

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: STREETWORKS

Report Number: P851653

Luminaire Tested: **GLAN-SB9D-727-U-SL4**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P851653
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB9D-727-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 81707 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B5 - U0 - G5

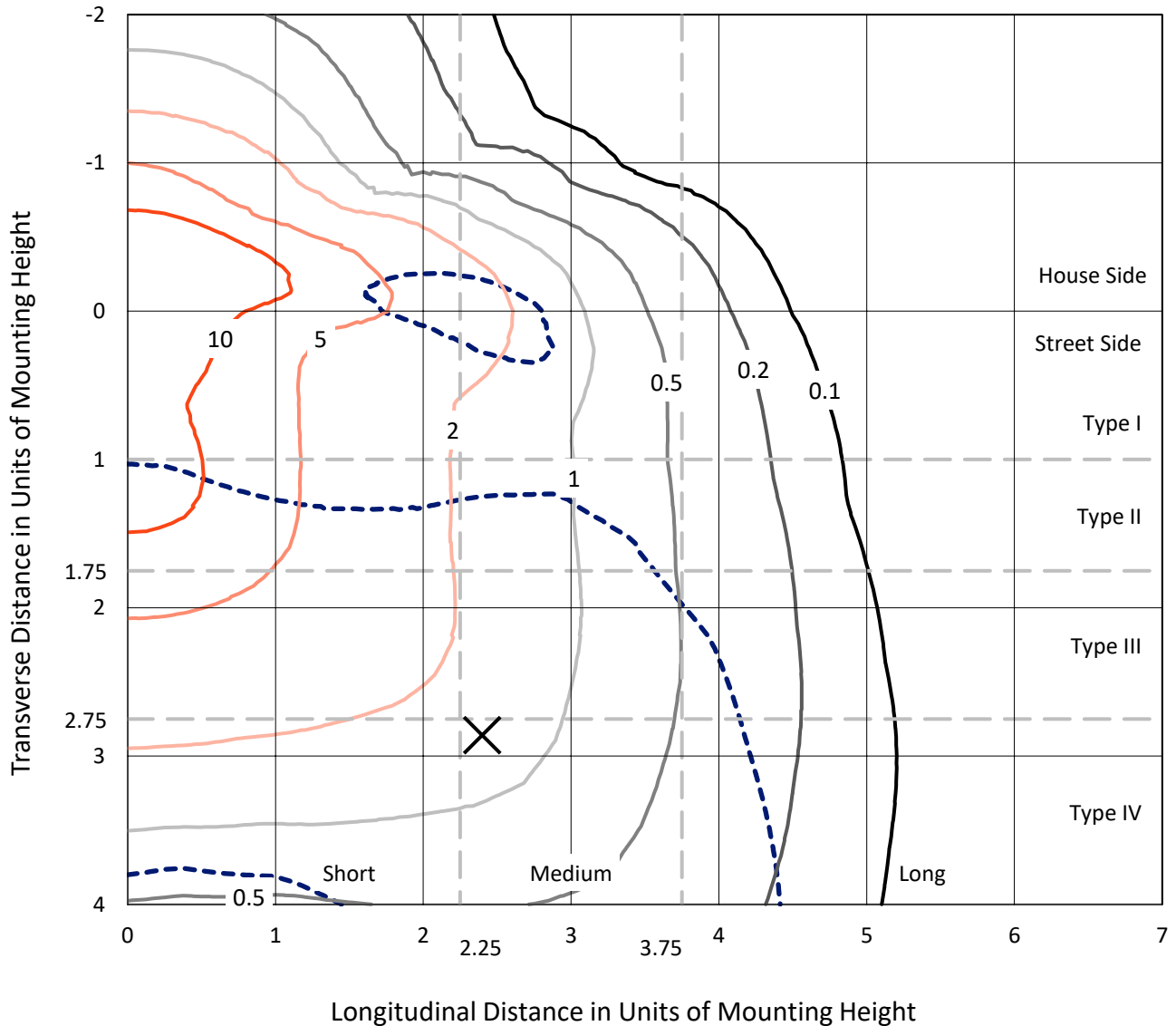
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

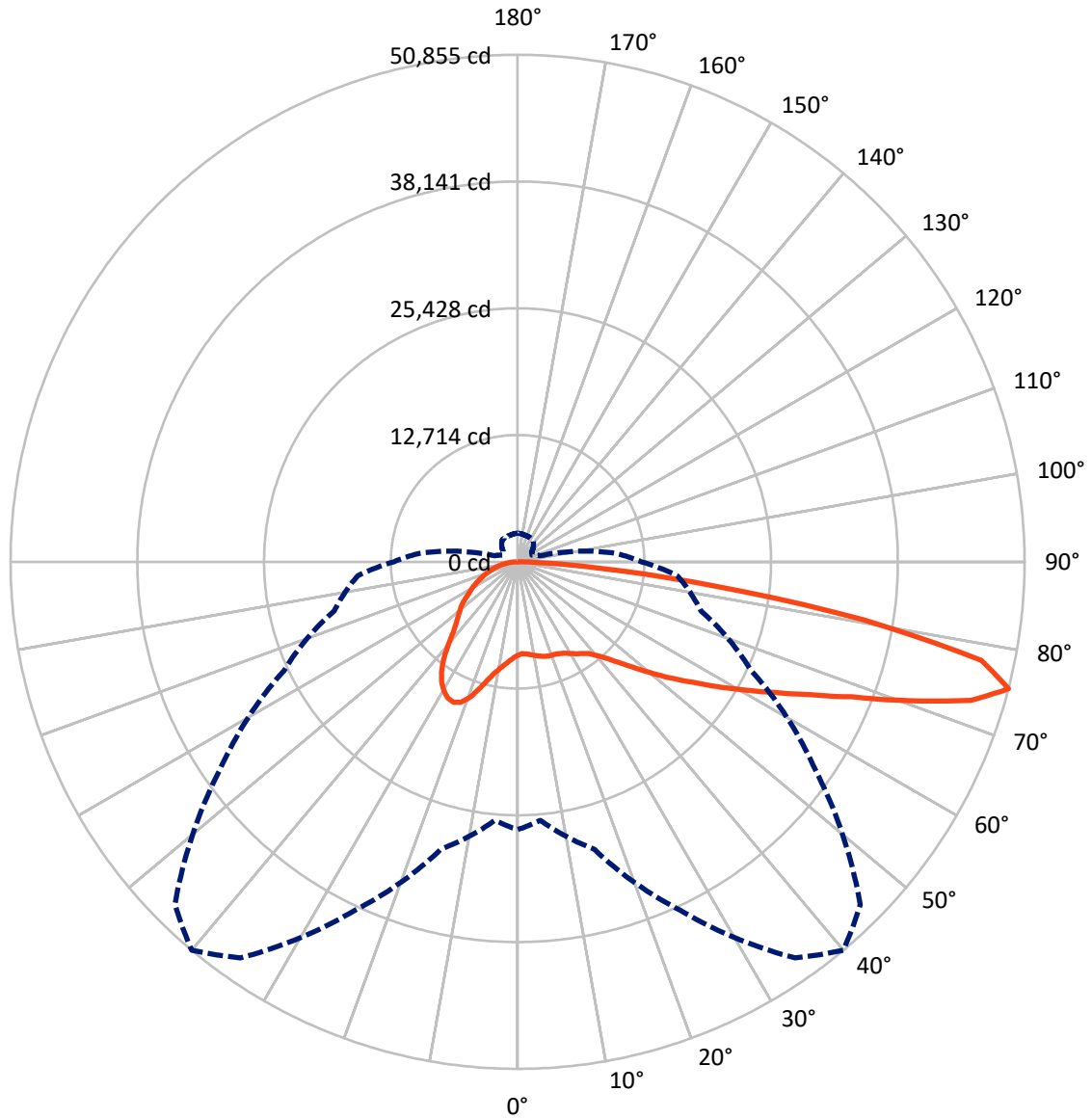
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 25315.6 | 0.0 | 25315.6 |
| | % Fixture | 31.0 | 0.0 | 31.0 |
| Street Side | Lumens | 56391.5 | 0.0 | 56391.5 |
| | % Fixture | 69.0 | 0.0 | 69.0 |
| Total | Lumens | 81707.0 | 0.0 | 81707.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 932.7 | 1.1 |
| 10°-20° | 3131.3 | 3.8 |
| 20°-30° | 5717.5 | 7.0 |
| 30°-40° | 8109.0 | 9.9 |
| 40°-50° | 10949.6 | 13.4 |
| 50°-60° | 14730.1 | 18.0 |
| 60°-70° | 18695.9 | 22.9 |
| 70°-80° | 16967.7 | 20.8 |
| 80°-90° | 2473.4 | 3.0 |
| 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° | 81707.0 | 100.0 |
| 0°-180° | 81707.0 | 100.0 |

Coefficient of Utilization

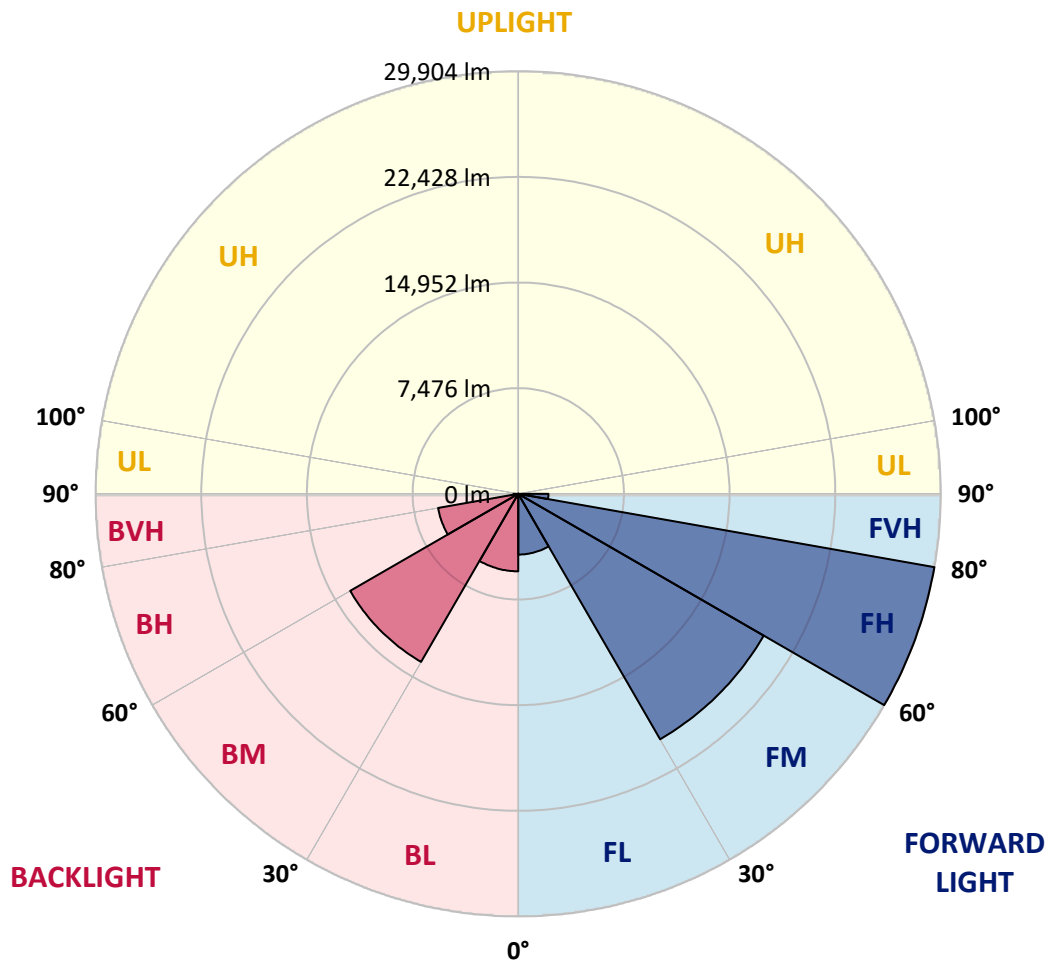


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 4297.9 | 5.3 | | | |
| FM (30°-60°) | 20057.2 | 24.5 | | | |
| FH (60°-80°) | 29903.5 | 36.6 | | | G5 |
| FVH (80°-90°) | 2132.8 | 2.6 | | | G5 |
| BL (0°-30°) | 5483.6 | 6.7 | B5 | | |
