

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: P850658

Luminaire Tested: **GLAN-SB8B-735-U-T3**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P850658
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-SB8B-735-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44713 lumens
Efficiency: N/A
Efficacy: 152.7 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

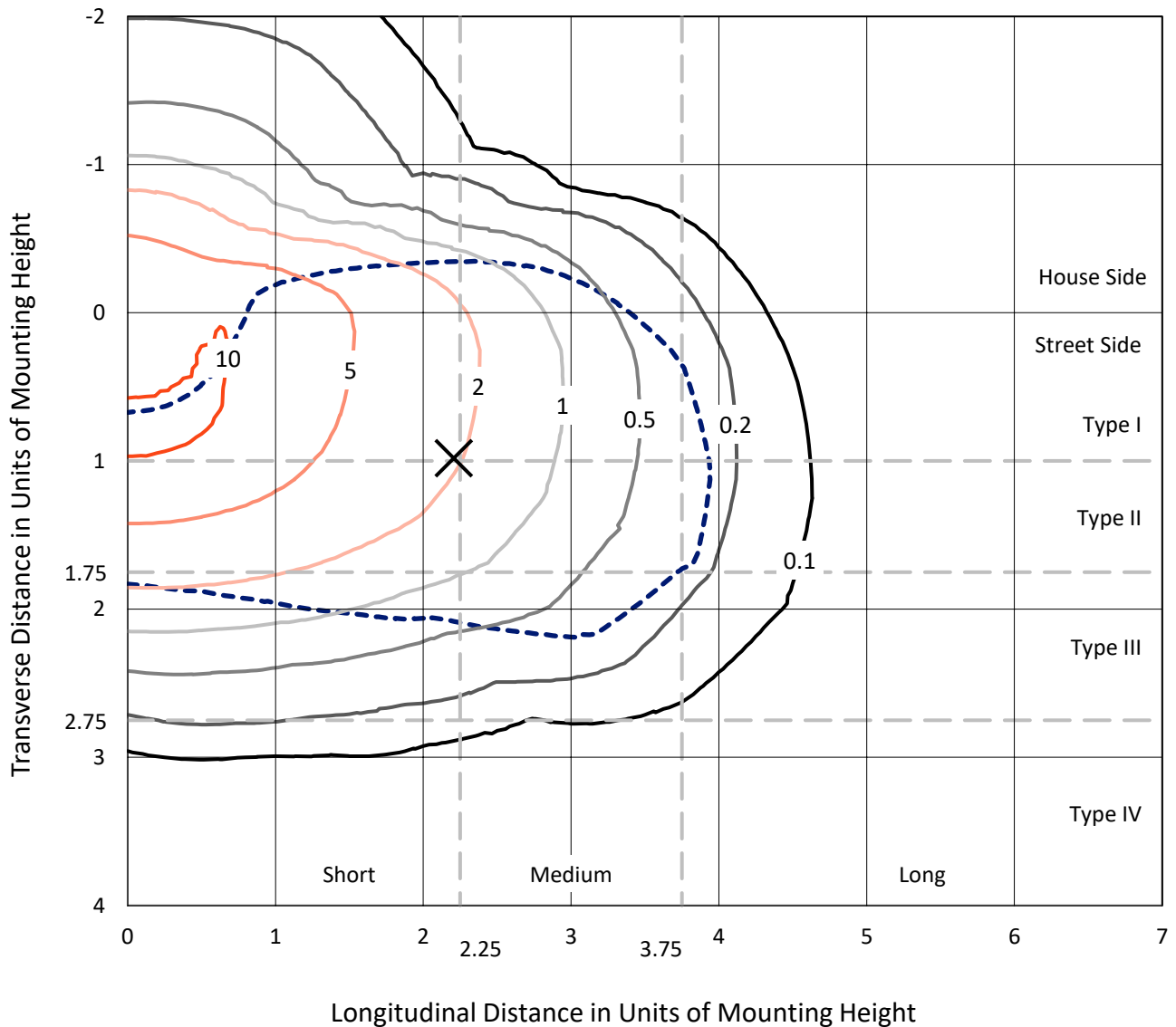
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

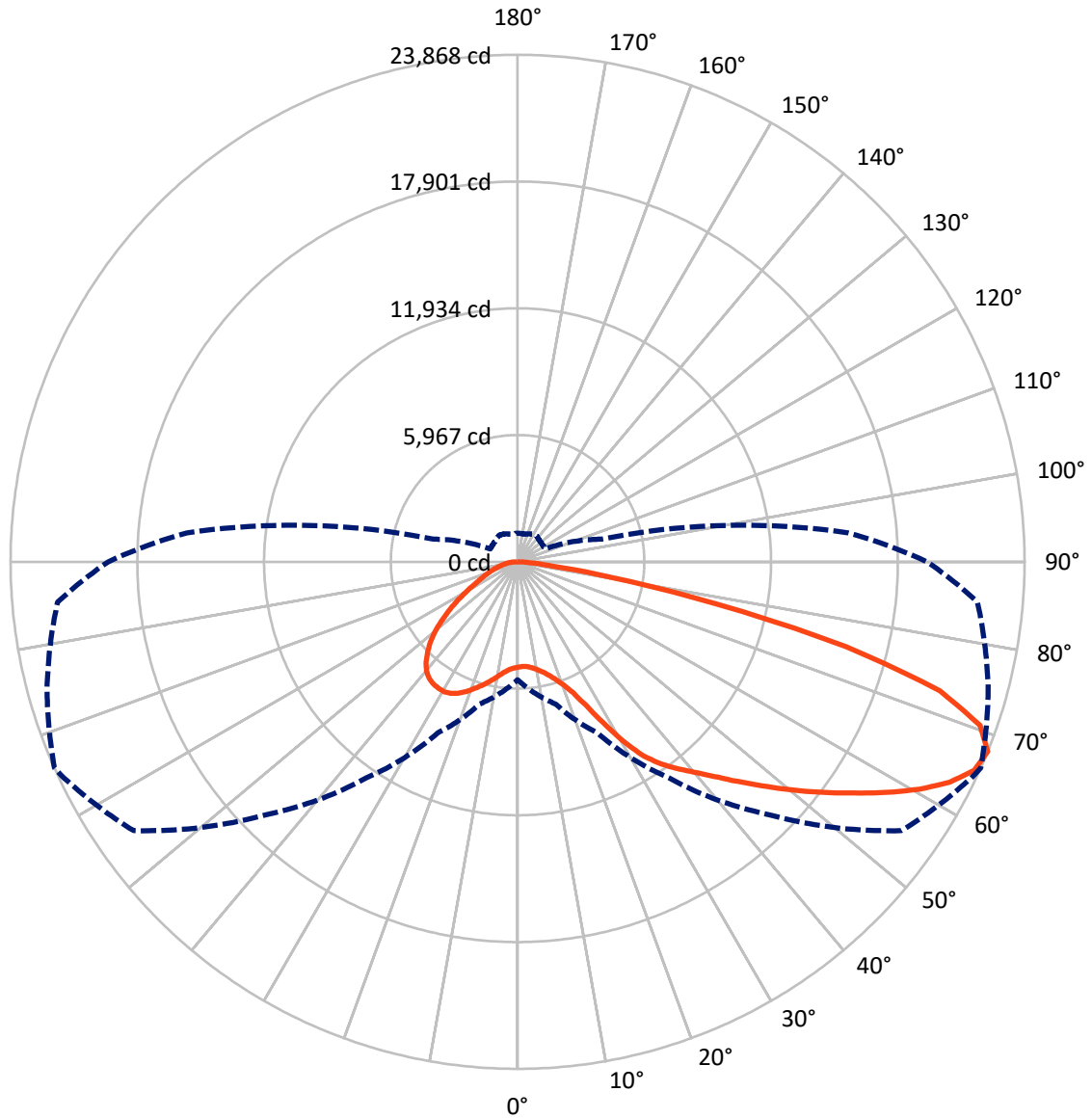
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 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 | 11117.8 | 0.0 | 11117.8 |
| | % Fixture | 24.9 | 0.0 | 24.9 |
| Street Side | Lumens | 33595.2 | 0.0 | 33595.2 |
| | % Fixture | 75.1 | 0.0 | 75.1 |
| Total | Lumens | 44713.0 | 0.0 | 44713.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 491.7 | 1.1 |
| 10°-20° | 1624.5 | 3.6 |
| 20°-30° | 3131.1 | 7.0 |
| 30°-40° | 5490.0 | 12.3 |
| 40°-50° | 8161.8 | 18.3 |
| 50°-60° | 10345.9 | 23.1 |
| 60°-70° | 10123.2 | 22.6 |
| 70°-80° | 4828.8 | 10.8 |
| 80°-90° | 516.1 | 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° | 44713.0 | 100.0 |
| 0°-180° | 44713.0 | 100.0 |

Coefficient of Utilization

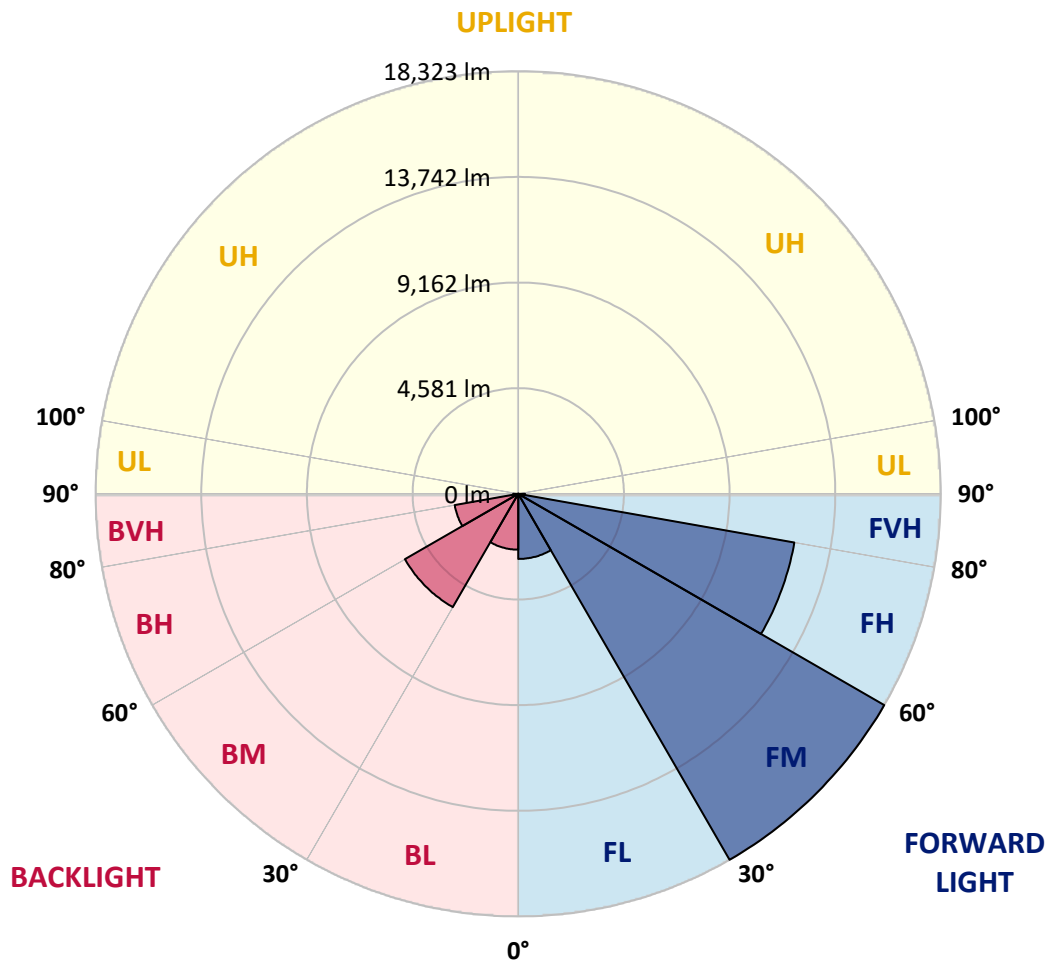


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2825.4 | 6.3 | | | |
| FM (30°-60°) | 18323.0 | 41.0 | | | |
| FH (60°-80°) | 12154.2 | 27.2 | | | G5 |
