

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: P951724

Luminaire Tested: **GALN-SB5D-750-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951724
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-SB5D-750-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54054 lumens
Efficiency: N/A
Efficacy: 148.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

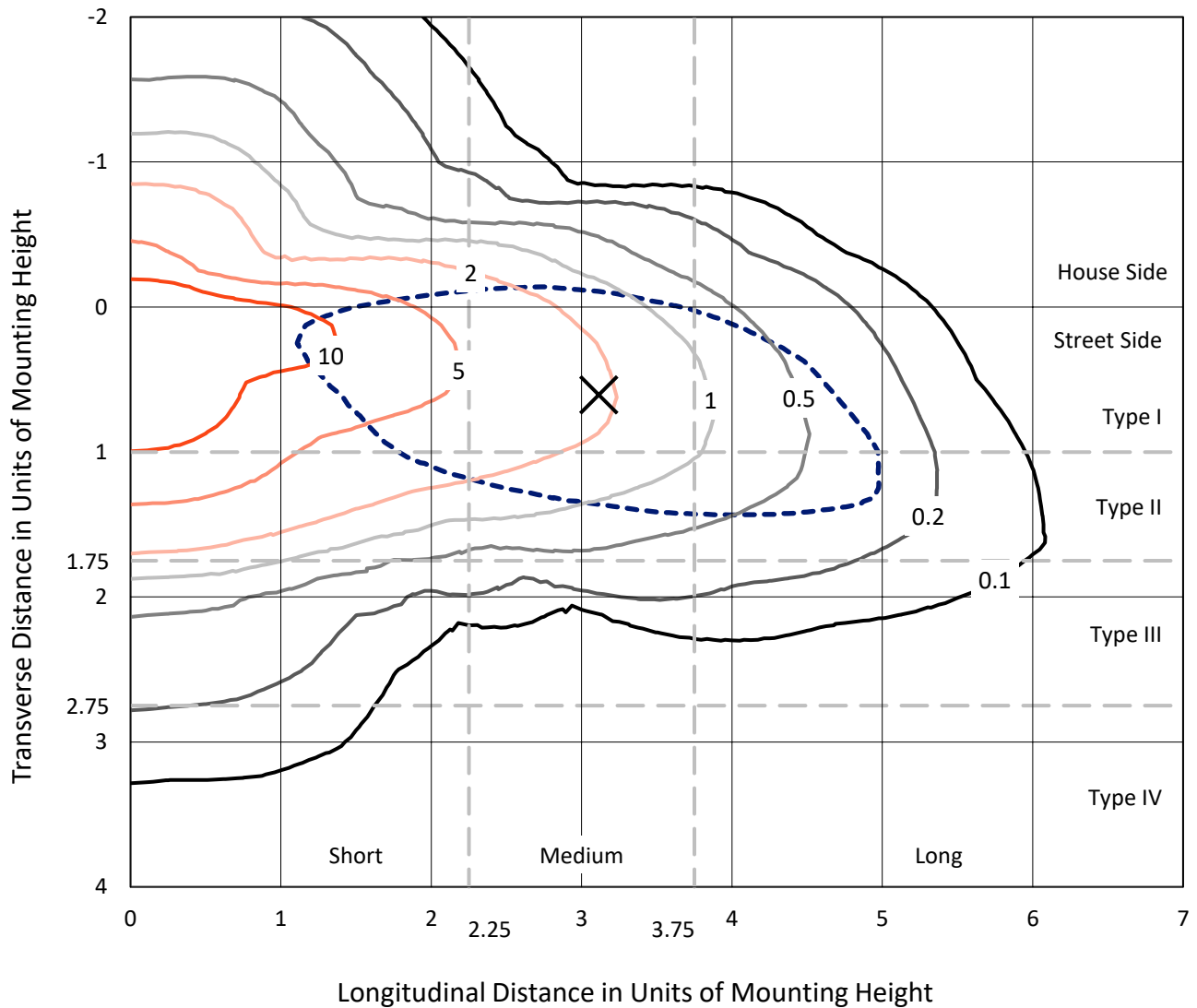
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

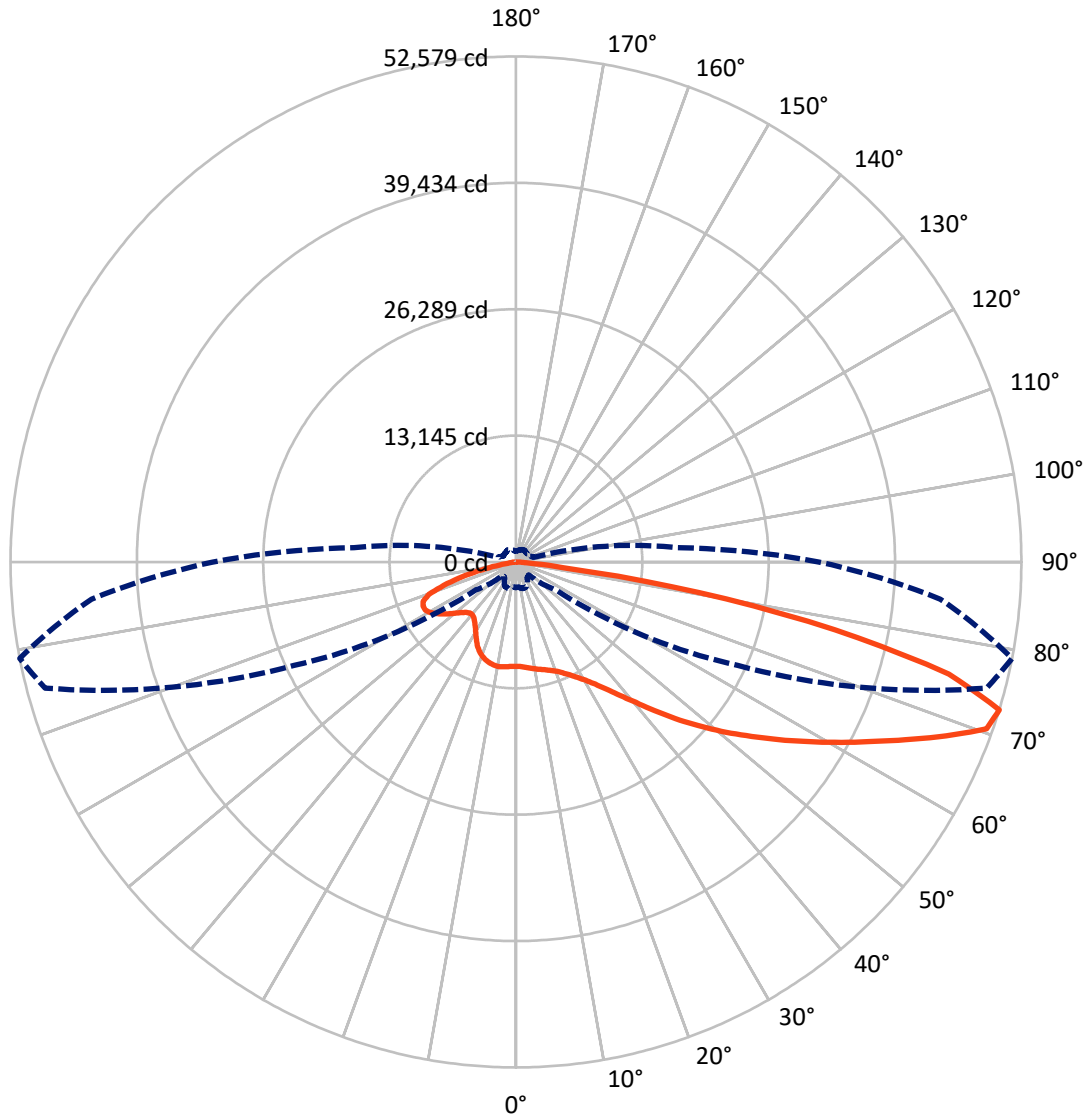
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.4 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 | 11894.9 | 0.0 | 11894.9 |
| | % Fixture | 22.0 | 0.0 | 22.0 |
| Street Side | Lumens | 42159.2 | 0.0 | 42159.2 |
| | % Fixture | 78.0 | 0.0 | 78.0 |
| Total | Lumens | 54054.0 | 0.0 | 54054.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 984.9 | 1.8 |
| 10°-20° | 2575.1 | 4.8 |
| 20°-30° | 4155.2 | 7.7 |
| 30°-40° | 6236.4 | 11.5 |
| 40°-50° | 8846.7 | 16.4 |
| 50°-60° | 11172.1 | 20.7 |
| 60°-70° | 11346.8 | 21.0 |
| 70°-80° | 7733.4 | 14.3 |
| 80°-90° | 1003.3 | 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° | 54054.0 | 100.0 |
| 0°-180° | 54054.0 | 100.0 |

Coefficient of Utilization



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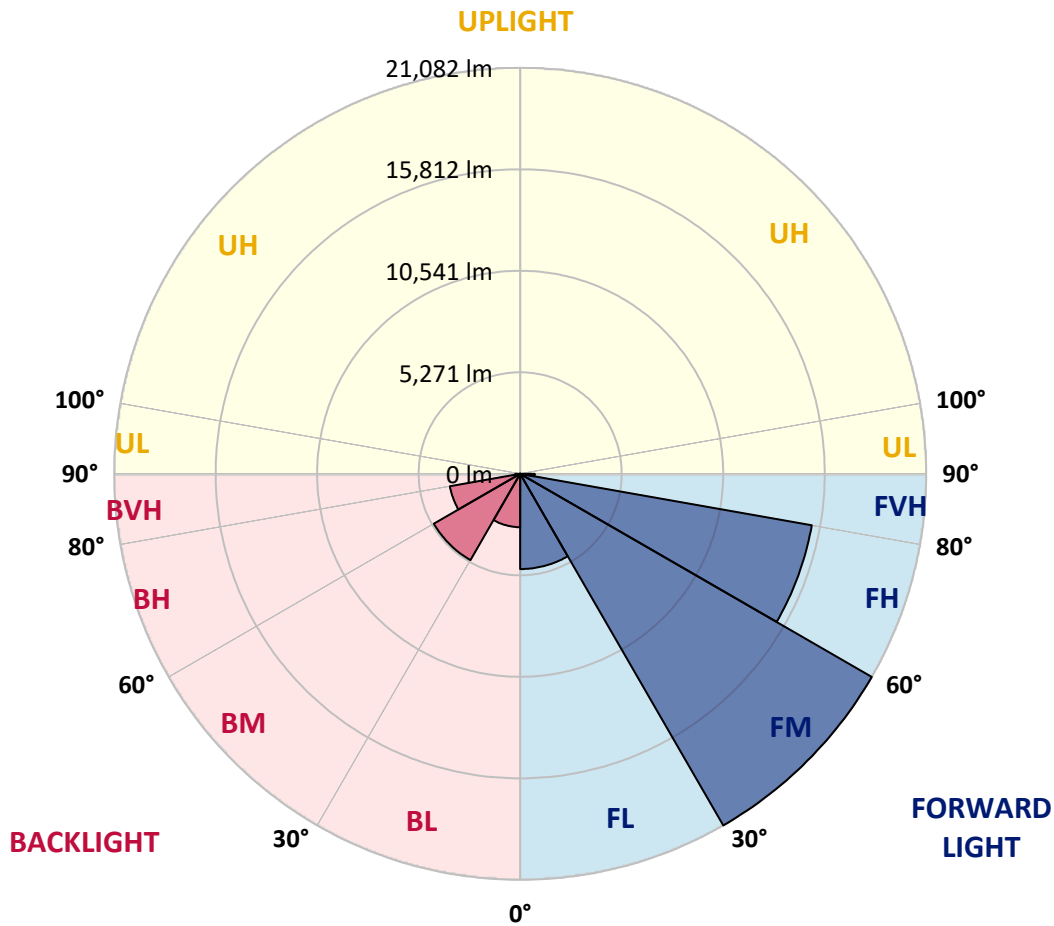
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4944.6 | 9.1 | | | |
| FM (30°-60°) | 21082.2 | 39.0 | | | |
