

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: P851553

Luminaire Tested: **GLAN-SB9C-830-U-SL4**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P851553
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-SB9C-830-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58059 lumens
Efficiency: N/A
Efficacy: 129.1 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

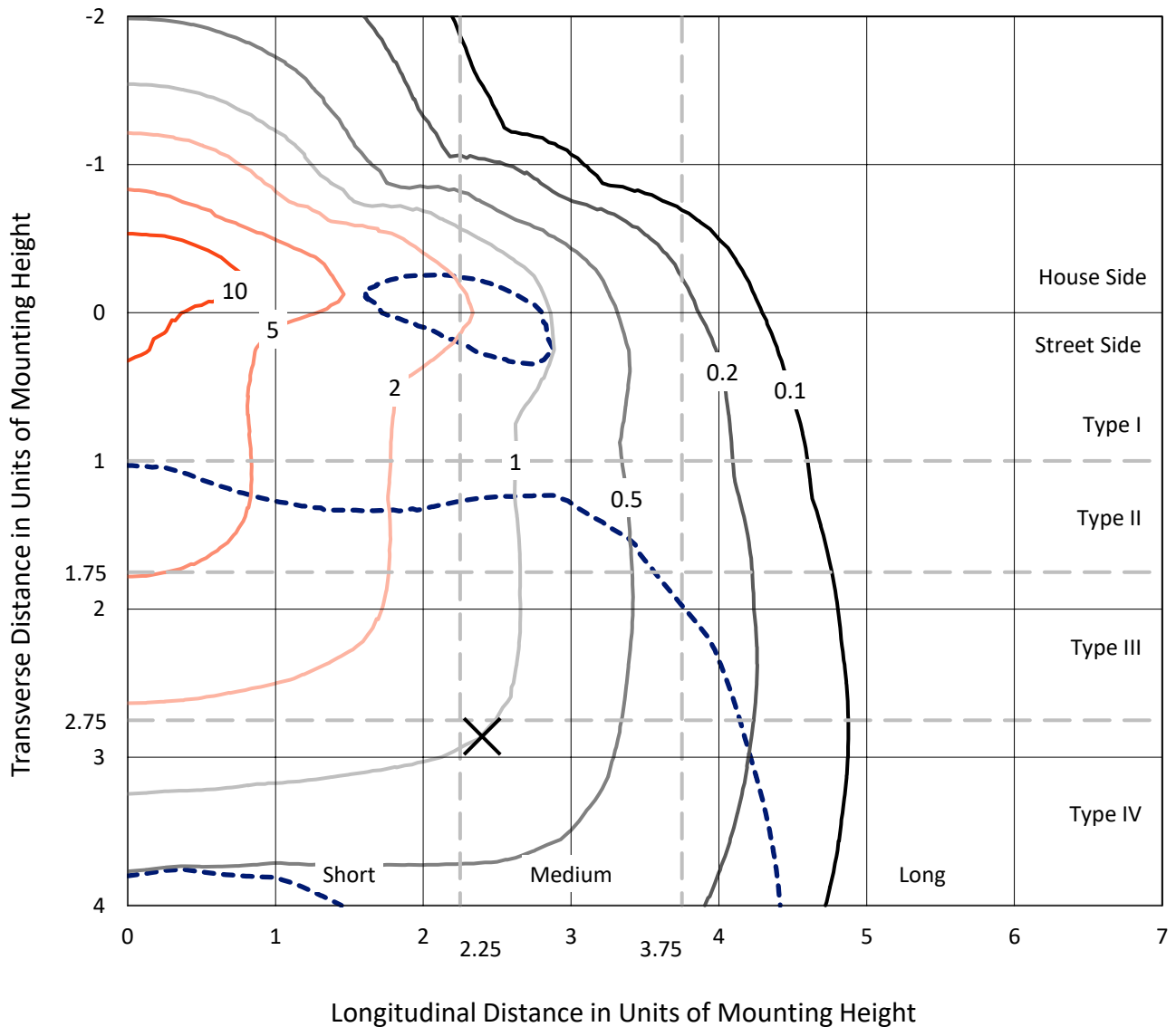
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

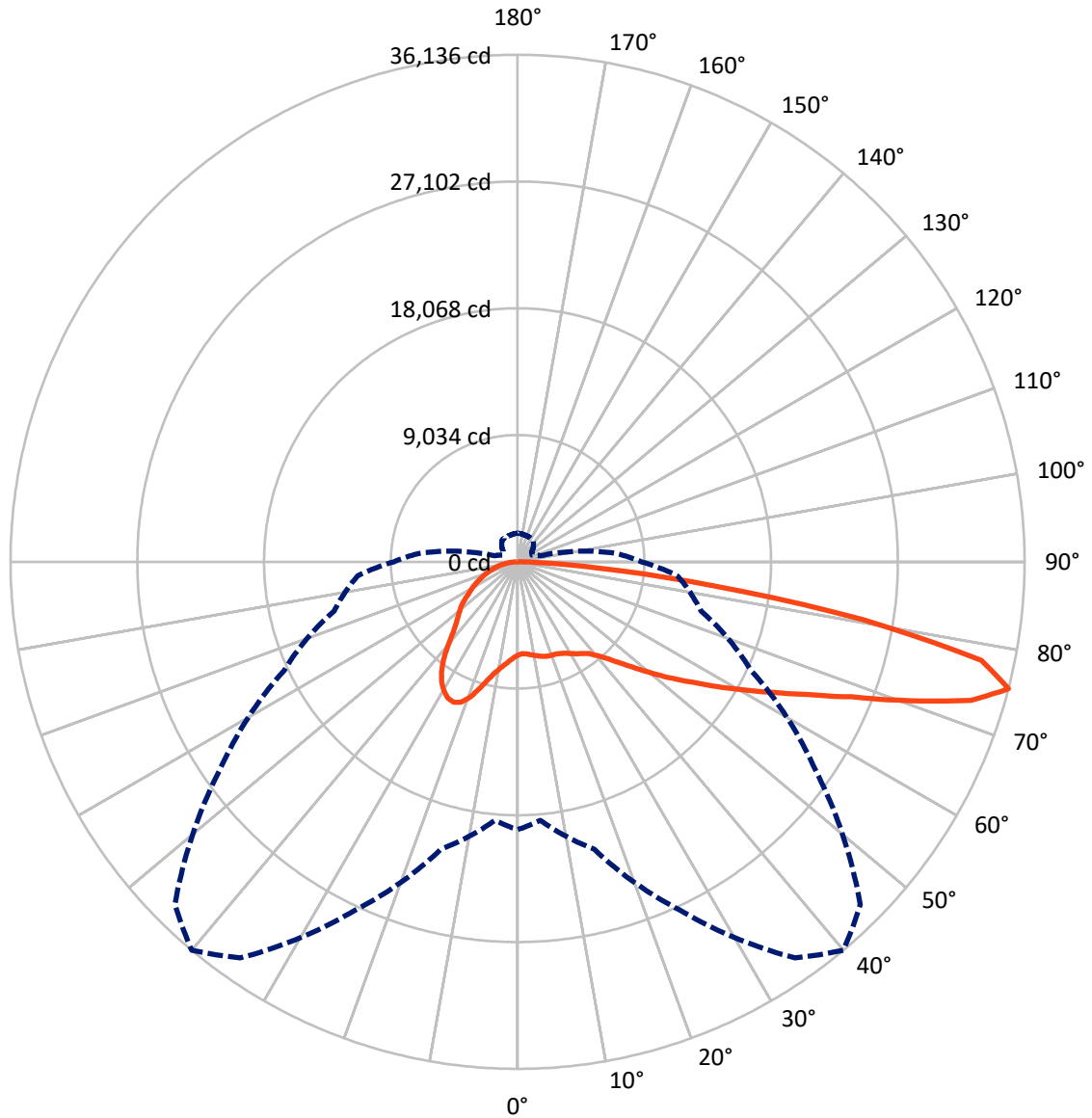
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 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 | 17988.6 | 0.0 | 17988.6 |
| | % Fixture | 31.0 | 0.0 | 31.0 |
| Street Side | Lumens | 40070.4 | 0.0 | 40070.4 |
| | % Fixture | 69.0 | 0.0 | 69.0 |
| Total | Lumens | 58059.0 | 0.0 | 58059.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 662.7 | 1.1 |
| 10°-20° | 2225.0 | 3.8 |
| 20°-30° | 4062.7 | 7.0 |
| 30°-40° | 5762.0 | 9.9 |
| 40°-50° | 7780.5 | 13.4 |
| 50°-60° | 10466.8 | 18.0 |
| 60°-70° | 13284.8 | 22.9 |
| 70°-80° | 12056.8 | 20.8 |
| 80°-90° | 1757.5 | 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° | 58059.0 | 100.0 |
| 0°-180° | 58059.0 | 100.0 |

Coefficient of Utilization

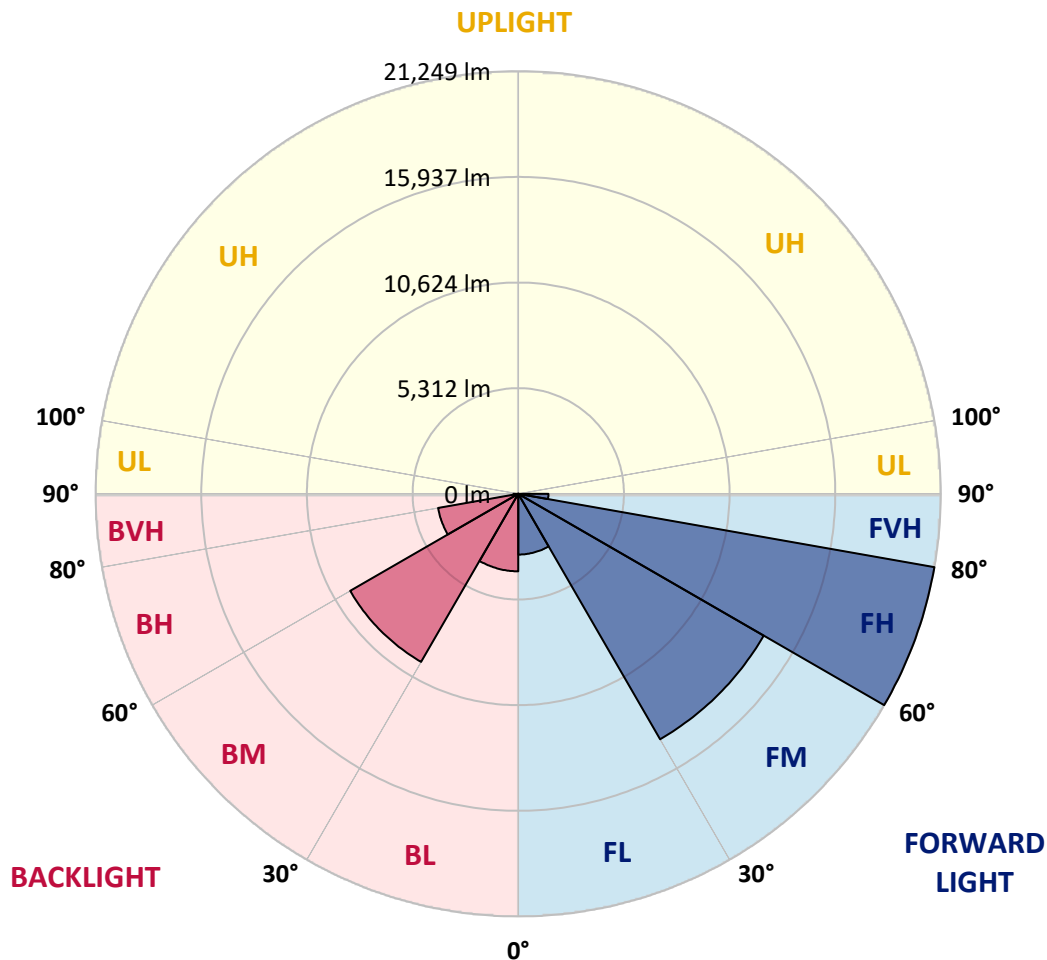


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3054.0 | 5.3 | | | |
| FM (30°-60°) | 14252.2 | 24.5 | | | |
| FH (60°-80°) | 21248.7 | 36.6 | | | G5 |