| FVH (80°-90°) | 292.6 | 0.7 | | | G3/500 |
| BL (0°-30°) | 2421.8 | 5.4 | B3/2500 | | |
| BM (30°-60°) | 5674.6 | 12.7 | B4/8500 | | |
| BH (60°-80°) | 2797.8 | 6.3 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 223.5 | 0.5 | | | G2/225 |
| 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° | 4959.3 | 4959.3 | 4959.3 | 4959.3 | 4959.3 | 4959.3 | 4959.3 | 4959.3 | 4959.3 | 4959.3 |
| 2.5° | 4907.6 | 4935.8 | 4928.7 | 4917.0 | 4914.6 | 4919.3 | 4926.4 | 4933.4 | 4931.1 | 4942.8 |
| 5° | 4893.5 | 4921.7 | 4919.3 | 4919.3 | 4928.7 | 4947.5 | 4959.3 | 4971.0 | 4959.3 | 4973.4 |
| 7.5° | 4902.9 | 4924.0 | 4933.4 | 4942.8 | 4966.3 | 5001.5 | 5029.7 | 5055.6 | 5041.5 | 5057.9 |
| 10° | 5022.7 | 5039.1 | 5048.5 | 5048.5 | 5065.0 | 5104.9 | 5133.1 | 5180.1 | 5168.3 | 5194.2 |
| 12.5° | 5241.2 | 5257.6 | 5257.6 | 5248.2 | 5260.0 | 5285.8 | 5295.2 | 5346.9 | 5325.7 | 5368.0 |
| 15° | 5509.0 | 5541.9 | 5516.0 | 5499.6 | 5504.3 | 5530.1 | 5527.8 | 5567.7 | 5546.6 | 5581.8 |
| 17.5° | 5805.0 | 5847.3 | 5805.0 | 5802.6 | 5793.2 | 5821.4 | 5823.8 | 5859.0 | 5821.4 | 5847.3 |
| 20° | 6155.0 | 6213.8 | 6178.5 | 6190.3 | 6169.1 | 6180.9 | 6192.6 | 6244.3 | 6185.6 | 6204.4 |
| 22.5° | 6648.4 | 6718.8 | 6681.3 | 6725.9 | 6711.8 | 6702.4 | 6700.1 | 6791.7 | 6700.1 | 6707.1 |
| 25° | 7367.2 | 7451.8 | 7386.0 | 7447.1 | 7447.1 | 7477.7 | 7512.9 | 7630.4 | 7477.7 | 7433.0 |
