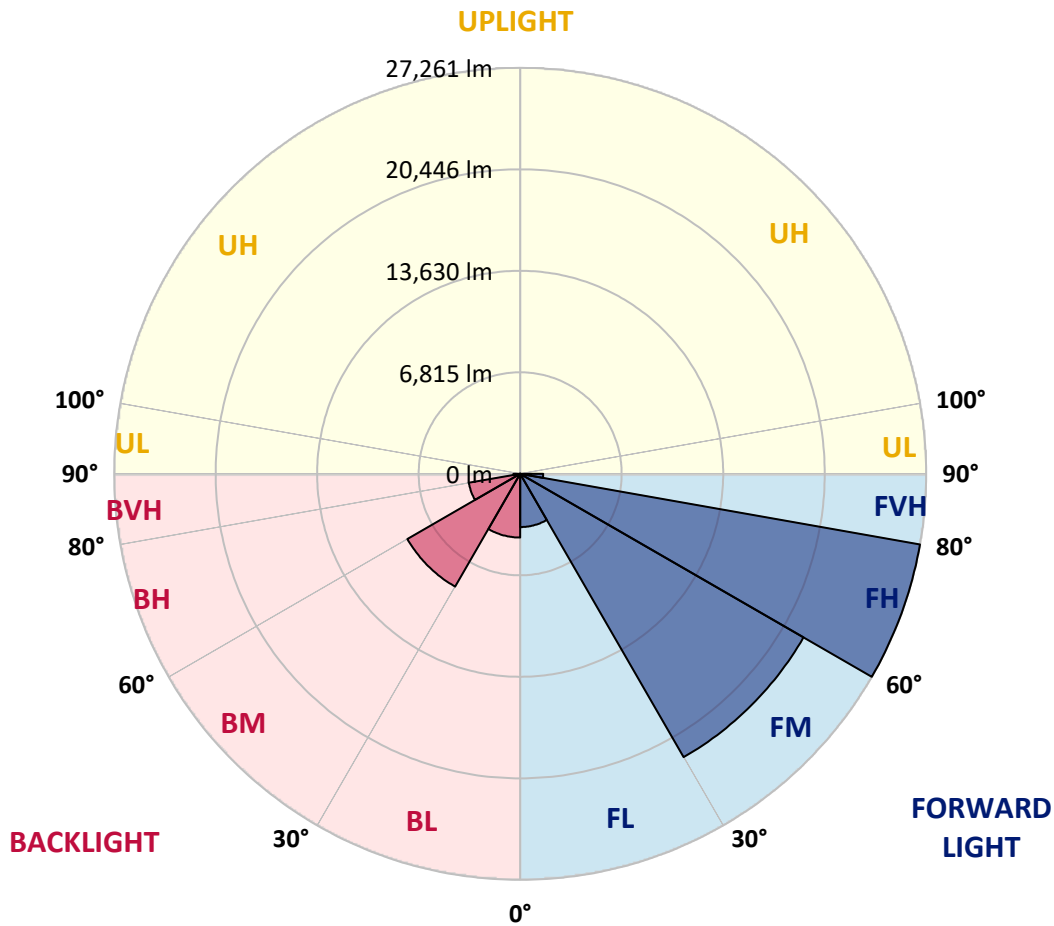


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3577.0 | 5.0 | | | |
| FM (30°-60°) | 21965.5 | 30.8 | | | |
| FH (60°-80°) | 27260.9 | 38.2 | | | G5 |
| FVH (80°-90°) | 1551.1 | 2.2 | | | G5 |
| BL (0°-30°) | 4277.8 | 6.0 | B4/5000 | | |
| BM (30°-60°) | 8746.3 | 12.3 | B5 | | |
| BH (60°-80°) | 3499.6 | 4.9 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 450.8 | 0.6 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5
 Type IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 36° | 45° | 55° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 9505.1 | 9505.1 | 9505.1 | 9505.1 | 9505.1 | 9505.1 | 9505.1 | 9505.1 | 9505.1 | 9505.1 |
| 2.5° | 8764.7 | 8818.7 | 8841.8 | 8830.3 | 8888.1 | 8880.4 | 8961.4 | 9061.6 | 9200.4 | 9335.4 |
| 5° | 8089.9 | 8147.8 | 8197.9 | 8244.2 | 8356.0 | 8390.7 | 8517.9 | 8710.7 | 8965.2 | 9223.6 |
| 7.5° | 7461.4 | 7511.5 | 7588.6 | 7673.5 | 7862.4 | 7897.1 | 8109.2 | 8410.0 | 8764.7 | 9142.6 |
| 10° | 6948.5 | 6998.7 | 7079.6 | 7176.0 | 7411.3 | 7453.7 | 7723.6 | 8124.6 | 8587.3 | 9065.5 |
| 12.5° | 6728.7 | 6744.2 | 6790.4 | 6886.8 | 7091.2 | 7118.2 | 7415.1 | 7874.0 | 8413.8 | 9007.6 |
| 15° | 6717.2 | 6748.0 | 6751.9 | 6802.0 | 6971.7 | 6983.2 | 7257.0 | 7712.0 | 8305.9 | 8996.1 |
| 17.5° | 6832.9 | 6856.0 | 6821.3 | 6852.1 | 6994.8 | 7014.1 | 7230.0 | 7634.9 | 8271.1 | 9046.2 |
| 20° | 7141.3 | 7160.6 | 7056.5 | 7014.1 | 7118.2 | 7133.6 | 7345.7 | 7685.0 | 8305.9 | 9150.3 |
| 22.5° | 7796.9 | 7808.4 | 7553.9 | 7380.4 | 7388.1 | 7395.8 | 7580.9 | 7889.4 | 8440.8 | 9339.3 |
| 25° | 8818.7 | 8811.0 | 8406.1 | 8070.6 | 7877.8 | 7835.4 | 7958.8 | 8221.0 | 8668.3 | 9589.9 |
| 27.5° | 10014.1 | 9956.2 | 9551.3 | 9050.1 | 8629.8 | 8568.1 | 8541.1 | 8652.9 | 8992.2 | 9921.5 |
| 30° | 11363.7 | 11309.7 | 10874.0 | 10218.4 | 9636.2 | 9535.9 | 9281.4 | 9223.6 | 9474.2 | 10372.7 |
| 32.5° | 12844.4 | 12809.7 | 12289.1 | 11494.8 | 10715.9 | 10600.2 | 10172.2 | 10017.9 | 10214.6 | 11055.2 |
| 35° | 14086.0 | 14055.2 | 13623.3 | 12805.8 | 11853.4 | 11710.7 | 11275.0 | 11101.5 | 11201.7 | 11930.5 |
| 37.5° | 15208.1 | 15192.7 | 14822.5 | 14178.6 | 13195.3 | 13021.8 | 12532.0 | 12474.2 | 12454.9 | 13083.5 |
