

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: P850865

Luminaire Tested: **GLAN-SB8C-827-U-T2-HSS**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P850865
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB8C-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35258 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

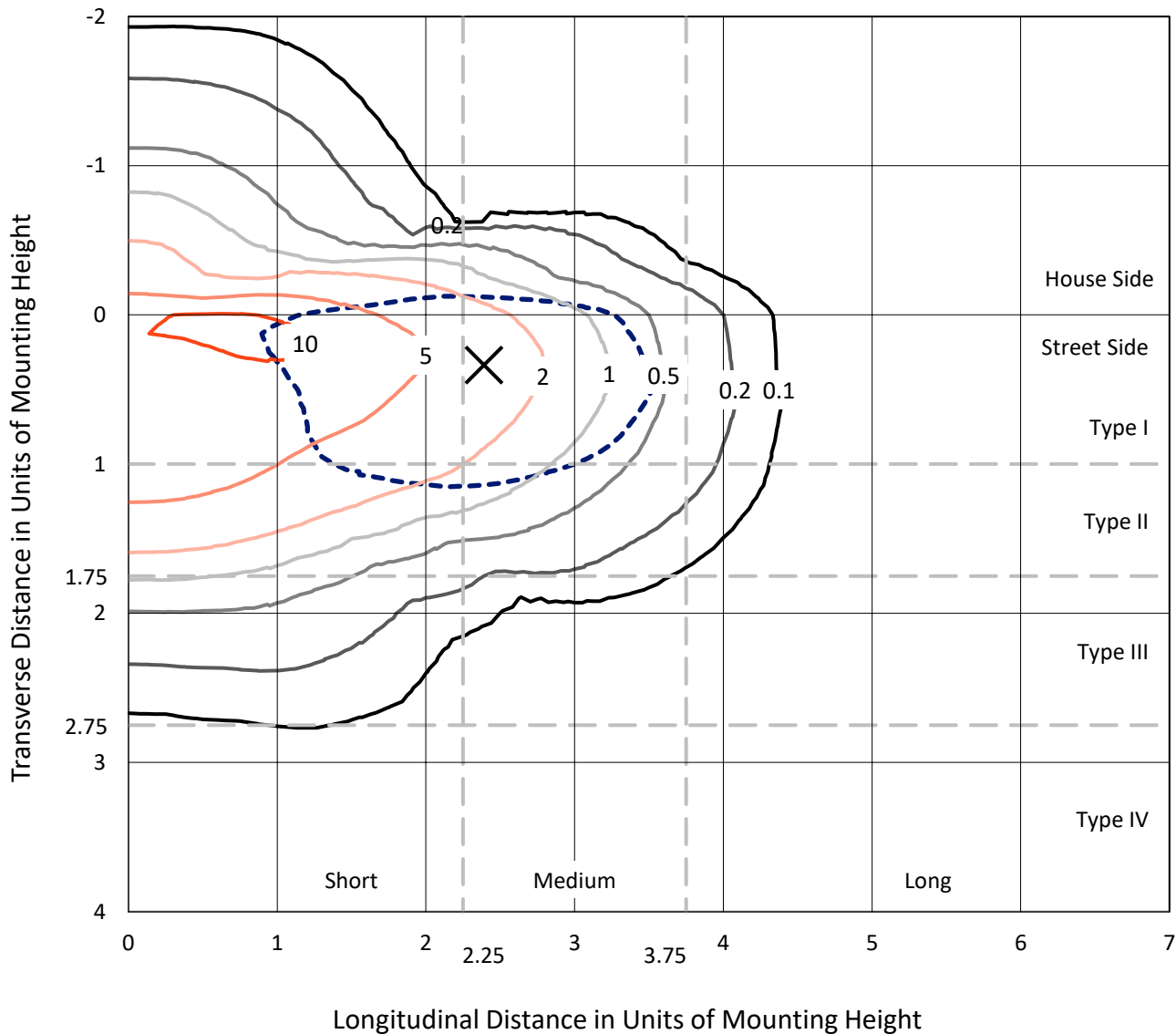
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

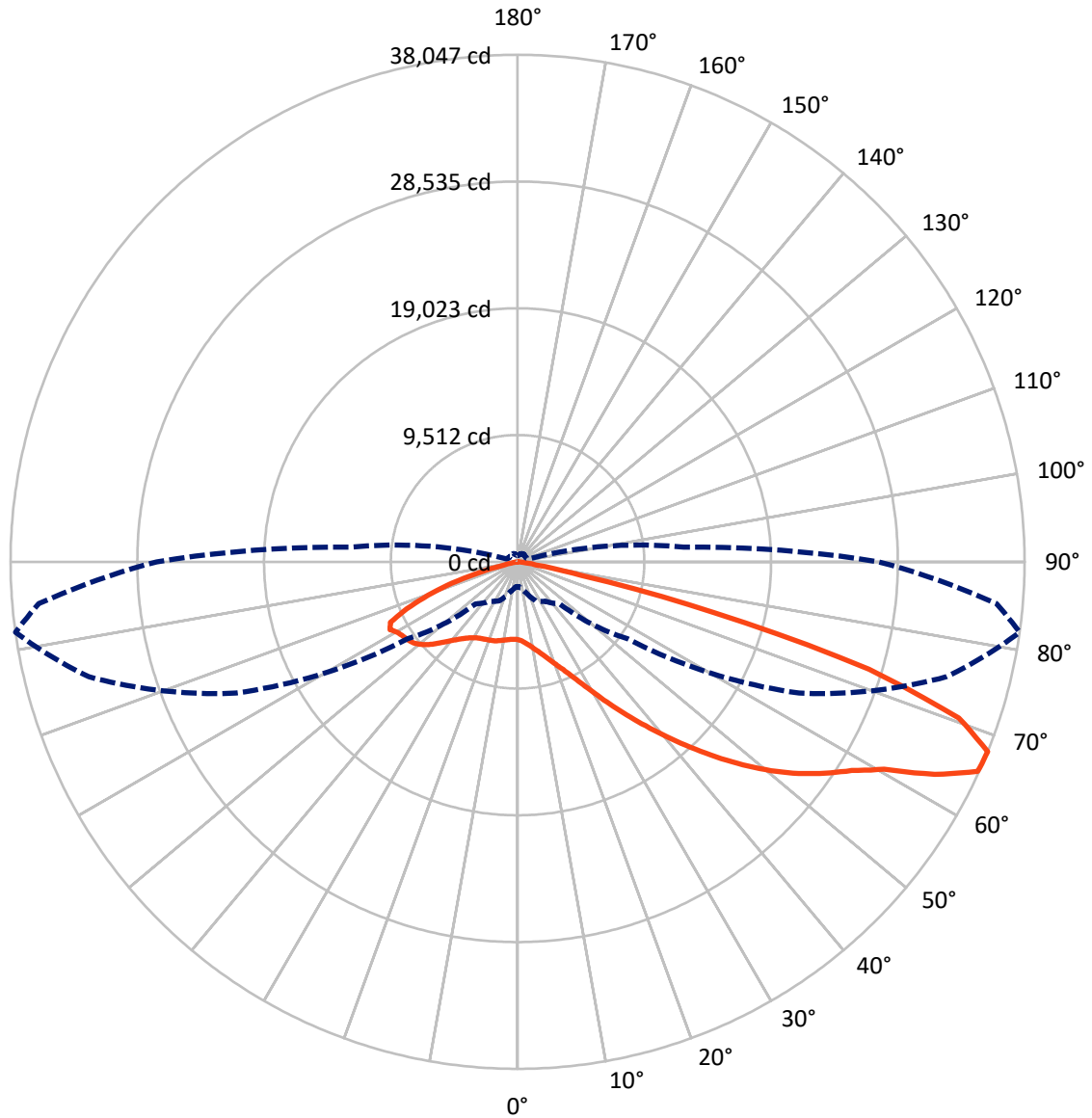
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6386.7 | 0.0 | 6386.7 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 28871.3 | 0.0 | 28871.3 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 35258.0 | 0.0 | 35258.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 520.4 | 1.5 |
| 10°-20° | 1352.3 | 3.8 |
| 20°-30° | 2165.9 | 6.1 |
| 30°-40° | 3830.1 | 10.9 |
| 40°-50° | 6710.6 | 19.0 |
| 50°-60° | 8950.1 | 25.4 |
| 60°-70° | 8332.1 | 23.6 |
| 70°-80° | 3197.9 | 9.1 |
| 80°-90° | 198.6 | 0.6 |
| 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° | 35258.0 | 100.0 |
| 0°-180° | 35258.0 | 100.0 |

Coefficient of Utilization

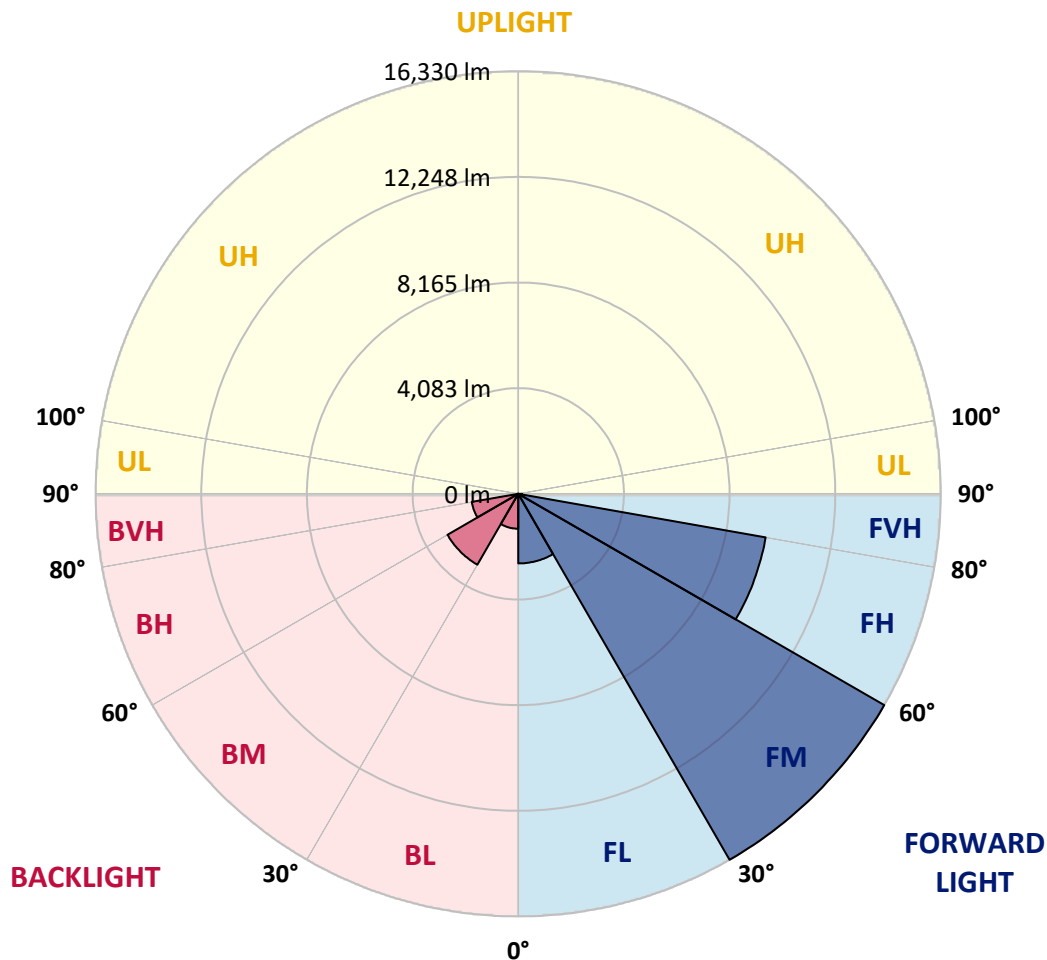


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2689.8 | 7.6 | | | |
| FM (30°-60°) | 16330.1 | 46.3 | | | |
| FH (60°-80°) | 9707.1 | 27.5 | | | G4/12000 |
| FVH (80°-90°) | 144.4 | 0.4 | | | G2/225 |
