

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: P850358

Luminaire Tested: **GLAN-SB7D-827-U-T3**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P850358
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB7D-827-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57739 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

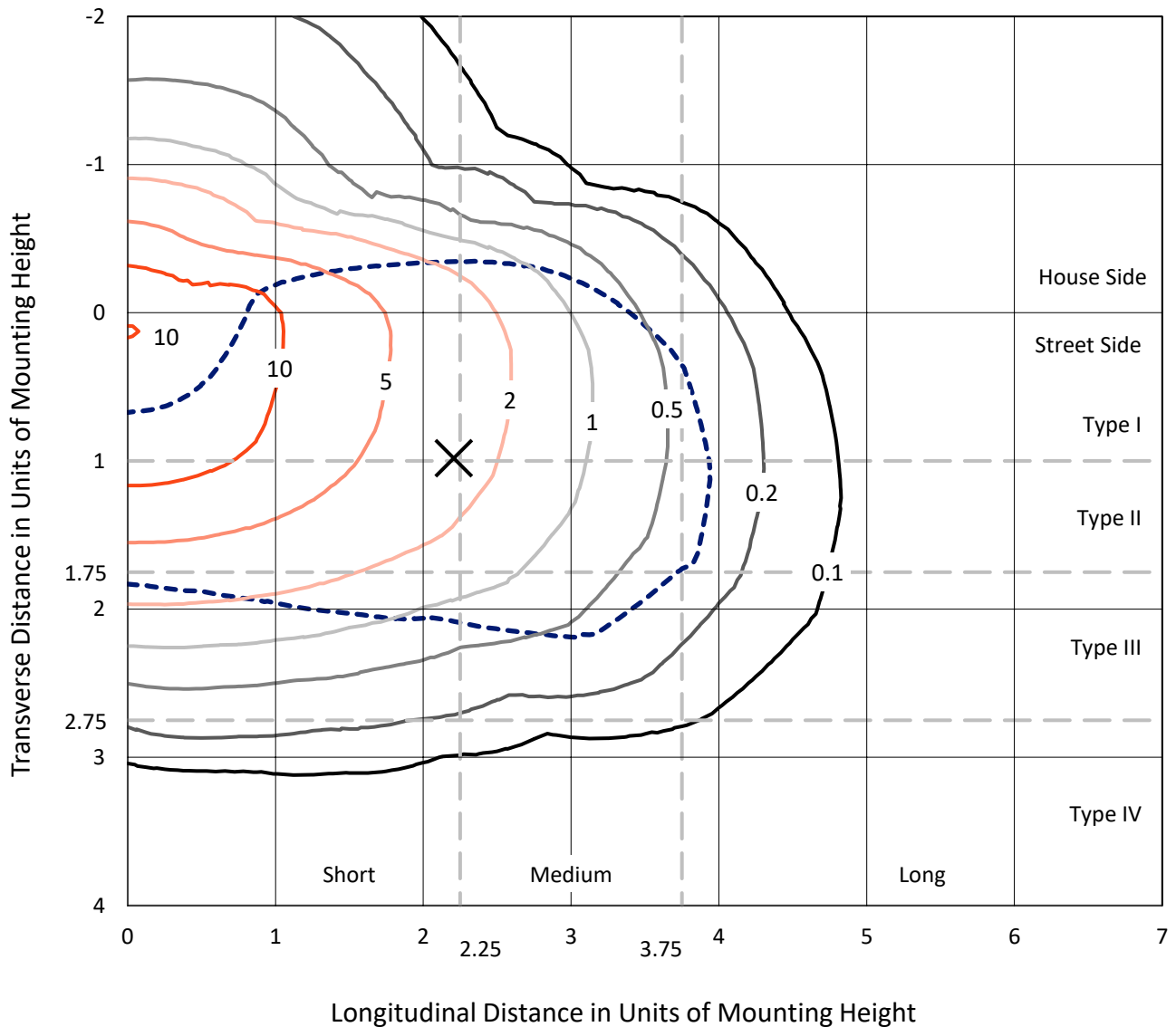
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

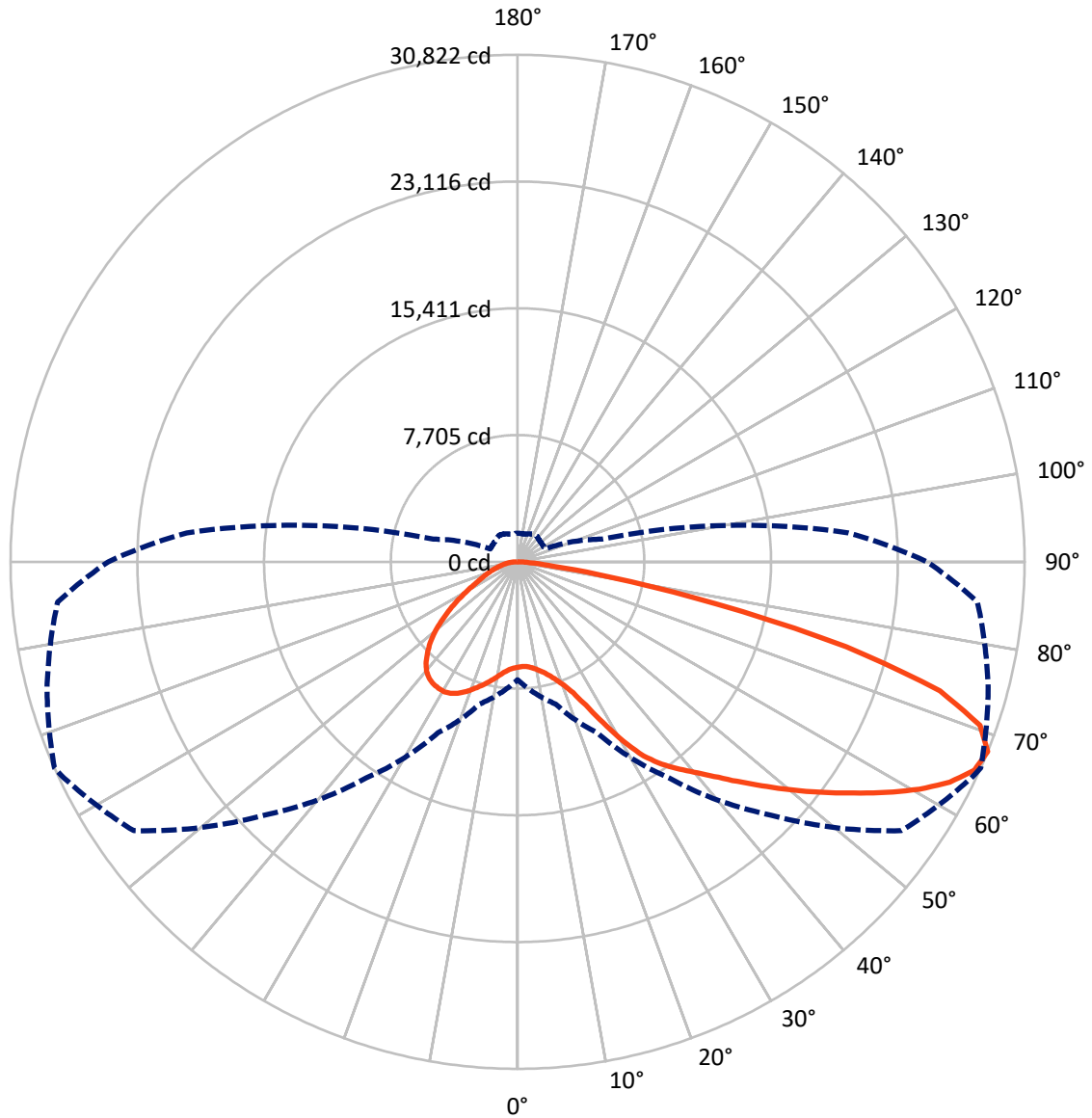
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 14356.6 | 0.0 | 14356.6 |
| | % Fixture | 24.9 | 0.0 | 24.9 |
| Street Side | Lumens | 43382.4 | 0.0 | 43382.4 |
| | % Fixture | 75.1 | 0.0 | 75.1 |
| Total | Lumens | 57739.0 | 0.0 | 57739.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 634.9 | 1.1 |
| 10°-20° | 2097.7 | 3.6 |
| 20°-30° | 4043.3 | 7.0 |
| 30°-40° | 7089.3 | 12.3 |
| 40°-50° | 10539.5 | 18.3 |
| 50°-60° | 13359.9 | 23.1 |
| 60°-70° | 13072.3 | 22.6 |
| 70°-80° | 6235.6 | 10.8 |
| 80°-90° | 666.4 | 1.2 |
| 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° | 57739.0 | 100.0 |
| 0°-180° | 57739.0 | 100.0 |

Coefficient of Utilization

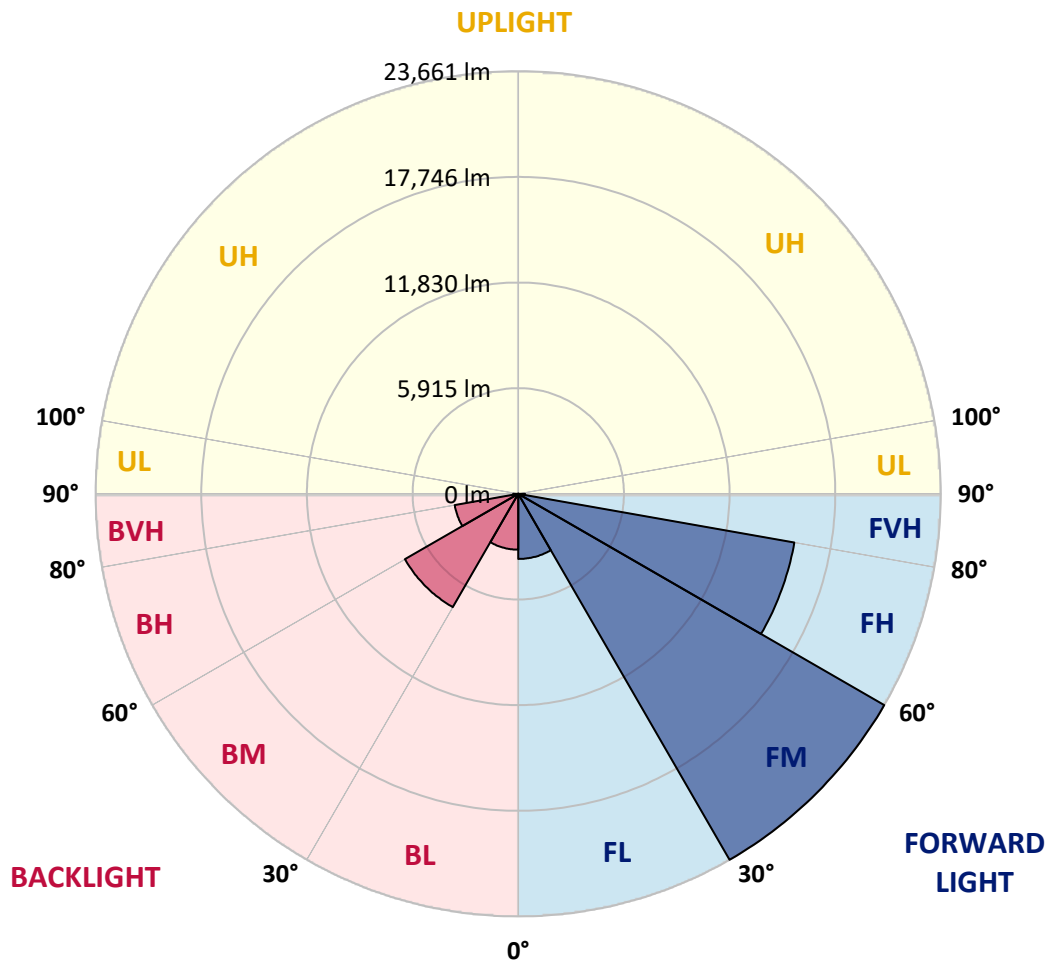


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3648.5 | 6.3 | | | |
| FM (30°-60°) | 23661.0 | 41.0 | | | |
| FH (60°-80°) | 15695.0 | 27.2 | | | G5 |
| FVH (80°-90°) | 377.8 | 0.7 | | | G3/500 |
| BL (0°-30°) | 3127.4 | 5.4 | B4/5000 | | |