| 27.5° | 8429.1 | 8513.7 | 8384.5 | 8422.1 | 8410.3 | 8485.5 | 8447.9 | 8739.2 | 8574.8 | 8501.9 |
| 30° | 9707.1 | 9857.4 | 9613.1 | 9603.7 | 9592.0 | 9711.8 | 9765.8 | 9958.5 | 9791.7 | 9718.8 |
| 32.5° | 11088.5 | 11245.9 | 10954.5 | 10870.0 | 10825.3 | 10898.2 | 10853.5 | 11008.6 | 10893.5 | 10780.7 |
| 35° | 12549.7 | 12704.7 | 12427.5 | 12263.1 | 12084.5 | 11931.8 | 11772.1 | 11812.0 | 11704.0 | 11532.5 |
| 37.5° | 13931.0 | 14215.3 | 13921.6 | 13745.5 | 13416.6 | 13118.2 | 12671.8 | 12486.3 | 12385.2 | 12227.8 |
| 40° | 15338.2 | 15500.3 | 15277.2 | 15126.8 | 14769.7 | 14302.2 | 13588.1 | 13195.7 | 13059.5 | 12906.8 |
| 42.5° | 16374.3 | 16529.3 | 16409.5 | 16306.1 | 16026.6 | 15483.9 | 14560.6 | 14069.6 | 13872.3 | 13700.8 |
| 45° | 17196.5 | 17311.6 | 17236.4 | 17274.0 | 17154.2 | 16628.0 | 15568.5 | 15007.0 | 14802.6 | 14593.5 |
| 47.5° | 17527.7 | 17649.9 | 17769.7 | 17992.9 | 18197.3 | 17809.6 | 16651.5 | 16021.9 | 15805.7 | 15592.0 |
| 50° | 17490.2 | 17614.7 | 17962.4 | 18436.9 | 19071.2 | 18942.0 | 17793.2 | 17102.5 | 16902.8 | 16658.5 |
| 52.5° | 17189.4 | 17330.4 | 17776.8 | 18566.1 | 19576.3 | 19790.1 | 18956.1 | 18218.4 | 18030.5 | 17739.2 |
| 55° | 16400.1 | 16484.7 | 17154.2 | 18272.5 | 19696.1 | 20382.1 | 20095.5 | 19407.1 | 19219.2 | 18812.8 |
| 57.5° | 14936.5 | 15058.7 | 16033.6 | 17480.8 | 19395.4 | 20783.8 | 21096.2 | 20656.9 | 20476.0 | 19891.1 |
| 60° | 13026.6 | 13221.6 | 14337.5 | 16151.1 | 18629.5 | 20781.4 | 22005.4 | 21885.6 | 21735.2 | 20952.9 |