| BL (0°-30°) | 1348.8 | 3.8 | B3/2500 | | |
| BM (30°-60°) | 3160.7 | 9.0 | B3/5000 | | |
| BH (60°-80°) | 1822.9 | 5.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 54.2 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 82° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5841.1 | 5841.1 | 5841.1 | 5841.1 | 5841.1 | 5841.1 | 5841.1 | 5841.1 | 5841.1 | 5841.1 |
| 2.5° | 6173.6 | 6209.1 | 6188.8 | 6178.7 | 6160.9 | 6135.5 | 6115.2 | 6051.8 | 5985.8 | 5942.6 |
| 5° | 6298.0 | 6333.5 | 6331.0 | 6341.1 | 6353.8 | 6361.4 | 6356.4 | 6285.3 | 6191.4 | 6117.8 |
| 7.5° | 6191.4 | 6232.0 | 6265.0 | 6315.8 | 6404.6 | 6498.5 | 6544.2 | 6529.0 | 6432.5 | 6331.0 |
| 10° | 5889.3 | 5932.4 | 6011.1 | 6130.4 | 6318.3 | 6521.4 | 6691.5 | 6770.1 | 6709.2 | 6597.5 |
| 12.5° | 5335.9 | 5379.1 | 5533.9 | 5792.8 | 6107.6 | 6460.4 | 6785.4 | 6996.1 | 7011.3 | 6899.6 |
| 15° | 4714.0 | 4757.1 | 4922.1 | 5247.1 | 5726.8 | 6292.9 | 6836.1 | 7234.7 | 7369.2 | 7272.8 |
| 17.5° | 4328.1 | 4366.2 | 4490.6 | 4752.0 | 5252.1 | 5957.8 | 6818.4 | 7488.5 | 7795.7 | 7719.5 |
| 20° | 4211.3 | 4244.3 | 4302.7 | 4485.5 | 4901.8 | 5610.1 | 6701.6 | 7727.2 | 8255.2 | 8212.0 |
| 22.5° | 4335.7 | 4366.2 | 4384.0 | 4465.2 | 4726.7 | 5381.6 | 6554.4 | 7970.8 | 8788.2 | 8793.3 |
| 25° | 4622.6 | 4653.0 | 4632.7 | 4683.5 | 4797.7 | 5310.5 | 6498.5 | 8257.7 | 9458.4 | 9514.2 |