| BM (30°-60°) | 7327.8 | 12.7 | B4/8500 | | |
| BH (60°-80°) | 3612.9 | 6.3 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 288.6 | 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 III Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6404.0 | 6404.0 | 6404.0 | 6404.0 | 6404.0 | 6404.0 | 6404.0 | 6404.0 | 6404.0 | 6404.0 |
| 2.5° | 6337.3 | 6373.7 | 6364.6 | 6349.4 | 6346.4 | 6352.4 | 6361.5 | 6370.6 | 6367.6 | 6382.8 |
| 5° | 6319.1 | 6355.5 | 6352.4 | 6352.4 | 6364.6 | 6388.8 | 6404.0 | 6419.2 | 6404.0 | 6422.2 |
| 7.5° | 6331.2 | 6358.5 | 6370.6 | 6382.8 | 6413.1 | 6458.6 | 6495.0 | 6528.4 | 6510.2 | 6531.4 |
| 10° | 6485.9 | 6507.2 | 6519.3 | 6519.3 | 6540.5 | 6592.1 | 6628.5 | 6689.2 | 6674.0 | 6707.4 |
| 12.5° | 6768.1 | 6789.3 | 6789.3 | 6777.2 | 6792.3 | 6825.7 | 6837.8 | 6904.6 | 6877.3 | 6931.9 |
| 15° | 7113.9 | 7156.4 | 7123.0 | 7101.8 | 7107.8 | 7141.2 | 7138.2 | 7189.7 | 7162.4 | 7207.9 |
| 17.5° | 7496.1 | 7550.7 | 7496.1 | 7493.1 | 7481.0 | 7517.4 | 7520.4 | 7565.9 | 7517.4 | 7550.7 |
| 20° | 7948.1 | 8024.0 | 7978.5 | 7993.6 | 7966.3 | 7981.5 | 7996.7 | 8063.4 | 7987.6 | 8011.8 |
| 22.5° | 8585.2 | 8676.2 | 8627.7 | 8685.3 | 8667.1 | 8655.0 | 8651.9 | 8770.3 | 8651.9 | 8661.0 |
| 25° | 9513.5 | 9622.7 | 9537.8 | 9616.6 | 9616.6 | 9656.1 | 9701.6 | 9853.3 | 9656.1 | 9598.4 |
| 27.5° | 10884.7 | 10993.9 | 10827.1 | 10875.6 | 10860.4 | 10957.5 | 10909.0 | 11285.1 | 11072.8 | 10978.8 |