| FVH (80°-90°) | 1515.5 | 2.6 | | | G5 |
| BL (0°-30°) | 3896.5 | 6.7 | B4/5000 | | |
| BM (30°-60°) | 9757.2 | 16.8 | B5 | | |
| BH (60°-80°) | 4092.9 | 7.0 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 242.0 | 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° | 6639.1 | 6639.1 | 6639.1 | 6639.1 | 6639.1 | 6639.1 | 6639.1 | 6639.1 | 6639.1 | 6639.1 |
| 2.5° | 6537.5 | 6574.5 | 6565.2 | 6552.9 | 6552.9 | 6556.0 | 6552.9 | 6574.5 | 6596.0 | 6617.6 |
| 5° | 6605.3 | 6642.2 | 6623.7 | 6608.3 | 6596.0 | 6592.9 | 6583.7 | 6580.6 | 6592.9 | 6620.6 |
| 7.5° | 6737.7 | 6774.6 | 6746.9 | 6719.2 | 6694.6 | 6682.2 | 6669.9 | 6651.4 | 6642.2 | 6657.6 |
| 10° | 6885.5 | 6922.4 | 6888.6 | 6839.3 | 6799.3 | 6783.9 | 6771.5 | 6753.1 | 6740.7 | 6750.0 |
| 12.5° | 7033.3 | 7070.2 | 7024.0 | 6956.3 | 6903.9 | 6894.7 | 6879.3 | 6873.2 | 6870.1 | 6867.0 |
| 15° | 7171.9 | 7202.6 | 7144.1 | 7064.1 | 7008.6 | 6993.3 | 6977.9 | 6987.1 | 7002.5 | 7021.0 |
| 17.5° | 7279.6 | 7310.4 | 7224.2 | 7119.5 | 7067.2 | 7061.0 | 7051.8 | 7082.6 | 7125.7 | 7171.9 |
| 20° | 7378.2 | 7409.0 | 7298.1 | 7156.5 | 7094.9 | 7094.9 | 7098.0 | 7162.6 | 7224.2 | 7292.0 |
| 22.5° | 7516.7 | 7541.4 | 7405.9 | 7211.9 | 7122.6 | 7128.7 | 7153.4 | 7218.0 | 7295.0 | 7387.4 |
| 25° | 7723.1 | 7741.5 | 7575.3 | 7316.6 | 7215.0 | 7233.4 | 7255.0 | 7285.8 | 7359.7 | 7467.5 |
| 27.5° | 8055.6 | 8071.0 | 7852.4 | 7501.3 | 7347.4 | 7378.2 | 7409.0 | 7387.4 | 7421.3 | 7513.7 |