| BM (30°-60°) | 13731.4 | 16.8 | B5 | | |
| BH (60°-80°) | 5760.0 | 7.0 | B5 | | G5 |
| BVH (80°-90°) | 340.5 | 0.4 | | | 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 Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 40° | 45° | 55° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 9343.3 | 9343.3 | 9343.3 | 9343.3 | 9343.3 | 9343.3 | 9343.3 | 9343.3 | 9343.3 | 9343.3 |
| 2.5° | 9200.3 | 9252.3 | 9239.3 | 9222.0 | 9222.0 | 9226.3 | 9222.0 | 9252.3 | 9282.6 | 9313.0 |
| 5° | 9295.6 | 9347.6 | 9321.6 | 9300.0 | 9282.6 | 9278.3 | 9265.3 | 9261.0 | 9278.3 | 9317.3 |
| 7.5° | 9482.0 | 9534.0 | 9495.0 | 9456.0 | 9421.3 | 9404.0 | 9386.6 | 9360.6 | 9347.6 | 9369.3 |
| 10° | 9690.0 | 9742.0 | 9694.3 | 9625.0 | 9568.7 | 9547.0 | 9529.7 | 9503.6 | 9486.3 | 9499.3 |
| 12.5° | 9898.0 | 9950.0 | 9885.0 | 9789.7 | 9716.0 | 9703.0 | 9681.3 | 9672.7 | 9668.3 | 9664.0 |
| 15° | 10093.0 | 10136.4 | 10054.0 | 9941.3 | 9863.3 | 9841.7 | 9820.0 | 9833.0 | 9854.7 | 9880.7 |
| 17.5° | 10244.7 | 10288.0 | 10166.7 | 10019.4 | 9945.7 | 9937.0 | 9924.0 | 9967.3 | 10028.0 | 10093.0 |
| 20° | 10383.4 | 10426.7 | 10270.7 | 10071.4 | 9984.7 | 9984.7 | 9989.0 | 10080.0 | 10166.7 | 10262.0 |
| 22.5° | 10578.4 | 10613.1 | 10422.4 | 10149.4 | 10023.7 | 10032.4 | 10067.0 | 10158.0 | 10266.4 | 10396.4 |
| 25° | 10868.7 | 10894.7 | 10660.7 | 10296.7 | 10153.7 | 10179.7 | 10210.0 | 10253.4 | 10357.4 | 10509.1 |
| 27.5° | 11336.8 | 11358.4 | 11050.8 | 10556.7 | 10340.0 | 10383.4 | 10426.7 | 10396.4 | 10444.0 | 10574.1 |