| 30° | 12535.0 | 12729.2 | 12413.7 | 12401.5 | 12386.4 | 12541.1 | 12610.8 | 12859.6 | 12644.2 | 12550.2 |
| 32.5° | 14318.8 | 14522.0 | 14145.9 | 14036.7 | 13979.0 | 14073.1 | 14015.4 | 14215.6 | 14067.0 | 13921.4 |
| 35° | 16205.7 | 16405.9 | 16048.0 | 15835.6 | 15605.1 | 15407.9 | 15201.6 | 15253.2 | 15113.6 | 14892.1 |
| 37.5° | 17989.5 | 18356.6 | 17977.4 | 17749.8 | 17325.1 | 16939.9 | 16363.5 | 16123.8 | 15993.4 | 15790.1 |
| 40° | 19806.6 | 20016.0 | 19727.8 | 19533.6 | 19072.5 | 18468.8 | 17546.6 | 17040.0 | 16864.0 | 16666.8 |
| 42.5° | 21144.5 | 21344.7 | 21190.0 | 21056.5 | 20695.5 | 19994.7 | 18802.5 | 18168.5 | 17913.7 | 17692.2 |
| 45° | 22206.3 | 22354.9 | 22257.8 | 22306.4 | 22151.7 | 21472.1 | 20103.9 | 19378.9 | 19115.0 | 18845.0 |
| 47.5° | 22634.0 | 22791.8 | 22946.5 | 23234.7 | 23498.6 | 22998.0 | 21502.5 | 20689.4 | 20410.3 | 20134.3 |
| 50° | 22585.5 | 22746.2 | 23195.2 | 23808.0 | 24627.1 | 24460.3 | 22976.8 | 22084.9 | 21827.1 | 21511.6 |
| 52.5° | 22197.2 | 22379.2 | 22955.6 | 23974.9 | 25279.3 | 25555.4 | 24478.5 | 23525.9 | 23283.2 | 22907.0 |
| 55° | 21177.9 | 21287.1 | 22151.7 | 23595.7 | 25434.1 | 26319.9 | 25949.8 | 25060.9 | 24818.2 | 24293.4 |
| 57.5° | 19287.9 | 19445.6 | 20704.6 | 22573.3 | 25045.7 | 26838.6 | 27242.1 | 26674.8 | 26441.2 | 25685.8 |
| 60° | 16821.5 | 17073.3 | 18514.3 | 20856.3 | 24056.8 | 26835.6 | 28416.1 | 28261.4 | 28067.3 | 27057.1 |