| 40° | 16249.2 | 16210.7 | 15825.1 | 15485.7 | 14757.0 | 14598.9 | 14167.0 | 14116.9 | 13970.3 | 14502.5 |
| 42.5° | 17402.2 | 17301.9 | 16742.8 | 16584.7 | 16388.1 | 16257.0 | 15998.6 | 16006.3 | 15682.4 | 16102.7 |
| 45° | 18343.1 | 18285.2 | 17710.7 | 17618.1 | 17830.2 | 17776.2 | 17999.9 | 18057.7 | 17429.2 | 17780.1 |
| 47.5° | 19353.3 | 19299.3 | 18813.5 | 18747.9 | 19322.5 | 19337.9 | 20128.4 | 20147.7 | 19133.5 | 19523.0 |
| 50° | 20598.8 | 20521.7 | 20039.7 | 20120.7 | 20764.6 | 20822.5 | 22268.5 | 22137.4 | 20702.9 | 21292.9 |
| 52.5° | 21420.2 | 21466.4 | 21362.3 | 21493.4 | 22372.6 | 22426.6 | 24373.9 | 24038.4 | 22256.9 | 23039.7 |
| 55° | 22025.5 | 22118.1 | 22442.0 | 22742.8 | 24069.2 | 24123.2 | 26359.7 | 25846.9 | 23544.8 | 24659.2 |
| 57.5° | 22804.5 | 22673.4 | 23278.7 | 23864.9 | 25681.0 | 25823.7 | 28291.6 | 27589.8 | 24686.2 | 26055.1 |
| 60° | 23922.7 | 23830.2 | 24300.6 | 25168.2 | 27485.7 | 27713.2 | 30335.3 | 29159.2 | 25522.9 | 27161.8 |
| 62.5° | 26190.0 | 25958.7 | 26031.9 | 26799.3 | 29760.7 | 30061.5 | 32641.1 | 30528.1 | 25939.4 | 27593.6 |
| 65° | 29579.5 | 29182.3 | 28812.1 | 29344.3 | 32965.1 | 33262.0 | 35244.0 | 31603.9 | 25785.2 | 26756.9 |
| 67.5° | 33848.1 | 33454.8 | 32999.8 | 33501.0 | 37684.8 | 37920.0 | 38456.0 | 32209.3 | 24570.5 | 23533.2 |
| 70° | 37368.6 | 37222.1 | 37765.8 | 39828.8 | 45223.3 | 45231.0 | 42574.2 | 31708.0 | 21242.8 | 16685.0 |
| 72.5° | 36902.0 | 36813.4 | 39678.4 | 46056.2 | 54724.5 | 54520.2 | 46472.7 | 27913.7 | 14309.7 | 7526.9 |
| 75° | 30273.6 | 30848.1 | 35286.4 | 45944.4 | 58137.1 | 58110.1 | 44085.8 | 17745.4 | 5919.0 | 3119.5 |
| 77.5° | 16233.8 | 17143.8 | 22908.6 | 33921.3 | 45385.3 | 46067.8 | 30994.6 | 6208.2 | 2541.1 | 1997.4 |
| 80° | 5294.3 | 6088.6 | 9131.0 | 17271.1 | 29490.8 | 29363.5 | 13284.0 | 2437.0 | 1739.1 | 1415.2 |
| 82.5° | 2248.1 | 2340.6 | 4079.7 | 8155.5 | 15134.9 | 14899.6 | 4230.0 | 1399.7 | 1222.4 | 967.9 |
| 85° | 879.2 | 983.3 | 1800.8 | 3771.2 | 6555.2 | 6412.5 | 1527.0 | 694.1 | 782.8 | 632.4 |
| 87.5° | 289.2 | 350.9 | 644.0 | 1291.8 | 2039.8 | 1966.6 | 374.0 | 239.1 | 339.3 | 289.2 |