| 27.5° | 5094.7 | 5097.3 | 5049.0 | 5046.5 | 5064.3 | 5417.1 | 6556.9 | 8564.9 | 10303.7 | 10407.8 |
| 30° | 6041.6 | 6003.5 | 5818.2 | 5617.7 | 5526.3 | 5737.0 | 6719.4 | 8927.9 | 11301.3 | 11486.7 |
| 32.5° | 7501.2 | 7445.4 | 7105.2 | 6625.4 | 6143.1 | 6252.3 | 7011.3 | 9341.6 | 12387.8 | 12722.9 |
| 35° | 9085.2 | 9070.0 | 8714.6 | 8001.3 | 7158.5 | 6985.9 | 7486.0 | 9884.9 | 13573.3 | 14106.4 |
| 37.5° | 10557.6 | 10549.9 | 10346.9 | 9506.6 | 8481.1 | 8008.9 | 8247.5 | 10595.6 | 14842.5 | 15614.2 |
| 40° | 11903.0 | 11925.8 | 11722.7 | 10971.3 | 9938.2 | 9321.3 | 9283.2 | 11474.0 | 16253.9 | 17256.6 |
| 42.5° | 13065.6 | 13091.0 | 12885.4 | 12329.4 | 11377.5 | 10773.3 | 10555.0 | 12550.3 | 17632.3 | 19020.9 |
| 45° | 13855.1 | 14012.4 | 13982.0 | 13537.7 | 12854.9 | 12227.9 | 12083.2 | 13900.8 | 19203.7 | 20891.7 |
| 47.5° | 14078.4 | 14223.1 | 14451.6 | 14512.5 | 14096.2 | 13479.4 | 13652.0 | 15527.9 | 20792.7 | 22765.1 |
| 50° | 13527.6 | 13662.1 | 14136.8 | 14768.9 | 15058.3 | 14867.9 | 15177.6 | 17271.9 | 22419.9 | 24633.5 |
| 52.5° | 12441.1 | 12578.2 | 13177.3 | 14177.4 | 15357.8 | 15956.9 | 16708.3 | 18990.4 | 23996.3 | 26402.8 |
| 55° | 10869.8 | 11014.5 | 11783.7 | 12915.8 | 14786.7 | 16406.2 | 17985.2 | 20706.4 | 25440.7 | 27994.4 |
| 57.5° | 8732.4 | 8839.0 | 9638.6 | 11222.6 | 13349.9 | 15959.5 | 18927.0 | 22579.8 | 26801.3 | 29558.1 |