| 62.5° | 14030.6 | 14321.8 | 15708.2 | 18429.4 | 22327.6 | 26074.2 | 29150.3 | 29590.1 | 29490.0 | 28322.1 |
| 65° | 10775.5 | 10975.7 | 12356.0 | 15289.6 | 19636.8 | 24439.0 | 29235.2 | 30497.2 | 30515.4 | 29283.7 |
| 67.5° | 7174.6 | 7751.0 | 8949.2 | 11473.2 | 16032.8 | 21766.4 | 28488.9 | 30645.9 | 30821.8 | 29614.4 |
| 70° | 3500.8 | 4259.2 | 5433.3 | 7456.7 | 11473.2 | 17667.9 | 26538.3 | 29426.3 | 29817.7 | 28649.7 |
| 72.5° | 1453.1 | 1698.8 | 2338.9 | 3679.8 | 6586.0 | 11922.2 | 22618.8 | 26119.7 | 26844.7 | 25385.5 |
| 75° | 979.9 | 1061.8 | 1337.8 | 1886.9 | 3000.3 | 5879.2 | 16311.9 | 19476.0 | 20643.9 | 19172.6 |
| 77.5° | 755.4 | 806.9 | 973.8 | 1319.6 | 1783.8 | 2223.7 | 8730.8 | 11737.2 | 12340.9 | 11424.7 |
| 80° | 594.6 | 634.0 | 728.1 | 961.7 | 1265.0 | 1189.2 | 2976.0 | 5318.0 | 5666.8 | 4753.7 |
| 82.5° | 515.7 | 530.9 | 521.8 | 652.2 | 840.3 | 694.7 | 976.8 | 1962.8 | 2166.0 | 1571.4 |
| 85° | 373.1 | 415.6 | 433.8 | 403.5 | 445.9 | 351.9 | 400.4 | 694.7 | 764.5 | 682.6 |
| 87.5° | 151.7 | 224.5 | 276.1 | 260.9 | 163.8 | 100.1 | 124.4 | 203.3 | 233.6 | 254.8 |
| 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° |
|---------|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| 6404.0 | 0° | 6404.0 | 6404.0 | 6404.0 | 6404.0 | 6404.0 | 6404.0 | 6404.0 | 6404.0 | 6404.0 | 6404.0 |
| 6407.1 | 2.5° | 6410.1 | 6431.3 | 6446.5 | 6464.7 | 6476.8 | 6495.0 | 6531.4 | 6552.7 | 6555.7 | 6570.9 |