| 30° | 11995.5 | 12008.5 | 11618.5 | 10964.1 | 10656.4 | 10678.1 | 10686.7 | 10561.1 | 10470.0 | 10574.1 |
| 32.5° | 12775.5 | 12771.2 | 12307.5 | 11458.1 | 11016.1 | 10994.4 | 10920.7 | 10673.7 | 10461.4 | 10552.4 |
| 35° | 13984.6 | 13937.0 | 13338.9 | 12151.5 | 11423.4 | 11289.1 | 11115.8 | 10799.4 | 10504.7 | 10530.7 |
| 37.5° | 15986.8 | 15839.4 | 15011.7 | 13286.9 | 12030.2 | 11687.8 | 11432.1 | 11003.1 | 10600.1 | 10522.1 |
| 40° | 18244.6 | 18058.2 | 17148.2 | 14842.7 | 12940.2 | 12389.8 | 11978.2 | 11293.4 | 10756.1 | 10561.1 |
| 42.5° | 20922.8 | 20658.4 | 19679.0 | 16675.8 | 14093.0 | 13295.6 | 12675.9 | 11661.8 | 10985.7 | 10686.7 |
| 45° | 24212.0 | 23861.0 | 22474.2 | 18742.9 | 15544.7 | 14483.0 | 13655.3 | 12220.8 | 11336.8 | 10929.4 |
| 47.5° | 27535.9 | 27622.6 | 25650.8 | 21109.1 | 17286.8 | 15947.8 | 14881.7 | 13061.6 | 11848.1 | 11319.4 |
| 50° | 31067.8 | 31128.5 | 28810.0 | 23731.0 | 19263.0 | 17603.2 | 16259.8 | 14002.0 | 12558.9 | 11874.1 |
| 52.5° | 33824.0 | 33832.6 | 31678.8 | 26474.1 | 21321.5 | 19423.3 | 17746.2 | 15076.7 | 13382.2 | 12610.9 |
| 55° | 35548.8 | 35527.1 | 33689.6 | 29070.0 | 23687.6 | 21334.5 | 19393.0 | 16298.8 | 14387.6 | 13477.6 |
| 57.5° | 36801.2 | 36736.2 | 35076.4 | 31301.8 | 26209.8 | 23592.3 | 21256.5 | 17685.5 | 15575.1 | 14509.0 |
| 60° | 37277.9 | 37238.9 | 36016.8 | 33230.3 | 28862.0 | 26088.4 | 23405.9 | 19237.0 | 16922.8 | 15726.7 |
| 62.5° | 37459.9 | 37533.6 | 36939.9 | 35098.1 | 31700.5 | 28853.3 | 25767.8 | 21091.8 | 18439.6 | 17104.8 |