| FH (60°-80°) | 15376.5 | 28.4 | | | G5 |
| FVH (80°-90°) | 755.8 | 1.4 | | | G5 |
| BL (0°-30°) | 2770.7 | 5.1 | B4/5000 | | |
| BM (30°-60°) | 5173.0 | 9.6 | B4/8500 | | |
| BH (60°-80°) | 3703.7 | 6.9 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 247.5 | 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-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 79° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10850.8 | 10850.8 | 10850.8 | 10850.8 | 10850.8 | 10850.8 | 10850.8 | 10850.8 | 10850.8 | 10850.8 |
| 2.5° | 10856.5 | 10805.1 | 10836.5 | 10825.1 | 10839.4 | 10856.5 | 10862.3 | 10870.8 | 10899.4 | 10896.6 |
| 5° | 10833.7 | 10782.2 | 10825.1 | 10810.8 | 10848.0 | 10888.0 | 10922.3 | 10953.8 | 10999.5 | 11019.5 |
| 7.5° | 10785.1 | 10750.8 | 10793.6 | 10836.5 | 10905.2 | 10965.2 | 11013.8 | 11085.3 | 11151.0 | 11162.5 |
| 10° | 10502.0 | 10476.3 | 10576.3 | 10687.8 | 10876.6 | 11039.5 | 11145.3 | 11228.2 | 11299.7 | 11311.2 |
| 12.5° | 10207.5 | 10176.0 | 10287.6 | 10439.1 | 10745.0 | 11039.5 | 11262.6 | 11371.2 | 11434.1 | 11471.3 |
| 15° | 10158.9 | 10133.2 | 10196.1 | 10327.6 | 10582.1 | 10962.3 | 11342.6 | 11542.8 | 11597.1 | 11640.0 |
| 17.5° | 10393.3 | 10344.7 | 10370.5 | 10416.2 | 10564.9 | 10890.9 | 11405.5 | 11737.2 | 11820.1 | 11865.9 |
| 20° | 10936.6 | 10868.0 | 10828.0 | 10736.5 | 10710.7 | 10902.3 | 11399.8 | 11971.6 | 12080.3 | 12137.5 |