| 30° | 8523.7 | 8532.9 | 8255.8 | 7790.8 | 7572.2 | 7587.6 | 7593.7 | 7504.4 | 7439.8 | 7513.7 |
| 32.5° | 9078.0 | 9074.9 | 8745.4 | 8141.9 | 7827.8 | 7812.4 | 7760.0 | 7584.5 | 7433.6 | 7498.3 |
| 35° | 9937.1 | 9903.3 | 9478.3 | 8634.6 | 8117.2 | 8021.8 | 7898.6 | 7673.8 | 7464.4 | 7482.9 |
| 37.5° | 11359.8 | 11255.1 | 10666.9 | 9441.4 | 8548.3 | 8305.1 | 8123.4 | 7818.5 | 7532.1 | 7476.7 |
| 40° | 12964.2 | 12831.7 | 12185.1 | 10546.8 | 9195.0 | 8803.9 | 8511.4 | 8024.8 | 7643.0 | 7504.4 |
| 42.5° | 14867.2 | 14679.4 | 13983.4 | 11849.4 | 10014.1 | 9447.5 | 9007.2 | 8286.6 | 7806.2 | 7593.7 |
| 45° | 17204.4 | 16955.0 | 15969.6 | 13318.3 | 11045.7 | 10291.3 | 9703.1 | 8683.8 | 8055.6 | 7766.2 |
| 47.5° | 19566.3 | 19627.9 | 18226.8 | 14999.6 | 12283.6 | 11332.1 | 10574.6 | 9281.2 | 8419.0 | 8043.3 |
| 50° | 22076.0 | 22119.1 | 20471.7 | 16862.6 | 13687.8 | 12508.4 | 11553.8 | 9949.4 | 8924.0 | 8437.5 |
| 52.5° | 24034.5 | 24040.6 | 22510.2 | 18811.9 | 15150.5 | 13801.7 | 12610.0 | 10713.1 | 9509.1 | 8961.0 |
| 55° | 25260.1 | 25244.7 | 23939.0 | 20656.4 | 16831.8 | 15159.7 | 13780.2 | 11581.5 | 10223.5 | 9576.8 |
| 57.5° | 26150.0 | 26103.8 | 24924.4 | 22242.3 | 18624.0 | 16764.1 | 15104.3 | 12566.9 | 11067.3 | 10309.7 |
| 60° | 26488.7 | 26461.0 | 25592.7 | 23612.6 | 20508.6 | 18537.8 | 16631.7 | 13669.3 | 12024.9 | 11175.0 |