| 65° | 38101.3 | 38235.6 | 38114.3 | 37542.2 | 34907.4 | 32090.5 | 28901.0 | 23297.6 | 20095.0 | 18582.6 |
| 67.5° | 39371.0 | 39505.4 | 39557.4 | 40467.4 | 38825.0 | 36125.1 | 32809.9 | 26045.1 | 22032.2 | 20116.7 |
| 70° | 39340.7 | 39301.7 | 40220.4 | 42794.6 | 43730.7 | 41711.2 | 38079.6 | 29425.3 | 24342.0 | 21390.8 |
| 72.5° | 35808.8 | 35496.8 | 37667.9 | 42768.6 | 47812.9 | 47544.2 | 44515.0 | 33785.0 | 26335.5 | 21546.8 |
| 75° | 26864.2 | 26032.1 | 29867.4 | 38543.3 | 48493.3 | 50855.1 | 48606.0 | 36489.2 | 25863.1 | 19037.6 |
| 77.5° | 11488.5 | 10652.1 | 15172.0 | 28532.6 | 43401.3 | 47539.9 | 44853.1 | 31834.8 | 20645.4 | 12589.2 |
| 80° | 3007.5 | 3003.2 | 4585.0 | 12935.9 | 29516.3 | 35106.7 | 30799.1 | 20558.7 | 11796.1 | 4498.3 |
| 82.5° | 1243.8 | 1213.4 | 1685.8 | 5031.3 | 14422.3 | 19700.7 | 16077.8 | 9170.0 | 4260.0 | 1217.7 |
| 85° | 463.7 | 459.4 | 819.1 | 1737.8 | 5087.7 | 8125.6 | 5880.7 | 2344.5 | 1061.7 | 593.7 |
| 87.5° | 130.0 | 125.7 | 177.7 | 602.4 | 1239.4 | 1880.8 | 1005.4 | 385.7 | 299.0 | 234.0 |
| 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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 CATALOG NUMBER: GLAN-SB9D-727-U-SL4

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 9343.3 | 0° | 9343.3 | 9343.3 | 9343.3 | 9343.3 | 9343.3 | 9343.3 | 9343.3 | 9343.3 | 9343.3 | 9343.3 |
| 9360.6 | 2.5° | 9373.6 | 9395.3 | 9434.3 | 9464.6 | 9503.6 | 9547.0 | 9607.7 | 9646.7 | 9685.7 | 9711.7 |