| 62.5° | 10865.3 | 11090.8 | 12164.4 | 14271.7 | 17290.5 | 20191.8 | 22573.9 | 22914.6 | 22837.0 | 21932.6 |
| 65° | 8344.5 | 8499.6 | 9568.5 | 11840.2 | 15206.7 | 18925.5 | 22639.7 | 23617.0 | 23631.1 | 22677.3 |
| 67.5° | 5556.0 | 6002.3 | 6930.3 | 8884.9 | 12415.8 | 16855.9 | 22061.8 | 23732.1 | 23868.4 | 22933.4 |
| 70° | 2711.0 | 3298.3 | 4207.5 | 5774.5 | 8884.9 | 13682.0 | 20551.2 | 22787.7 | 23090.8 | 22186.3 |
| 72.5° | 1125.3 | 1315.6 | 1811.3 | 2849.6 | 5100.2 | 9232.5 | 17516.0 | 20227.0 | 20788.5 | 19658.5 |
| 75° | 758.8 | 822.2 | 1036.0 | 1461.2 | 2323.4 | 4552.8 | 12631.9 | 15082.2 | 15986.6 | 14847.2 |
| 77.5° | 585.0 | 624.9 | 754.1 | 1021.9 | 1381.4 | 1722.0 | 6761.1 | 9089.2 | 9556.7 | 8847.3 |
| 80° | 460.5 | 491.0 | 563.8 | 744.7 | 979.6 | 920.9 | 2304.6 | 4118.2 | 4388.4 | 3681.3 |
| 82.5° | 399.4 | 411.1 | 404.1 | 505.1 | 650.7 | 538.0 | 756.5 | 1520.0 | 1677.4 | 1216.9 |
| 85° | 289.0 | 321.8 | 335.9 | 312.4 | 345.3 | 272.5 | 310.1 | 538.0 | 592.0 | 528.6 |
| 87.5° | 117.5 | 173.8 | 213.8 | 202.0 | 126.9 | 77.5 | 96.3 | 157.4 | 180.9 | 197.3 |
| 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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CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| 4959.3 | 0° | 4959.3 | 4959.3 | 4959.3 | 4959.3 | 4959.3 | 4959.3 | 4959.3 | 4959.3 | 4959.3 | 4959.3 |