| 6455.6 | 5° | 6467.7 | 6498.1 | 6531.4 | 6580.0 | 6634.6 | 6680.1 | 6749.9 | 6798.4 | 6816.6 | 6831.8 |
| 6573.9 | 7.5° | 6592.1 | 6634.6 | 6695.2 | 6780.2 | 6859.1 | 6919.7 | 7004.7 | 7062.3 | 7120.0 | 7141.2 |
| 6762.0 | 10° | 6777.2 | 6837.8 | 6925.8 | 7041.1 | 7126.0 | 7204.9 | 7292.9 | 7341.4 | 7399.1 | 7423.3 |
| 6986.5 | 12.5° | 7007.7 | 7071.4 | 7186.7 | 7347.5 | 7426.4 | 7481.0 | 7511.3 | 7499.2 | 7511.3 | 7532.5 |
| 7256.5 | 15° | 7271.6 | 7341.4 | 7471.9 | 7644.8 | 7699.4 | 7650.8 | 7584.1 | 7523.4 | 7514.3 | 7520.4 |
| 7584.1 | 17.5° | 7584.1 | 7635.7 | 7787.4 | 7933.0 | 7893.5 | 7693.3 | 7547.7 | 7450.6 | 7402.1 | 7386.9 |
| 8002.7 | 20° | 8020.9 | 8020.9 | 8145.3 | 8236.3 | 7972.4 | 7632.6 | 7405.1 | 7247.4 | 7147.3 | 7104.8 |
| 8573.1 | 22.5° | 8551.8 | 8503.3 | 8582.2 | 8518.5 | 7957.2 | 7462.8 | 7147.3 | 6874.2 | 6722.6 | 6661.9 |
| 9370.9 | 25° | 9225.3 | 9167.7 | 9146.4 | 8752.1 | 7848.0 | 7192.8 | 6680.1 | 6349.4 | 6215.9 | 6182.6 |
| 10520.7 | 27.5° | 10241.6 | 10096.0 | 9819.9 | 8879.5 | 7647.8 | 6768.1 | 6134.0 | 5827.6 | 5751.8 | 5754.8 |
| 11998.1 | 30° | 11594.6 | 11303.3 | 10626.8 | 8900.7 | 7320.2 | 6167.4 | 5575.8 | 5357.4 | 5321.0 | 5336.2 |
| 13238.8 | 32.5° | 12847.5 | 12571.4 | 11452.0 | 8803.6 | 6816.6 | 5578.9 | 5075.3 | 4929.7 | 4875.1 | 4893.3 |
| 14185.3 | 35° | 13830.4 | 13754.5 | 12216.5 | 8667.1 | 6197.7 | 5026.7 | 4626.3 | 4501.9 | 4395.7 | 4371.5 |