| 22.5° | 11660.0 | 11614.2 | 11528.5 | 11296.9 | 11045.3 | 11042.4 | 11508.5 | 12271.9 | 12474.9 | 12529.2 |
| 25° | 12534.9 | 12466.3 | 12357.6 | 12043.1 | 11559.9 | 11319.7 | 11691.4 | 12655.0 | 12995.3 | 13009.6 |
| 27.5° | 13541.4 | 13438.4 | 13289.8 | 12875.2 | 12223.3 | 11754.3 | 11971.6 | 13095.3 | 13592.8 | 13587.1 |
| 30° | 14602.2 | 14499.2 | 14342.0 | 13838.7 | 13018.1 | 12340.5 | 12360.5 | 13570.0 | 14301.9 | 14270.5 |
| 32.5° | 15377.0 | 15299.8 | 15268.4 | 14879.5 | 13933.1 | 13032.4 | 12806.5 | 14096.1 | 15176.9 | 15148.3 |
| 35° | 15971.7 | 15871.7 | 15908.8 | 15711.5 | 14931.0 | 13807.3 | 13352.7 | 14722.2 | 16240.5 | 16237.6 |
| 37.5° | 16560.7 | 16472.1 | 16503.5 | 16372.0 | 15854.5 | 14790.9 | 14018.9 | 15488.5 | 17558.6 | 17621.5 |
| 40° | 17098.3 | 17003.9 | 17129.7 | 17006.8 | 16572.2 | 15837.3 | 14776.6 | 16354.9 | 19085.4 | 19205.5 |
| 42.5° | 17421.4 | 17347.0 | 17555.8 | 17558.6 | 17195.5 | 16720.9 | 15608.6 | 17309.9 | 20852.5 | 21121.2 |
| 45° | 17532.9 | 17507.1 | 17821.7 | 17887.4 | 17747.3 | 17232.7 | 16357.7 | 18350.6 | 22756.7 | 23237.1 |
| 47.5° | 17412.8 | 17364.2 | 17798.8 | 18041.8 | 18153.3 | 17472.8 | 16978.2 | 19477.2 | 24701.0 | 25404.4 |
| 50° | 16806.6 | 16712.3 | 17358.5 | 17870.3 | 18267.7 | 17630.1 | 17604.4 | 20778.1 | 26911.2 | 27680.3 |
| 52.5° | 15717.3 | 15645.8 | 16380.6 | 17269.8 | 18016.1 | 17707.3 | 18307.7 | 22199.2 | 29009.9 | 30004.9 |
| 55° | 14324.8 | 14230.5 | 15039.6 | 16200.5 | 17389.9 | 17681.6 | 19011.1 | 23788.9 | 31486.0 | 32495.3 |