| 9382.3 | 5° | 9412.6 | 9460.3 | 9560.0 | 9659.7 | 9776.7 | 9885.0 | 10010.7 | 10101.7 | 10175.4 | 10197.0 |
| 9460.3 | 7.5° | 9499.3 | 9577.3 | 9746.3 | 9915.3 | 10101.7 | 10279.4 | 10461.4 | 10617.4 | 10743.1 | 10790.7 |
| 9599.0 | 10° | 9651.0 | 9755.0 | 9993.3 | 10231.7 | 10478.7 | 10751.7 | 10985.7 | 11211.1 | 11388.8 | 11462.4 |
| 9763.7 | 12.5° | 9841.7 | 9971.7 | 10283.7 | 10613.1 | 10955.4 | 11332.4 | 11635.8 | 11913.1 | 12134.2 | 12233.8 |
| 9993.3 | 15° | 10088.7 | 10257.7 | 10656.4 | 11098.4 | 11601.1 | 12125.5 | 12511.2 | 12818.9 | 13065.9 | 13187.2 |
| 10231.7 | 17.5° | 10357.4 | 10582.7 | 11085.4 | 11752.8 | 12472.2 | 13161.2 | 13611.9 | 13837.3 | 14093.0 | 14210.0 |
| 10452.7 | 20° | 10617.4 | 10894.7 | 11614.1 | 12584.9 | 13542.6 | 14275.0 | 14639.0 | 14699.7 | 14717.0 | 14730.0 |
| 10660.7 | 22.5° | 10886.1 | 11258.8 | 12277.2 | 13633.6 | 14660.7 | 15167.7 | 15219.7 | 14959.7 | 14595.7 | 14426.7 |
| 10864.4 | 25° | 11180.8 | 11674.8 | 13143.9 | 14790.7 | 15622.7 | 15683.4 | 15284.7 | 14652.0 | 13963.0 | 13646.6 |
| 11029.1 | 27.5° | 11466.8 | 12155.8 | 14184.0 | 15895.8 | 16316.1 | 15783.1 | 14925.0 | 14028.0 | 13195.9 | 12862.2 |
| 11146.1 | 30° | 11752.8 | 12706.2 | 15332.4 | 16862.2 | 16632.5 | 15536.1 | 14357.3 | 13356.2 | 12519.9 | 12168.8 |
| 11250.1 | 32.5° | 12043.2 | 13347.6 | 16654.1 | 17559.9 | 16576.1 | 15011.7 | 13650.9 | 12602.2 | 11865.5 | 11497.1 |
| 11341.1 | 35° | 12372.5 | 14136.3 | 17906.6 | 17941.2 | 16199.1 | 14240.3 | 12719.2 | 11700.8 | 11059.4 | 10764.7 |