| 15077.2 | 37.5° | 14758.7 | 14728.3 | 12789.8 | 8476.0 | 5584.9 | 4635.4 | 4265.3 | 4101.5 | 3946.8 | 3861.8 |
| 16063.1 | 40° | 15778.0 | 15747.6 | 13166.0 | 8181.7 | 5041.9 | 4295.6 | 3940.7 | 3725.3 | 3534.2 | 3379.5 |
| 17179.5 | 42.5° | 16924.7 | 16745.7 | 13345.0 | 7760.1 | 4580.8 | 4007.4 | 3676.8 | 3385.5 | 3133.8 | 2991.2 |
| 18441.5 | 45° | 18177.6 | 17774.1 | 13342.0 | 7223.1 | 4192.5 | 3743.5 | 3394.6 | 2982.1 | 2748.5 | 2615.0 |
| 19736.9 | 47.5° | 19506.3 | 18757.0 | 13178.1 | 6628.5 | 3816.3 | 3452.3 | 2957.8 | 2642.3 | 2487.6 | 2405.7 |
| 21144.5 | 50° | 20877.5 | 19676.2 | 12899.0 | 5945.9 | 3431.0 | 3121.6 | 2684.8 | 2469.4 | 2351.1 | 2275.2 |
| 22540.0 | 52.5° | 22166.8 | 20510.5 | 12562.3 | 5172.4 | 3039.7 | 2800.1 | 2563.4 | 2396.6 | 2272.2 | 2187.3 |
| 23893.0 | 55° | 23365.1 | 21229.4 | 12086.0 | 4380.6 | 2721.2 | 2584.7 | 2505.8 | 2366.2 | 2223.7 | 2123.5 |
| 25267.2 | 57.5° | 24429.9 | 21696.6 | 11263.9 | 3637.3 | 2493.7 | 2436.0 | 2445.1 | 2314.7 | 2150.9 | 2065.9 |
| 26620.2 | 60° | 25315.7 | 22039.4 | 10047.4 | 2948.7 | 2308.6 | 2290.4 | 2351.1 | 2217.6 | 2026.5 | 1929.4 |
| 27763.9 | 62.5° | 25846.6 | 22033.3 | 8554.9 | 2414.8 | 2150.9 | 2156.9 | 2226.7 | 2096.2 | 1902.1 | 1811.1 |
| 28361.5 | 65° | 25801.1 | 21493.4 | 6916.7 | 2065.9 | 1999.2 | 2005.2 | 2096.2 | 1962.8 | 1798.9 | 1744.3 |