| 57.5° | 12117.5 | 11928.8 | 12952.4 | 14324.8 | 16369.2 | 17650.1 | 19743.1 | 25370.1 | 34002.1 | 35211.6 |
| 60° | 8898.0 | 8617.8 | 9873.0 | 11499.9 | 14373.4 | 17344.2 | 20649.5 | 27142.8 | 37021.5 | 38110.8 |
| 62.5° | 5180.9 | 5018.0 | 5838.6 | 7356.8 | 10833.7 | 15542.8 | 21158.4 | 29204.3 | 39989.4 | 41133.1 |
| 65° | 4023.0 | 3977.2 | 4048.7 | 4165.9 | 6030.1 | 11637.1 | 19588.7 | 31214.4 | 43763.6 | 44564.2 |
| 67.5° | 3679.8 | 3645.5 | 3677.0 | 3456.8 | 3059.4 | 6481.9 | 15497.1 | 31723.3 | 47806.5 | 48292.6 |
| 70° | 3271.0 | 3230.9 | 3333.9 | 3145.2 | 2407.5 | 2947.9 | 10013.1 | 29876.2 | 51023.2 | 51935.3 |
| 72.5° | 2664.8 | 2619.1 | 2859.2 | 2773.5 | 2027.2 | 1892.8 | 5029.4 | 25487.3 | 50685.8 | 52578.6 |
| 75° | 2047.2 | 2021.5 | 2307.4 | 2378.9 | 1652.6 | 1489.7 | 2413.2 | 18945.3 | 44604.2 | 46511.3 |
| 77.5° | 1589.7 | 1569.7 | 1715.5 | 1975.7 | 1332.4 | 1155.1 | 1483.9 | 12017.4 | 33613.3 | 33947.8 |
| 80° | 1192.3 | 1135.1 | 1269.5 | 1529.7 | 1037.9 | 843.5 | 1006.5 | 7008.0 | 21247.0 | 19259.9 |
| 82.5° | 746.3 | 717.7 | 829.2 | 1020.7 | 732.0 | 580.4 | 654.8 | 3871.4 | 8514.8 | 5015.1 |
| 85° | 426.0 | 414.6 | 451.8 | 583.3 | 397.4 | 334.5 | 374.6 | 1709.8 | 1555.4 | 1069.4 |
| 87.5° | 171.6 | 165.8 | 205.9 | 260.2 | 145.8 | 122.9 | 131.5 | 411.7 | 343.1 | 317.4 |