| 4961.6 | 2.5° | 4964.0 | 4980.4 | 4992.2 | 5006.2 | 5015.6 | 5029.7 | 5057.9 | 5074.4 | 5076.7 | 5088.5 |
| 4999.2 | 5° | 5008.6 | 5032.1 | 5057.9 | 5095.5 | 5137.8 | 5173.0 | 5227.1 | 5264.7 | 5278.8 | 5290.5 |
| 5090.8 | 7.5° | 5104.9 | 5137.8 | 5184.8 | 5250.6 | 5311.6 | 5358.6 | 5424.4 | 5469.0 | 5513.7 | 5530.1 |
| 5236.5 | 10° | 5248.2 | 5295.2 | 5363.3 | 5452.6 | 5518.4 | 5579.5 | 5647.6 | 5685.2 | 5729.8 | 5748.6 |
| 5410.3 | 12.5° | 5426.8 | 5476.1 | 5565.4 | 5689.9 | 5751.0 | 5793.2 | 5816.7 | 5807.3 | 5816.7 | 5833.2 |
| 5619.4 | 15° | 5631.1 | 5685.2 | 5786.2 | 5920.1 | 5962.4 | 5924.8 | 5873.1 | 5826.1 | 5819.1 | 5823.8 |
| 5873.1 | 17.5° | 5873.1 | 5913.1 | 6030.5 | 6143.3 | 6112.7 | 5957.7 | 5844.9 | 5769.8 | 5732.2 | 5720.4 |
| 6197.3 | 20° | 6211.4 | 6211.4 | 6307.7 | 6378.2 | 6173.8 | 5910.7 | 5734.5 | 5612.4 | 5534.8 | 5501.9 |
| 6639.0 | 22.5° | 6622.5 | 6584.9 | 6646.0 | 6596.7 | 6162.1 | 5779.2 | 5534.8 | 5323.4 | 5205.9 | 5158.9 |
| 7256.8 | 25° | 7144.1 | 7099.4 | 7083.0 | 6777.6 | 6077.5 | 5570.1 | 5173.0 | 4917.0 | 4813.6 | 4787.8 |
| 8147.2 | 27.5° | 7931.1 | 7818.3 | 7604.5 | 6876.2 | 5922.5 | 5241.2 | 4750.2 | 4512.9 | 4454.2 | 4456.5 |
| 9291.3 | 30° | 8978.8 | 8753.3 | 8229.4 | 6892.7 | 5668.7 | 4776.0 | 4317.9 | 4148.8 | 4120.6 | 4132.3 |
| 10252.1 | 32.5° | 9949.1 | 9735.3 | 8868.4 | 6817.5 | 5278.8 | 4320.3 | 3930.3 | 3817.5 | 3775.2 | 3789.3 |