| 28061.2 | 67.5° | 24888.0 | 20176.8 | 5305.8 | 1838.4 | 1832.3 | 1859.6 | 1965.8 | 1871.8 | 1735.2 | 1729.2 |
| 26271.3 | 70° | 22415.6 | 17443.4 | 3822.4 | 1656.4 | 1659.4 | 1698.8 | 1838.4 | 1814.1 | 1701.9 | 1714.0 |
| 22087.9 | 72.5° | 17974.3 | 13299.5 | 2566.5 | 1465.2 | 1468.3 | 1532.0 | 1717.0 | 1768.6 | 1668.5 | 1829.3 |
| 15671.8 | 75° | 11970.8 | 8294.0 | 1650.3 | 1262.0 | 1265.0 | 1346.9 | 1610.9 | 1680.6 | 1577.5 | 1823.2 |
| 8154.4 | 77.5° | 5751.8 | 3728.3 | 1195.3 | 1061.8 | 1061.8 | 1137.6 | 1392.4 | 1504.7 | 1343.9 | 1416.7 |
| 2621.1 | 80° | 1987.0 | 1401.5 | 940.4 | 855.5 | 837.3 | 888.9 | 1174.0 | 1304.5 | 1158.9 | 1067.8 |
| 855.5 | 82.5° | 782.7 | 728.1 | 755.4 | 664.4 | 603.7 | 637.1 | 913.1 | 1076.9 | 852.5 | 770.5 |
| 482.3 | 85° | 449.0 | 473.2 | 533.9 | 439.9 | 348.9 | 391.3 | 670.4 | 773.6 | 643.1 | 567.3 |
| 157.7 | 87.5° | 121.3 | 166.9 | 245.7 | 227.5 | 157.7 | 166.9 | 318.5 | 427.7 | 370.1 | 285.2 |
| 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° |
|--------|
| 6404.0 |
| 6567.8 |
| 6828.7 |
| 7144.2 |
| 7435.5 |
| 7538.6 |
| 7541.6 |
| 7408.2 |
| 7095.7 |
| 6652.8 |
| 6188.6 |
| 5763.9 |
| 5387.7 |
| 4917.5 |
| 4389.7 |
| 3864.9 |
| 3394.6 |
| 3000.3 |
| 2608.9 |
| 2387.5 |
| 2247.9 |
| 2150.9 |
| 2084.1 |
| 2011.3 |
| 1886.9 |
| 1783.8 |
| 1741.3 |
| 1738.3 |
| 1711.0 |
| 1853.6 |
| 1838.4 |
| 1298.4 |
| 1001.1 |
| 767.5 |
| 579.4 |
| 294.3 |
| 0.0 |

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