

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: P850296

Luminaire Tested: **GLAN-SB7D-727-U-T2**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P850296
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB7D-727-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63769 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B5 - U0 - G5

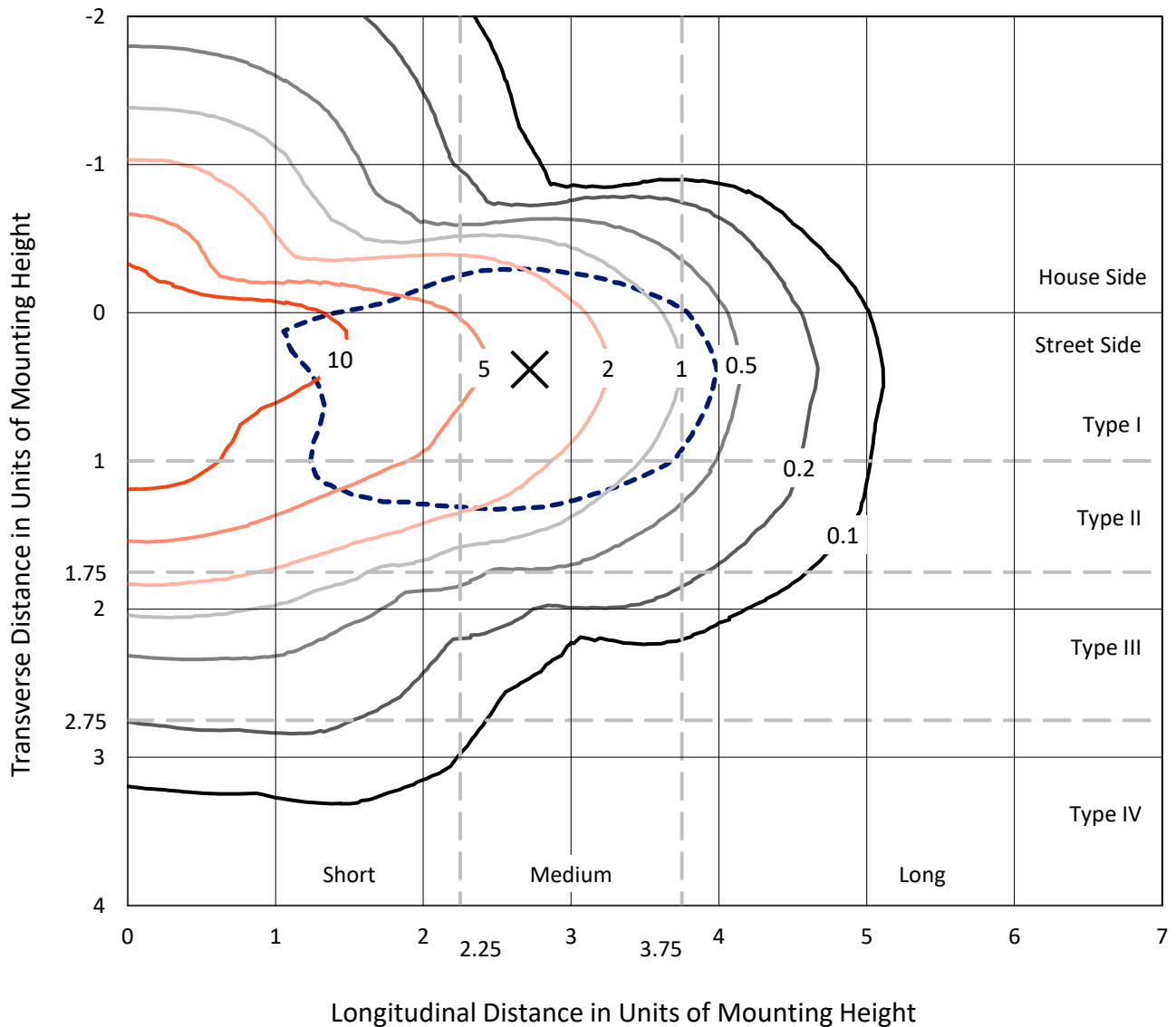
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

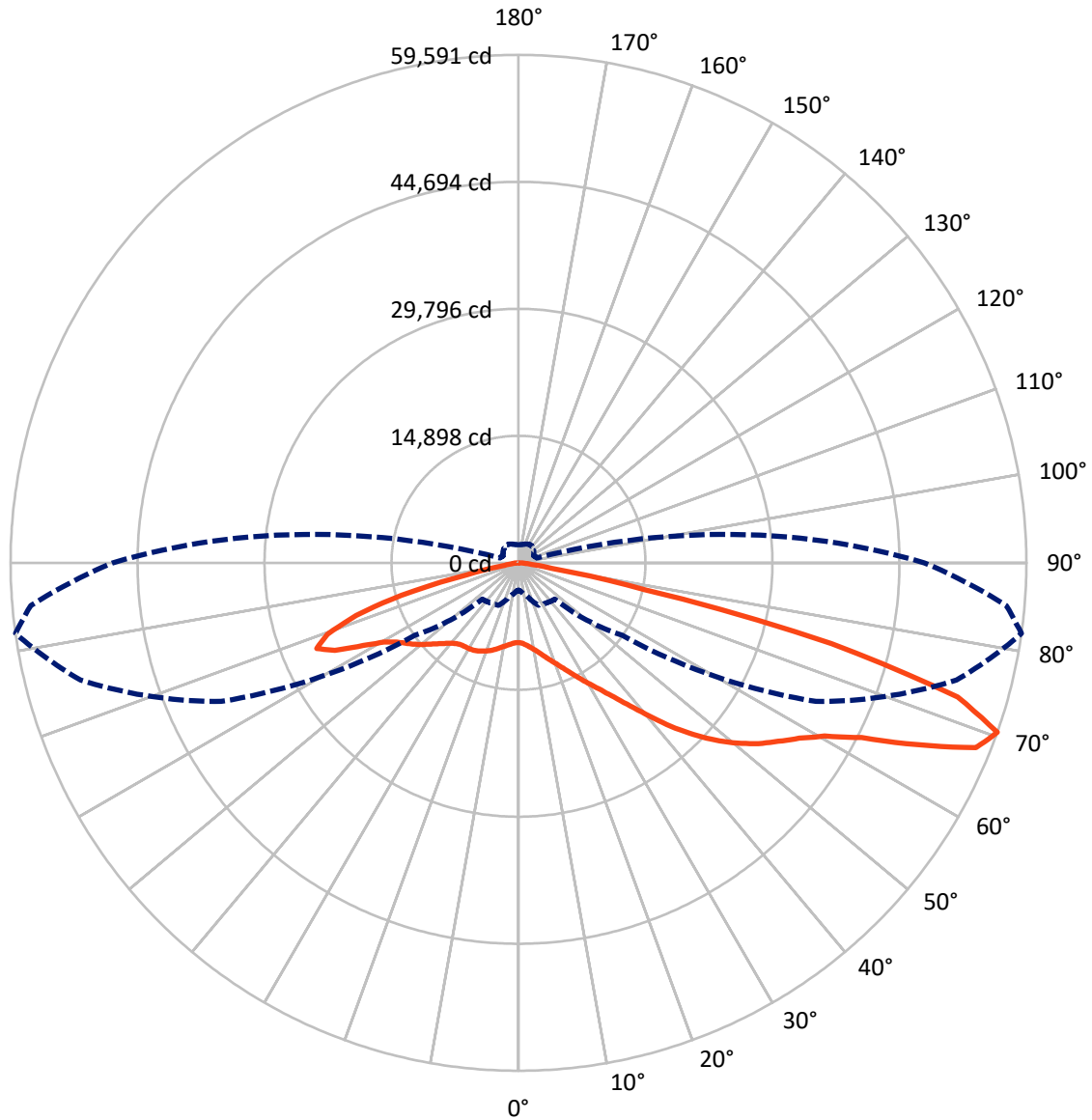
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 15720.6 | 0.0 | 15720.6 |
| | % Fixture | 24.7 | 0.0 | 24.7 |
| Street Side | Lumens | 48048.4 | 0.0 | 48048.4 |
| | % Fixture | 75.3 | 0.0 | 75.3 |
| Total | Lumens | 63769.0 | 0.0 | 63769.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 882.7 | 1.4 |
| 10°-20° | 2536.2 | 4.0 |
| 20°-30° | 4242.8 | 6.7 |
| 30°-40° | 6628.3 | 10.4 |
| 40°-50° | 10556.3 | 16.6 |
| 50°-60° | 14690.4 | 23.0 |
| 60°-70° | 15366.8 | 24.1 |
| 70°-80° | 8031.5 | 12.6 |
| 80°-90° | 834.0 | 1.3 |
| 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° | 63769.0 | 100.0 |
| 0°-180° | 63769.0 | 100.0 |

Coefficient of Utilization



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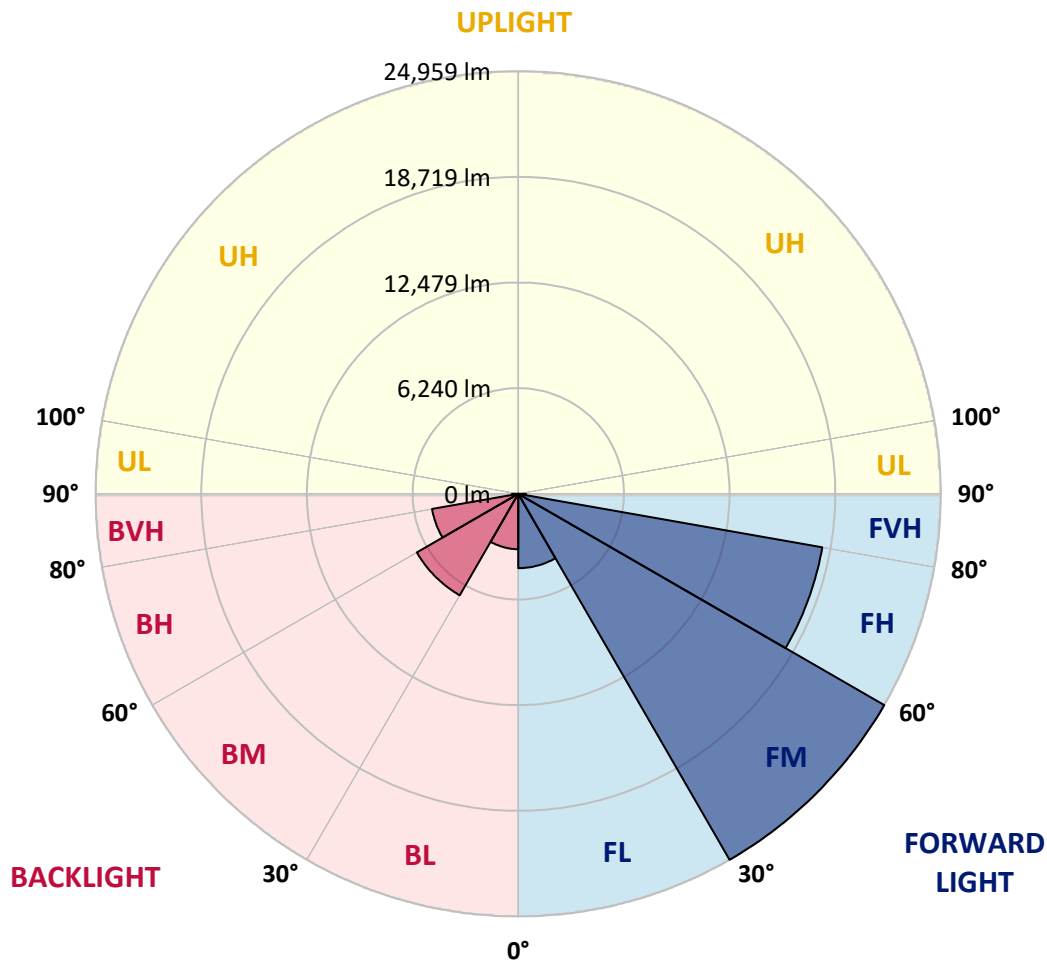