| 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° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 10850.8 | 0° | 10850.8 | 10850.8 | 10850.8 | 10850.8 | 10850.8 | 10850.8 | 10850.8 | 10850.8 | 10850.8 | 10850.8 |
| 10893.7 | 2.5° | 10882.3 | 10882.3 | 10842.2 | 10779.3 | 10707.9 | 10662.1 | 10587.8 | 10567.8 | 10490.6 | 10467.7 |
| 10990.9 | 5° | 11013.8 | 10990.9 | 10868.0 | 10690.7 | 10447.7 | 10224.7 | 9978.8 | 9824.4 | 9607.1 | 9529.9 |
| 11182.5 | 7.5° | 11179.6 | 11116.7 | 10905.2 | 10516.3 | 10007.3 | 9507.0 | 8986.6 | 8592.0 | 8214.6 | 8080.2 |
| 11339.8 | 10° | 11331.2 | 11242.5 | 10882.3 | 10201.8 | 9321.1 | 8454.8 | 7625.6 | 7045.2 | 6604.9 | 6424.7 |
| 11514.2 | 12.5° | 11482.7 | 11319.7 | 10730.7 | 9678.5 | 8346.1 | 7171.0 | 6287.5 | 5835.7 | 5564.1 | 5346.8 |
| 11657.1 | 15° | 11625.7 | 11396.9 | 10496.3 | 8978.0 | 7276.8 | 6084.5 | 5432.6 | 5072.3 | 4855.0 | 4712.0 |
| 11865.9 | 17.5° | 11791.5 | 11462.7 | 10144.6 | 8088.8 | 6258.9 | 5332.5 | 4800.7 | 4583.4 | 4540.5 | 4523.3 |
| 12151.8 | 20° | 12023.1 | 11522.7 | 9681.4 | 7093.8 | 5509.8 | 4732.0 | 4457.6 | 4437.5 | 4434.7 | 4426.1 |
| 12494.9 | 22.5° | 12271.9 | 11594.2 | 9069.5 | 6190.3 | 4872.1 | 4357.5 | 4308.9 | 4268.8 | 4243.1 | 4240.3 |
| 12909.5 | 25° | 12566.4 | 11617.1 | 8303.2 | 5449.7 | 4328.9 | 4180.2 | 4123.0 | 4063.0 | 4045.8 | 4045.8 |
| 13381.3 | 27.5° | 12852.3 | 11539.9 | 7411.2 | 4806.4 | 4023.0 | 4017.2 | 3942.9 | 3922.9 | 3920.0 | 3928.6 |
| 13918.8 | 30° | 13138.2 | 11394.1 | 6524.8 | 4211.7 | 3845.7 | 3845.7 | 3819.9 | 3834.2 | 3845.7 | 3874.3 |