| 60° | 5691.3 | 5785.2 | 6714.3 | 8481.1 | 10968.8 | 14466.8 | 19114.8 | 24669.0 | 28608.7 | 31591.5 |
| 62.5° | 3784.9 | 3848.3 | 4399.2 | 5696.4 | 7724.6 | 11600.9 | 18015.6 | 26336.8 | 31258.9 | 35130.1 |
| 65° | 2596.9 | 2660.3 | 3211.2 | 4114.9 | 4990.7 | 7673.8 | 14855.2 | 26115.9 | 33660.3 | 37940.2 |
| 67.5° | 1853.1 | 1906.4 | 2373.5 | 3226.4 | 3612.3 | 4457.6 | 10070.2 | 23293.2 | 33315.1 | 38046.8 |
| 70° | 1327.6 | 1358.1 | 1743.9 | 2513.1 | 2871.0 | 2678.1 | 5599.9 | 17815.1 | 29169.7 | 35132.7 |
| 72.5° | 929.1 | 939.2 | 1210.9 | 1914.0 | 2312.6 | 1954.6 | 2665.4 | 11877.6 | 22062.0 | 27575.6 |
| 75° | 629.5 | 642.2 | 814.9 | 1403.8 | 1855.6 | 1492.6 | 1411.4 | 6369.1 | 12951.4 | 15263.9 |
| 77.5° | 385.8 | 390.9 | 525.5 | 959.5 | 1388.6 | 1137.2 | 908.8 | 2698.4 | 5011.0 | 4919.6 |
| 80° | 218.3 | 218.3 | 335.1 | 596.5 | 946.9 | 733.6 | 637.2 | 1147.4 | 1586.6 | 1393.6 |
| 82.5° | 121.8 | 124.4 | 243.7 | 370.6 | 627.0 | 434.1 | 350.3 | 530.5 | 685.4 | 606.7 |
| 85° | 50.8 | 55.8 | 149.8 | 175.2 | 299.5 | 215.8 | 142.2 | 223.4 | 253.8 | 225.9 |
| 87.5° | 5.1 | 7.6 | 45.7 | 33.0 | 35.5 | 43.2 | 20.3 | 43.2 | 35.5 | 35.5 |
| 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° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5841.1 | 0° | 5841.1 | 5841.1 | 5841.1 | 5841.1 | 5841.1 | 5841.1 | 5841.1 | 5841.1 | 5841.1 | 5841.1 |