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 4391.2 | 6.9 | | | |
| FM (30°-60°) | 24958.5 | 39.1 | | | |
| FH (60°-80°) | 18231.8 | 28.6 | | | G5 |
| FVH (80°-90°) | 466.9 | 0.7 | | | G3/500 |
| BL (0°-30°) | 3270.5 | 5.1 | B4/5000 | | |
| BM (30°-60°) | 6916.5 | 10.8 | B4/8500 | | |
| BH (60°-80°) | 5166.6 | 8.1 | B5 | | G5 |
| BVH (80°-90°) | 367.1 | 0.6 | | | 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 II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 82° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 9349.3 | 9349.3 | 9349.3 | 9349.3 | 9349.3 | 9349.3 | 9349.3 | 9349.3 | 9349.3 | 9349.3 |
| 2.5° | 9572.7 | 9626.8 | 9609.9 | 9593.0 | 9593.0 | 9569.3 | 9565.9 | 9532.1 | 9505.0 | 9461.0 |
| 5° | 9694.5 | 9752.0 | 9745.2 | 9758.8 | 9802.8 | 9812.9 | 9823.1 | 9802.8 | 9748.6 | 9694.5 |
| 7.5° | 9586.2 | 9650.5 | 9670.8 | 9752.0 | 9887.4 | 10009.2 | 10100.5 | 10137.7 | 10087.0 | 10009.2 |
| 10° | 9220.7 | 9291.8 | 9362.9 | 9555.7 | 9796.0 | 10083.6 | 10327.2 | 10472.7 | 10462.6 | 10388.1 |
| 12.5° | 8479.7 | 8554.1 | 8706.4 | 9082.0 | 9521.9 | 10029.5 | 10482.9 | 10787.4 | 10892.3 | 10838.2 |
| 15° | 7887.5 | 7951.8 | 8066.9 | 8452.6 | 9024.5 | 9796.0 | 10540.4 | 11132.6 | 11399.9 | 11369.4 |