| 14656.5 | 32.5° | 13524.2 | 11239.7 | 5784.2 | 3771.3 | 3691.3 | 3662.7 | 3688.4 | 3717.0 | 3728.5 | 3765.6 |
| 15625.8 | 35° | 14090.3 | 11131.0 | 5195.2 | 3531.2 | 3531.2 | 3494.0 | 3508.3 | 3502.6 | 3476.8 | 3459.7 |
| 16798.1 | 37.5° | 14839.5 | 11125.3 | 4709.2 | 3419.7 | 3396.8 | 3391.1 | 3393.9 | 3356.8 | 3256.7 | 3136.6 |
| 18216.2 | 40° | 15740.1 | 11279.7 | 4334.6 | 3342.5 | 3325.3 | 3359.6 | 3342.5 | 3242.4 | 2967.9 | 2759.2 |
| 19960.4 | 42.5° | 16949.6 | 11720.0 | 4094.4 | 3248.1 | 3299.6 | 3342.5 | 3273.8 | 2927.9 | 2742.0 | 2601.9 |
| 21947.5 | 45° | 18373.5 | 12434.8 | 3971.5 | 3148.0 | 3251.0 | 3302.4 | 2970.8 | 2819.2 | 2670.5 | 2501.8 |
| 24114.9 | 47.5° | 19986.1 | 13335.5 | 3942.9 | 3053.7 | 3142.3 | 3173.8 | 2842.1 | 2773.5 | 2604.8 | 2421.8 |
| 26293.6 | 50° | 21741.7 | 14402.0 | 4020.1 | 2942.2 | 2985.0 | 2876.4 | 2799.2 | 2736.3 | 2561.9 | 2381.7 |
| 28526.7 | 52.5° | 23557.3 | 15577.2 | 4174.5 | 2790.6 | 2827.8 | 2707.7 | 2782.0 | 2727.7 | 2536.1 | 2293.1 |
| 30834.1 | 55° | 25341.5 | 16760.9 | 4323.2 | 2613.3 | 2667.7 | 2556.2 | 2733.4 | 2693.4 | 2418.9 | 2144.4 |
| 33295.9 | 57.5° | 27154.2 | 17938.9 | 4469.0 | 2456.1 | 2513.3 | 2410.3 | 2656.2 | 2601.9 | 2287.4 | 2007.2 |
| 35983.6 | 60° | 29038.5 | 19082.6 | 4537.6 | 2304.5 | 2344.6 | 2276.0 | 2539.0 | 2444.7 | 2138.7 | 1867.1 |
| 38625.5 | 62.5° | 30802.6 | 20034.7 | 4426.1 | 2153.0 | 2178.7 | 2150.2 | 2384.6 | 2258.8 | 1990.0 | 1709.8 |