| 62.5° | 26618.1 | 26670.4 | 26248.6 | 24939.8 | 22525.6 | 20502.5 | 18309.9 | 14987.3 | 13102.7 | 12154.3 |
| 65° | 27073.8 | 27169.3 | 27083.1 | 26676.6 | 24804.3 | 22802.7 | 20536.3 | 16554.7 | 14279.0 | 13204.3 |
| 67.5° | 27976.1 | 28071.5 | 28108.5 | 28755.2 | 27588.1 | 25669.6 | 23313.9 | 18507.0 | 15655.5 | 14294.4 |
| 70° | 27954.5 | 27926.8 | 28579.6 | 30408.8 | 31073.9 | 29638.9 | 27058.4 | 20908.9 | 17296.8 | 15199.8 |
| 72.5° | 25444.8 | 25223.1 | 26765.9 | 30390.3 | 33974.7 | 33783.8 | 31631.3 | 24006.8 | 18713.3 | 15310.6 |
| 75° | 19089.0 | 18497.8 | 21223.0 | 27387.9 | 34458.2 | 36136.4 | 34538.2 | 25928.3 | 18377.7 | 13527.7 |
| 77.5° | 8163.4 | 7569.1 | 10780.9 | 20274.6 | 30839.9 | 33780.7 | 31871.5 | 22621.1 | 14670.1 | 8945.6 |
| 80° | 2137.1 | 2134.0 | 3258.0 | 9191.9 | 20973.6 | 24946.0 | 21885.1 | 14608.5 | 8382.0 | 3196.4 |
| 82.5° | 883.8 | 862.2 | 1197.9 | 3575.1 | 10248.1 | 13998.8 | 11424.5 | 6515.9 | 3027.0 | 865.3 |
| 85° | 329.5 | 326.4 | 582.0 | 1234.8 | 3615.2 | 5773.8 | 4178.7 | 1665.9 | 754.4 | 421.9 |
| 87.5° | 92.4 | 89.3 | 126.3 | 428.0 | 880.7 | 1336.4 | 714.4 | 274.1 | 212.5 | 166.3 |
| 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-SB9C-830-U-SL4

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 6639.1 | 0° | 6639.1 | 6639.1 | 6639.1 | 6639.1 | 6639.1 | 6639.1 | 6639.1 | 6639.1 | 6639.1 | 6639.1 |
| 6651.4 | 2.5° | 6660.7 | 6676.1 | 6703.8 | 6725.3 | 6753.1 | 6783.9 | 6827.0 | 6854.7 | 6882.4 | 6900.9 |