| 17.5° | 7870.6 | 7897.7 | 7968.8 | 8151.5 | 8591.4 | 9430.5 | 10479.5 | 11471.0 | 11981.9 | 11978.5 |
| 20° | 8168.4 | 8178.6 | 8219.2 | 8256.4 | 8506.8 | 9153.1 | 10323.9 | 11751.8 | 12635.0 | 12635.0 |
| 22.5° | 8581.2 | 8574.5 | 8615.1 | 8581.2 | 8703.0 | 9129.4 | 10225.7 | 11998.8 | 13362.5 | 13416.6 |
| 25° | 9200.4 | 9166.6 | 9156.5 | 9078.6 | 9102.3 | 9349.3 | 10334.0 | 12279.7 | 14225.3 | 14337.0 |
| 27.5° | 10026.1 | 9971.9 | 9934.7 | 9755.4 | 9694.5 | 9802.8 | 10665.6 | 12618.0 | 15186.3 | 15379.2 |
| 30° | 11102.1 | 11004.0 | 10949.9 | 10638.5 | 10418.6 | 10435.5 | 11166.4 | 13068.1 | 16191.3 | 16502.6 |
| 32.5° | 12570.7 | 12418.4 | 12272.9 | 11762.0 | 11359.3 | 11227.3 | 11812.7 | 13690.7 | 17280.9 | 17778.3 |
| 35° | 14215.2 | 14093.4 | 13937.7 | 13149.3 | 12530.1 | 12225.5 | 12685.7 | 14560.3 | 18556.5 | 19345.0 |
| 37.5° | 15798.8 | 15693.9 | 15768.3 | 14705.8 | 13907.3 | 13464.0 | 13829.4 | 15727.7 | 20130.0 | 21294.0 |
| 40° | 17436.5 | 17355.3 | 17365.5 | 16350.3 | 15419.8 | 14922.4 | 15216.8 | 17192.9 | 21933.5 | 23611.9 |
| 42.5° | 19216.4 | 19155.5 | 18952.4 | 18052.4 | 17006.8 | 16543.2 | 16813.9 | 18884.8 | 23869.1 | 26251.2 |