| 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° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 9505.1 | 0° | 9505.1 | 9505.1 | 9505.1 | 9505.1 | 9505.1 | 9505.1 | 9505.1 | 9505.1 | 9505.1 | 9505.1 |
| 9532.1 | 2.5° | 9586.0 | 9647.7 | 9721.0 | 9829.0 | 9921.5 | 9998.6 | 10079.6 | 10129.7 | 10149.0 | 10206.9 |
| 9547.5 | 5° | 9655.5 | 9790.4 | 9971.6 | 10149.0 | 10322.5 | 10426.7 | 10519.2 | 10565.5 | 10607.9 | 10638.7 |
| 9589.9 | 7.5° | 9771.1 | 9944.7 | 10230.0 | 10461.4 | 10607.9 | 10692.7 | 10754.4 | 10739.0 | 10754.4 | 10762.1 |
| 9636.2 | 10° | 9871.4 | 10114.3 | 10453.7 | 10673.4 | 10785.3 | 10789.1 | 10773.7 | 10719.7 | 10692.7 | 10696.6 |
| 9705.6 | 12.5° | 9990.9 | 10260.9 | 10627.2 | 10812.3 | 10843.1 | 10758.3 | 10692.7 | 10600.2 | 10565.5 | 10550.1 |
| 9809.7 | 15° | 10152.9 | 10461.4 | 10816.1 | 10885.5 | 10808.4 | 10700.4 | 10588.6 | 10438.2 | 10361.1 | 10299.4 |
| 9987.1 | 17.5° | 10349.5 | 10688.9 | 10962.6 | 10912.5 | 10746.7 | 10569.3 | 10388.1 | 10160.6 | 10002.5 | 9936.9 |
| 10230.0 | 20° | 10623.3 | 10927.9 | 11074.5 | 10854.7 | 10604.0 | 10334.1 | 10025.6 | 9748.0 | 9601.5 | 9535.9 |
| 10538.5 | 22.5° | 10954.9 | 11248.0 | 11182.4 | 10754.4 | 10399.7 | 9967.8 | 9582.2 | 9377.8 | 9304.6 | 9258.3 |
| 10935.7 | 25° | 11352.1 | 11602.7 | 11259.6 | 10607.9 | 10064.2 | 9481.9 | 9185.0 | 9119.5 | 9084.8 | 9050.1 |
| 11421.5 | 27.5° | 11868.8 | 12003.8 | 11317.4 | 10392.0 | 9539.8 | 8965.2 | 8857.3 | 8868.8 | 8857.3 | 8799.4 |
| 12096.3 | 30° | 12551.3 | 12524.3 | 11371.4 | 10041.1 | 8938.2 | 8498.7 | 8506.4 | 8556.5 | 8564.2 | 8525.6 |
| 13037.2 | 32.5° | 13449.8 | 13176.0 | 11398.4 | 9586.0 | 8363.7 | 8089.9 | 8097.6 | 8151.6 | 8190.2 | 8124.6 |
| 14267.2 | 35° | 14537.2 | 13935.6 | 11356.0 | 9015.4 | 7920.3 | 7700.5 | 7642.6 | 7658.0 | 7669.6 | 7607.9 |
| 15759.5 | 37.5° | 15805.8 | 14787.8 | 11167.0 | 8383.0 | 7553.9 | 7318.7 | 7195.3 | 7091.2 | 7029.5 | 6971.7 |
| 17448.5 | 40° | 17197.8 | 15717.1 | 10820.0 | 7766.0 | 7145.2 | 6913.8 | 6728.7 | 6532.1 | 6323.9 | 6246.7 |
| 19237.6 | 42.5° | 18655.4 | 16673.4 | 10399.7 | 7176.0 | 6674.8 | 6485.8 | 6289.2 | 6003.8 | 5691.5 | 5533.4 |
| 21096.2 | 45° | 20166.9 | 17652.8 | 9987.1 | 6593.8 | 6192.8 | 6111.8 | 5884.3 | 5541.1 | 5201.8 | 5001.2 |