| 11449.4 | 37.5° | 12801.5 | 15137.4 | 19011.6 | 18036.6 | 15540.4 | 13109.2 | 11562.1 | 10634.7 | 10106.0 | 9971.7 |
| 11609.8 | 40° | 13334.6 | 16342.1 | 19856.7 | 17884.9 | 14565.3 | 11735.5 | 10296.7 | 9555.7 | 9256.6 | 9287.0 |
| 11826.5 | 42.5° | 14028.0 | 17689.9 | 20450.4 | 17494.9 | 13208.9 | 10318.4 | 9187.3 | 8857.9 | 9000.9 | 9122.3 |
| 12151.5 | 45° | 14929.4 | 19089.6 | 20818.8 | 16831.8 | 11674.8 | 9118.0 | 8532.9 | 8610.9 | 8719.3 | 8732.3 |
| 12675.9 | 47.5° | 16082.1 | 20506.7 | 21061.4 | 15830.7 | 10110.4 | 8272.9 | 8116.9 | 8134.2 | 8112.6 | 8021.5 |
| 13460.3 | 50° | 17520.9 | 21884.8 | 21278.1 | 14504.7 | 8779.9 | 7744.2 | 7536.2 | 7475.5 | 7176.5 | 6881.8 |
| 14504.7 | 52.5° | 19159.0 | 23150.2 | 21369.1 | 12857.9 | 7744.2 | 7302.2 | 6964.1 | 6582.8 | 6023.7 | 5932.7 |
| 15817.7 | 55° | 20979.1 | 24320.3 | 21135.1 | 10834.1 | 6873.1 | 6734.5 | 6223.1 | 5763.7 | 5703.1 | 5625.1 |
| 17546.9 | 57.5° | 23154.6 | 25581.4 | 20658.4 | 8576.3 | 5980.4 | 6071.4 | 5573.0 | 5625.1 | 5516.7 | 5395.4 |
| 19770.0 | 60° | 25533.7 | 26885.8 | 19822.0 | 6517.8 | 5057.3 | 5243.7 | 5404.0 | 5399.7 | 5369.4 | 5269.7 |
| 22114.5 | 62.5° | 27674.6 | 27743.9 | 18175.2 | 4992.3 | 4247.0 | 4602.3 | 5040.0 | 5035.7 | 5009.7 | 4953.3 |
| 24563.0 | 65° | 28948.6 | 27613.9 | 15427.7 | 3930.6 | 3579.6 | 4073.6 | 4546.0 | 4580.6 | 4585.0 | 4580.6 |
| 26404.8 | 67.5° | 28723.3 | 26092.8 | 11657.5 | 3128.9 | 3029.2 | 3536.2 | 4056.3 | 4103.9 | 4138.6 | 4147.3 |