| 6666.8 | 5° | 6688.4 | 6722.3 | 6793.1 | 6863.9 | 6947.1 | 7024.0 | 7113.3 | 7178.0 | 7230.4 | 7245.8 |
| 6722.3 | 7.5° | 6750.0 | 6805.4 | 6925.5 | 7045.6 | 7178.0 | 7304.3 | 7433.6 | 7544.5 | 7633.8 | 7667.6 |
| 6820.8 | 10° | 6857.8 | 6931.7 | 7101.0 | 7270.4 | 7445.9 | 7639.9 | 7806.2 | 7966.3 | 8092.6 | 8144.9 |
| 6937.8 | 12.5° | 6993.3 | 7085.6 | 7307.3 | 7541.4 | 7784.7 | 8052.6 | 8268.1 | 8465.2 | 8622.2 | 8693.1 |
| 7101.0 | 15° | 7168.8 | 7288.9 | 7572.2 | 7886.3 | 8243.5 | 8616.1 | 8890.1 | 9108.8 | 9284.3 | 9370.5 |
| 7270.4 | 17.5° | 7359.7 | 7519.8 | 7877.0 | 8351.3 | 8862.4 | 9352.0 | 9672.3 | 9832.4 | 10014.1 | 10097.3 |
| 7427.4 | 20° | 7544.5 | 7741.5 | 8252.7 | 8942.5 | 9623.0 | 10143.4 | 10402.1 | 10445.2 | 10457.5 | 10466.8 |
| 7575.3 | 22.5° | 7735.4 | 8000.2 | 8723.9 | 9687.7 | 10417.5 | 10777.8 | 10814.8 | 10630.0 | 10371.3 | 10251.2 |
| 7720.0 | 25° | 7944.8 | 8295.8 | 9339.7 | 10509.9 | 11101.1 | 11144.2 | 10860.9 | 10411.4 | 9921.7 | 9696.9 |
| 7837.0 | 27.5° | 8148.0 | 8637.6 | 10078.8 | 11295.1 | 11593.8 | 11215.1 | 10605.4 | 9967.9 | 9376.7 | 9139.6 |
| 7920.1 | 30° | 8351.3 | 9028.7 | 10894.8 | 11981.8 | 11818.6 | 11039.5 | 10202.0 | 9490.6 | 8896.3 | 8646.9 |
| 7994.0 | 32.5° | 8557.6 | 9484.5 | 11834.0 | 12477.6 | 11778.6 | 10666.9 | 9700.0 | 8954.8 | 8431.3 | 8169.6 |
| 8058.7 | 35° | 8791.6 | 10044.9 | 12724.0 | 12748.6 | 11510.7 | 10118.8 | 9038.0 | 8314.3 | 7858.6 | 7649.2 |