| 22958.7 | 47.5° | 21647.7 | 18578.3 | 9381.7 | 6007.7 | 5741.6 | 5830.3 | 5652.9 | 5336.7 | 4958.8 | 4642.6 |
| 24805.7 | 50° | 23062.8 | 19445.9 | 8390.7 | 5413.8 | 5375.3 | 5745.5 | 5575.8 | 5120.8 | 4688.9 | 4284.0 |
| 26618.1 | 52.5° | 24466.4 | 20147.7 | 7122.1 | 4874.0 | 5178.6 | 5722.3 | 5475.5 | 4974.3 | 4446.0 | 4021.8 |
| 28322.4 | 55° | 25657.9 | 20510.1 | 5899.7 | 4411.3 | 4893.3 | 5525.7 | 5356.0 | 4800.7 | 4102.8 | 3651.6 |
| 29490.8 | 57.5° | 26336.6 | 20217.1 | 4881.7 | 3956.3 | 4500.0 | 5201.8 | 5151.6 | 4430.6 | 3694.1 | 3347.0 |
| 29718.3 | 60° | 26043.5 | 19029.4 | 4048.8 | 3559.1 | 4125.9 | 4850.9 | 4796.9 | 4064.2 | 3381.7 | 3054.0 |
| 28499.8 | 62.5° | 24427.8 | 16765.9 | 3389.4 | 3212.1 | 3786.6 | 4492.3 | 4442.1 | 3782.7 | 3142.7 | 2826.5 |
| 25264.6 | 65° | 21173.4 | 13638.7 | 2876.6 | 2922.9 | 3443.4 | 4060.4 | 4133.6 | 3547.5 | 2953.7 | 2645.2 |
| 19546.1 | 67.5° | 16149.0 | 9879.1 | 2475.6 | 2672.2 | 3107.9 | 3636.2 | 3848.3 | 3377.9 | 2795.6 | 2502.6 |
| 11309.7 | 70° | 9204.3 | 5610.5 | 2136.2 | 2429.3 | 2811.0 | 3242.9 | 3628.5 | 3242.9 | 2625.9 | 2383.0 |
| 4237.8 | 72.5° | 3489.7 | 2575.8 | 1847.0 | 2186.4 | 2525.7 | 2911.3 | 3385.6 | 3030.8 | 2429.3 | 2248.1 |
| 2190.2 | 75° | 1862.5 | 1569.4 | 1554.0 | 1901.0 | 2197.9 | 2587.4 | 3081.0 | 2822.6 | 2282.8 | 2375.3 |
| 1515.4 | 77.5° | 1268.6 | 1110.5 | 1299.5 | 1627.2 | 1839.3 | 2228.8 | 2757.0 | 2506.4 | 1978.1 | 1970.4 |
| 1048.8 | 80° | 879.2 | 786.6 | 1056.5 | 1311.0 | 1422.9 | 1874.0 | 2406.2 | 2151.7 | 1611.8 | 1503.8 |
| 647.8 | 82.5° | 528.3 | 512.8 | 790.5 | 979.4 | 1006.4 | 1446.0 | 1993.6 | 1804.6 | 1318.8 | 1149.1 |
| 385.6 | 85° | 289.2 | 304.6 | 505.1 | 574.5 | 586.1 | 1010.3 | 1561.7 | 1395.9 | 1014.1 | 852.2 |
| 138.8 | 87.5° | 81.0 | 104.1 | 185.1 | 227.5 | 281.5 | 524.4 | 929.3 | 829.0 | 509.0 | 354.8 |
| 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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180°
9505.1
10203.0
10646.5
10773.7
10704.3
10542.3
10318.7
9940.8
9528.2
9266.0
9050.1
8811.0
8544.9
8155.5
7650.3
7010.2
6281.4
5552.7
4985.8
4607.9
4249.3
3975.5
3613.1
3300.7
3007.7
2776.3
2595.1
2456.3
2352.2
2217.2
2452.4
1816.2
1438.3
1156.8
859.9
354.8
0.0

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