| 26638.8 | 70° | 26175.1 | 22751.6 | 7601.2 | 2496.2 | 2539.5 | 3063.9 | 3592.6 | 3640.2 | 3670.6 | 3705.3 |
| 23115.6 | 72.5° | 20402.7 | 16727.8 | 4351.0 | 2019.5 | 2110.5 | 2656.5 | 3133.2 | 3189.6 | 3206.9 | 3271.9 |
| 16086.4 | 75° | 12433.2 | 9837.3 | 2348.8 | 1590.4 | 1733.5 | 2270.8 | 2678.2 | 2743.2 | 2773.5 | 2851.5 |
| 7900.2 | 77.5° | 5911.1 | 4260.0 | 1339.1 | 1239.4 | 1395.4 | 1854.8 | 2262.2 | 2335.8 | 2253.5 | 2296.8 |
| 2179.8 | 80° | 1997.8 | 1581.8 | 845.1 | 944.7 | 1066.1 | 1447.4 | 1811.5 | 1885.1 | 1711.8 | 1703.1 |
| 723.7 | 82.5° | 697.7 | 641.4 | 537.4 | 628.4 | 689.0 | 1035.7 | 1369.4 | 1464.8 | 1274.1 | 1269.8 |
| 325.0 | 85° | 273.0 | 260.0 | 299.0 | 342.4 | 411.7 | 637.0 | 901.4 | 949.1 | 784.4 | 632.7 |
| 95.3 | 87.5° | 56.3 | 60.7 | 73.7 | 78.0 | 125.7 | 221.0 | 325.0 | 398.7 | 316.4 | 268.7 |
| 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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| <u>180°</u> |
|-------------|
| 9343.3 |
| 9694.3 |
| 10205.7 |
| 10795.1 |
| 11466.8 |
| 12233.8 |
| 13178.6 |
| 14205.6 |
| 14764.7 |
| 14474.3 |
| 13694.3 |
| 12901.2 |
| 12207.8 |
| 11544.8 |
| 10829.7 |
| 10067.0 |
| 9391.0 |
| 9235.0 |
| 8818.9 |
| 8090.9 |
| 6920.8 |
| 5963.1 |
| 5638.1 |
| 5373.7 |
| 5235.0 |
| 4931.7 |
| 4580.6 |
| 4156.0 |
| 3722.6 |
| 3297.9 |
| 2860.2 |
| 2262.2 |
| 1685.8 |
| 1209.1 |
| 624.0 |
| 247.0 |
| 0.0 |

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