| 45° | 21209.4 | 21172.2 | 20982.7 | 19950.7 | 18752.8 | 18231.7 | 18597.2 | 20752.6 | 25814.7 | 28734.9 |
| 47.5° | 22931.8 | 22962.2 | 22938.5 | 22068.9 | 20827.1 | 20062.3 | 20498.8 | 22701.7 | 27625.0 | 31069.7 |
| 50° | 23760.8 | 23919.8 | 24153.3 | 23882.6 | 23111.1 | 22332.8 | 22417.4 | 24583.0 | 29350.7 | 33259.0 |
| 52.5° | 23327.7 | 23628.8 | 24265.0 | 24698.1 | 24995.8 | 24833.4 | 24606.7 | 26450.9 | 30975.0 | 35235.1 |
| 55° | 21713.6 | 22136.6 | 23192.3 | 24237.9 | 25757.2 | 26938.1 | 27235.9 | 28521.7 | 32558.6 | 36974.4 |
| 57.5° | 18773.1 | 19460.0 | 20407.5 | 22522.3 | 25080.4 | 27956.6 | 30301.6 | 31394.5 | 34236.9 | 38832.0 |
| 60° | 13731.3 | 14651.7 | 15829.2 | 18976.1 | 22711.8 | 27411.9 | 32910.5 | 35807.0 | 36622.4 | 41237.9 |
| 62.5° | 8787.6 | 9356.1 | 10438.9 | 13403.1 | 17697.1 | 24620.2 | 33709.0 | 41322.5 | 40666.0 | 45183.4 |
| 65° | 6016.3 | 6381.8 | 7373.2 | 9038.0 | 11440.5 | 18326.5 | 31570.5 | 45457.5 | 47088.4 | 51436.6 |
| 67.5° | 4371.8 | 4649.3 | 5495.2 | 6953.6 | 7454.4 | 10845.0 | 24498.4 | 45268.0 | 53331.5 | 57879.2 |
| 70° | 3187.5 | 3383.8 | 4094.4 | 5495.2 | 5735.5 | 6033.2 | 14841.2 | 38480.1 | 53196.1 | 59591.4 |
| 72.5° | 2361.9 | 2497.2 | 2974.3 | 4263.5 | 4642.5 | 4074.0 | 7346.1 | 27966.8 | 45711.2 | 53899.9 |