| 10985.1 | 35° | 10710.2 | 10651.5 | 9460.4 | 6711.8 | 4799.5 | 3892.7 | 3582.6 | 3486.3 | 3404.1 | 3385.3 |
| 11675.8 | 37.5° | 11429.1 | 11405.6 | 9904.4 | 6563.8 | 4325.0 | 3589.7 | 3303.0 | 3176.2 | 3056.4 | 2990.6 |
| 12439.3 | 40° | 12218.4 | 12194.9 | 10195.7 | 6335.9 | 3904.5 | 3326.5 | 3051.7 | 2884.9 | 2736.9 | 2617.1 |
| 13303.8 | 42.5° | 13106.5 | 12967.8 | 10334.3 | 6009.4 | 3547.4 | 3103.4 | 2847.3 | 2621.8 | 2426.8 | 2316.4 |
| 14281.1 | 45° | 14076.7 | 13764.2 | 10332.0 | 5593.6 | 3246.7 | 2899.0 | 2628.8 | 2309.3 | 2128.4 | 2025.1 |
| 15284.2 | 47.5° | 15105.7 | 14525.4 | 10205.1 | 5133.1 | 2955.4 | 2673.4 | 2290.5 | 2046.2 | 1926.4 | 1863.0 |
| 16374.3 | 50° | 16167.5 | 15237.2 | 9989.0 | 4604.5 | 2657.0 | 2417.4 | 2079.1 | 1912.3 | 1820.7 | 1761.9 |
| 17454.9 | 52.5° | 17166.0 | 15883.3 | 9728.2 | 4005.5 | 2353.9 | 2168.4 | 1985.1 | 1855.9 | 1759.6 | 1693.8 |
| 18502.7 | 55° | 18093.9 | 16440.0 | 9359.4 | 3392.3 | 2107.3 | 2001.6 | 1940.5 | 1832.4 | 1722.0 | 1644.5 |
| 19566.9 | 57.5° | 18918.5 | 16801.8 | 8722.8 | 2816.7 | 1931.1 | 1886.4 | 1893.5 | 1792.5 | 1665.6 | 1599.8 |
| 20614.7 | 60° | 19604.5 | 17067.3 | 7780.7 | 2283.5 | 1787.8 | 1773.7 | 1820.7 | 1717.3 | 1569.3 | 1494.1 |
| 21500.3 | 62.5° | 20015.6 | 17062.6 | 6624.9 | 1870.0 | 1665.6 | 1670.3 | 1724.3 | 1623.3 | 1473.0 | 1402.5 |
| 21963.1 | 65° | 19980.4 | 16644.4 | 5356.3 | 1599.8 | 1548.2 | 1552.9 | 1623.3 | 1520.0 | 1393.1 | 1350.8 |