| 41379.0 | 65° | 32572.5 | 20600.8 | 4083.0 | 2004.3 | 2010.0 | 1995.8 | 2167.3 | 2058.7 | 1815.6 | 1572.6 |
| 43789.3 | 67.5° | 34176.5 | 20918.2 | 3536.9 | 1844.2 | 1829.9 | 1824.2 | 1964.3 | 1841.4 | 1646.9 | 1435.3 |
| 45622.1 | 70° | 34516.8 | 20111.9 | 2702.0 | 1655.5 | 1655.5 | 1641.2 | 1741.3 | 1615.5 | 1461.1 | 1289.5 |
| 44309.7 | 72.5° | 31526.0 | 16918.1 | 1918.6 | 1441.1 | 1463.9 | 1435.3 | 1518.3 | 1412.5 | 1272.4 | 1158.0 |
| 38188.0 | 75° | 25421.5 | 12406.3 | 1395.3 | 1220.9 | 1260.9 | 1212.3 | 1289.5 | 1215.2 | 1095.1 | 1092.2 |
| 26316.5 | 77.5° | 17467.1 | 7671.3 | 1012.2 | 1006.5 | 1035.0 | 972.1 | 1060.8 | 1020.7 | 912.1 | 863.5 |
| 11454.1 | 80° | 7454.0 | 3059.4 | 737.7 | 777.7 | 777.7 | 720.5 | 823.5 | 834.9 | 740.5 | 717.7 |
| 2210.2 | 82.5° | 1483.9 | 869.2 | 517.5 | 534.7 | 503.2 | 486.1 | 583.3 | 646.2 | 892.1 | 992.2 |
| 666.2 | 85° | 446.0 | 320.2 | 311.7 | 291.6 | 257.3 | 260.2 | 343.1 | 649.0 | 800.6 | 457.5 |
| 220.2 | 87.5° | 122.9 | 80.1 | 82.9 | 65.8 | 54.3 | 71.5 | 117.2 | 491.8 | 268.8 | 114.4 |
| 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°
10850.8
10504.9
9587.0
8097.4
6464.7
5418.3
4737.8
4534.8
4454.7
4271.7
4063.0
3951.5
3894.3
3797.1
3499.7
3139.4
2753.5
2596.2
2490.4
2407.5
2361.7
2276.0
2130.1
2001.5
1858.5
1707.0
1555.4
1418.2
1283.8
1123.7
983.6
809.2
717.7
995.0
394.6
97.2
0.0

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