| 5927.4 | 2.5° | 5879.1 | 5841.1 | 5744.6 | 5632.9 | 5485.7 | 5414.6 | 5318.1 | 5252.1 | 5196.3 | 5201.4 |
| 6074.6 | 5° | 5993.4 | 5896.9 | 5681.1 | 5412.1 | 5077.0 | 4838.4 | 4584.5 | 4409.4 | 4267.2 | 4236.7 |
| 6277.7 | 7.5° | 6150.8 | 5998.4 | 5620.2 | 5135.4 | 4569.3 | 4140.3 | 3757.0 | 3510.7 | 3335.6 | 3279.7 |
| 6523.9 | 10° | 6353.8 | 6133.0 | 5541.5 | 4787.6 | 3972.7 | 3427.0 | 3015.7 | 2822.8 | 2703.5 | 2662.9 |
| 6813.3 | 12.5° | 6589.9 | 6287.8 | 5437.4 | 4363.7 | 3358.4 | 2833.0 | 2571.5 | 2475.0 | 2436.9 | 2424.3 |
| 7168.7 | 15° | 6886.9 | 6480.8 | 5280.1 | 3861.0 | 2838.0 | 2469.9 | 2358.3 | 2345.6 | 2350.6 | 2345.6 |
| 7595.2 | 17.5° | 7239.8 | 6691.5 | 5023.7 | 3343.2 | 2487.7 | 2284.6 | 2244.0 | 2254.2 | 2266.9 | 2264.3 |
| 8072.4 | 20° | 7625.6 | 6899.6 | 4696.2 | 2883.7 | 2249.1 | 2152.6 | 2129.8 | 2139.9 | 2150.1 | 2145.0 |
| 8623.2 | 22.5° | 8064.8 | 7123.0 | 4333.2 | 2525.8 | 2089.2 | 2030.8 | 2005.4 | 2007.9 | 2007.9 | 1997.8 |
| 9321.3 | 25° | 8590.2 | 7369.2 | 3952.4 | 2271.9 | 1967.3 | 1921.6 | 1891.2 | 1881.0 | 1865.8 | 1835.3 |
| 10169.2 | 27.5° | 9217.2 | 7630.7 | 3586.9 | 2094.3 | 1870.9 | 1827.7 | 1792.2 | 1766.8 | 1728.7 | 1677.9 |
| 11187.1 | 30° | 9922.9 | 7948.0 | 3277.2 | 1982.6 | 1794.7 | 1751.6 | 1710.9 | 1672.9 | 1617.0 | 1553.6 |
| 12357.4 | 32.5° | 10753.0 | 8288.2 | 3051.3 | 1908.9 | 1726.2 | 1680.5 | 1632.2 | 1586.6 | 1525.6 | 1462.2 |