| 21730.5 | 67.5° | 19273.2 | 15624.8 | 4108.8 | 1423.6 | 1418.9 | 1440.1 | 1522.3 | 1449.5 | 1343.8 | 1339.1 |
| 20344.5 | 70° | 17358.6 | 13508.2 | 2960.1 | 1282.7 | 1285.0 | 1315.6 | 1423.6 | 1404.9 | 1317.9 | 1327.3 |
| 17104.9 | 72.5° | 13919.3 | 10299.1 | 1987.5 | 1134.7 | 1137.0 | 1186.4 | 1329.7 | 1369.6 | 1292.1 | 1416.6 |
| 12136.2 | 75° | 9270.1 | 6422.8 | 1278.0 | 977.3 | 979.6 | 1043.1 | 1247.5 | 1301.5 | 1221.6 | 1411.9 |
| 6314.8 | 77.5° | 4454.2 | 2887.2 | 925.6 | 822.2 | 822.2 | 881.0 | 1078.3 | 1165.2 | 1040.7 | 1097.1 |
| 2029.8 | 80° | 1538.8 | 1085.4 | 728.3 | 662.5 | 648.4 | 688.3 | 909.2 | 1010.2 | 897.4 | 826.9 |
| 662.5 | 82.5° | 606.1 | 563.8 | 585.0 | 514.5 | 467.5 | 493.3 | 707.1 | 834.0 | 660.1 | 596.7 |
| 373.5 | 85° | 347.7 | 366.5 | 413.5 | 340.6 | 270.2 | 303.1 | 519.2 | 599.1 | 498.0 | 439.3 |
| 122.2 | 87.5° | 94.0 | 129.2 | 190.3 | 176.2 | 122.2 | 129.2 | 246.7 | 331.2 | 286.6 | 220.8 |
| 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° |
|--------|
| 4959.3 |
| 5086.1 |
| 5288.2 |
| 5532.5 |
| 5758.0 |
| 5837.9 |
| 5840.2 |
| 5736.9 |
| 5494.9 |
| 5151.9 |
| 4792.5 |
| 4463.6 |
| 4172.3 |
| 3808.1 |
| 3399.4 |
| 2992.9 |
| 2628.8 |
| 2323.4 |
| 2020.4 |
| 1848.9 |
| 1740.8 |
| 1665.6 |
| 1613.9 |
| 1557.6 |
| 1461.2 |
| 1381.4 |
| 1348.5 |
| 1346.1 |
| 1325.0 |
| 1435.4 |
| 1423.6 |
| 1005.5 |
| 775.3 |
| 594.4 |
| 448.7 |
| 227.9 |
| 0.0 |

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