| 8135.7 | 37.5° | 9096.5 | 10756.2 | 13509.2 | 12816.3 | 11042.6 | 9315.1 | 8215.8 | 7556.8 | 7181.1 | 7085.6 |
| 8249.6 | 40° | 9475.2 | 11612.3 | 14109.7 | 12708.6 | 10349.8 | 8338.9 | 7316.6 | 6790.0 | 6577.5 | 6599.1 |
| 8403.6 | 42.5° | 9967.9 | 12570.0 | 14531.6 | 12431.4 | 9385.9 | 7332.0 | 6528.3 | 6294.2 | 6395.9 | 6482.1 |
| 8634.6 | 45° | 10608.4 | 13564.6 | 14793.3 | 11960.3 | 8295.8 | 6479.0 | 6063.3 | 6118.7 | 6195.7 | 6204.9 |
| 9007.2 | 47.5° | 11427.5 | 14571.6 | 14965.7 | 11248.9 | 7184.2 | 5878.5 | 5767.7 | 5780.0 | 5764.6 | 5699.9 |
| 9564.5 | 50° | 12449.9 | 15550.8 | 15119.7 | 10306.7 | 6238.8 | 5502.8 | 5355.0 | 5311.9 | 5099.4 | 4890.0 |
| 10306.7 | 52.5° | 13613.9 | 16450.0 | 15184.4 | 9136.5 | 5502.8 | 5188.7 | 4948.5 | 4677.6 | 4280.3 | 4215.7 |
| 11239.7 | 55° | 14907.2 | 17281.4 | 15018.1 | 7698.4 | 4883.9 | 4785.3 | 4422.0 | 4095.6 | 4052.5 | 3997.0 |
| 12468.4 | 57.5° | 16453.1 | 18177.5 | 14679.4 | 6094.1 | 4249.5 | 4314.2 | 3960.1 | 3997.0 | 3920.0 | 3833.8 |
| 14048.1 | 60° | 18143.7 | 19104.4 | 14085.0 | 4631.4 | 3593.6 | 3726.0 | 3840.0 | 3836.9 | 3815.3 | 3744.5 |
| 15714.0 | 62.5° | 19664.9 | 19714.1 | 12914.9 | 3547.4 | 3017.8 | 3270.3 | 3581.3 | 3578.2 | 3559.8 | 3519.7 |
| 17453.9 | 65° | 20570.2 | 19621.8 | 10962.6 | 2793.0 | 2543.6 | 2894.6 | 3230.3 | 3254.9 | 3258.0 | 3254.9 |