| 13672.3 | 35° | 11743.0 | 8699.4 | 2919.3 | 1858.2 | 1672.9 | 1611.9 | 1558.6 | 1507.9 | 1462.2 | 1406.3 |
| 15101.5 | 37.5° | 12816.8 | 9136.0 | 2878.6 | 1832.8 | 1637.3 | 1543.4 | 1482.5 | 1446.9 | 1441.9 | 1408.9 |
| 16647.4 | 40° | 13992.1 | 9653.9 | 2909.1 | 1817.6 | 1599.2 | 1477.4 | 1411.4 | 1403.8 | 1416.5 | 1358.1 |
| 18299.9 | 42.5° | 15236.0 | 10268.2 | 2959.9 | 1799.8 | 1545.9 | 1411.4 | 1347.9 | 1347.9 | 1337.8 | 1256.6 |
| 20046.4 | 45° | 16581.4 | 10976.4 | 3010.6 | 1756.6 | 1482.5 | 1345.4 | 1297.2 | 1279.4 | 1236.2 | 1157.5 |
| 21803.1 | 47.5° | 17936.9 | 11697.3 | 3048.7 | 1677.9 | 1406.3 | 1289.6 | 1246.4 | 1205.8 | 1142.3 | 1071.2 |
| 23526.7 | 50° | 19224.0 | 12344.7 | 3008.1 | 1561.2 | 1320.0 | 1236.2 | 1190.6 | 1134.7 | 1066.2 | 1017.9 |
| 25158.9 | 52.5° | 20373.9 | 12905.7 | 2835.5 | 1424.1 | 1228.6 | 1180.4 | 1139.8 | 1081.4 | 1025.5 | 974.8 |
| 26631.3 | 55° | 21374.1 | 13360.1 | 2530.9 | 1294.6 | 1147.4 | 1132.2 | 1091.5 | 1017.9 | 941.8 | 898.6 |
| 28090.9 | 57.5° | 22333.6 | 13705.3 | 2150.1 | 1188.0 | 1073.8 | 1078.9 | 1017.9 | 951.9 | 880.9 | 835.2 |
| 30058.2 | 60° | 23610.5 | 14167.3 | 1764.2 | 1089.0 | 995.1 | 1010.3 | 944.3 | 896.1 | 807.2 | 748.9 |
| 33431.9 | 62.5° | 25651.4 | 14885.7 | 1401.2 | 967.2 | 903.7 | 908.8 | 880.9 | 822.5 | 715.9 | 647.3 |
| 35932.3 | 65° | 27271.0 | 14621.7 | 1104.2 | 835.2 | 799.6 | 807.2 | 807.2 | 743.8 | 629.5 | 550.9 |
| 36066.8 | 67.5° | 27088.2 | 12519.8 | 880.9 | 705.7 | 700.6 | 705.7 | 723.5 | 670.2 | 558.5 | 495.0 |
| 33320.2 | 70° | 24953.3 | 9958.5 | 705.7 | 586.4 | 609.2 | 596.5 | 647.3 | 611.8 | 502.6 | 439.2 |
| 25831.6 | 72.5° | 20361.2 | 7173.8 | 538.2 | 484.9 | 467.1 | 487.4 | 583.9 | 550.9 | 418.9 | 347.8 |
| 13682.4 | 75° | 11897.9 | 3828.0 | 401.1 | 383.3 | 337.6 | 406.2 | 517.9 | 469.6 | 319.8 | 256.4 |
| 4193.6 | 77.5° | 3873.7 | 1335.2 | 294.5 | 281.8 | 251.3 | 327.5 | 441.7 | 396.0 | 261.5 | 203.1 |
| 1228.6 | 80° | 1038.2 | 403.6 | 200.5 | 185.3 | 162.5 | 243.7 | 350.3 | 314.8 | 187.8 | 132.0 |
| 528.0 | 82.5° | 416.3 | 170.1 | 116.8 | 104.1 | 88.8 | 167.5 | 276.7 | 253.8 | 139.6 | 83.8 |
| 165.0 | 85° | 134.5 | 55.8 | 43.2 | 33.0 | 40.6 | 104.1 | 165.0 | 172.6 | 99.0 | 43.2 |
| 25.4 | 87.5° | 17.8 | 7.6 | 7.6 | 10.2 | 7.6 | 17.8 | 50.8 | 48.2 | 27.9 | 5.1 |
| 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° |
|--------|
| 5841.1 |
| 5150.6 |
| 4168.2 |
| 3223.9 |
| 2632.4 |
| 2416.6 |
| 2343.0 |
| 2259.3 |
| 2142.5 |
| 1992.7 |
| 1830.2 |
| 1672.9 |
| 1548.5 |
| 1464.7 |
| 1401.2 |
| 1406.3 |
| 1360.6 |
| 1256.6 |
| 1155.0 |
| 1068.7 |
| 1010.3 |
| 969.7 |
| 893.5 |
| 830.1 |
| 741.2 |
| 642.2 |
| 543.2 |
| 484.9 |
| 431.5 |
| 340.2 |
| 248.8 |
| 195.5 |
| 129.5 |
| 83.8 |
| 33.0 |
| 0.0 |
| 0.0 |

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