| 18762.6 | 67.5° | 20410.1 | 18540.9 | 8283.5 | 2223.3 | 2152.5 | 2512.8 | 2882.3 | 2916.2 | 2940.8 | 2947.0 |
| 18928.9 | 70° | 18599.4 | 16166.7 | 5401.2 | 1773.7 | 1804.5 | 2177.1 | 2552.8 | 2586.7 | 2608.2 | 2632.9 |
| 16425.4 | 72.5° | 14497.7 | 11886.4 | 3091.7 | 1435.0 | 1499.7 | 1887.7 | 2226.4 | 2266.4 | 2278.7 | 2324.9 |
| 11430.6 | 75° | 8834.7 | 6990.2 | 1669.0 | 1130.1 | 1231.7 | 1613.6 | 1903.1 | 1949.2 | 1970.8 | 2026.2 |
| 5613.7 | 77.5° | 4200.3 | 3027.0 | 951.5 | 880.7 | 991.6 | 1318.0 | 1607.4 | 1659.8 | 1601.3 | 1632.1 |
| 1548.9 | 80° | 1419.6 | 1124.0 | 600.5 | 671.3 | 757.5 | 1028.5 | 1287.2 | 1339.5 | 1216.4 | 1210.2 |
| 514.3 | 82.5° | 495.8 | 455.7 | 381.8 | 446.5 | 489.6 | 736.0 | 973.1 | 1040.8 | 905.3 | 902.3 |
| 231.0 | 85° | 194.0 | 184.8 | 212.5 | 243.3 | 292.5 | 452.7 | 640.5 | 674.4 | 557.4 | 449.6 |
| 67.7 | 87.5° | 40.0 | 43.1 | 52.3 | 55.4 | 89.3 | 157.0 | 231.0 | 283.3 | 224.8 | 190.9 |
| 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° |
|---------|
| 6639.1 |
| 6888.6 |
| 7251.9 |
| 7670.7 |
| 8148.0 |
| 8693.1 |
| 9364.4 |
| 10094.2 |
| 10491.4 |
| 10285.1 |
| 9730.8 |
| 9167.3 |
| 8674.6 |
| 8203.4 |
| 7695.3 |
| 7153.4 |
| 6673.0 |
| 6562.1 |
| 6266.5 |
| 5749.2 |
| 4917.8 |
| 4237.2 |
| 4006.3 |
| 3818.4 |
| 3719.9 |
| 3504.3 |
| 3254.9 |
| 2953.1 |
| 2645.2 |
| 2343.4 |
| 2032.4 |
| 1607.4 |
| 1197.9 |
| 859.1 |
| 443.4 |
| 175.5 |
| 0.0 |

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