| 75° | 1708.8 | 1810.3 | 2162.2 | 3261.9 | 3715.4 | 3102.9 | 3664.6 | 16343.6 | 31885.2 | 37915.0 |
| 77.5° | 1306.1 | 1384.0 | 1614.1 | 2388.9 | 2974.3 | 2328.0 | 2273.9 | 7518.7 | 15118.6 | 15193.1 |
| 80° | 1049.0 | 1099.7 | 1224.9 | 1681.7 | 2280.7 | 1742.6 | 1482.1 | 3035.2 | 4777.9 | 4043.6 |
| 82.5° | 771.5 | 856.1 | 1035.4 | 1180.9 | 1631.0 | 1201.2 | 903.5 | 1532.8 | 1817.1 | 1563.3 |
| 85° | 439.9 | 497.4 | 626.0 | 845.9 | 1042.2 | 734.3 | 517.7 | 680.1 | 845.9 | 693.7 |
| 87.5° | 155.7 | 203.0 | 219.9 | 331.6 | 453.4 | 304.5 | 199.6 | 196.3 | 277.5 | 206.4 |
| 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° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 9349.3 | 0° | 9349.3 | 9349.3 | 9349.3 | 9349.3 | 9349.3 | 9349.3 | 9349.3 | 9349.3 | 9349.3 | 9349.3 |
| 9450.8 | 2.5° | 9417.0 | 9400.1 | 9332.4 | 9241.1 | 9146.3 | 9054.9 | 9024.5 | 8960.2 | 8916.2 | 8892.5 |
| 9670.8 | 5° | 9606.5 | 9552.4 | 9393.3 | 9190.3 | 8977.1 | 8747.0 | 8584.6 | 8435.7 | 8327.4 | 8225.9 |
| 9971.9 | 7.5° | 9877.2 | 9782.5 | 9508.4 | 9153.1 | 8774.1 | 8391.7 | 8107.5 | 7890.9 | 7745.4 | 7650.7 |
| 10323.9 | 10° | 10191.9 | 10046.4 | 9626.8 | 9095.6 | 8510.2 | 7962.0 | 7627.0 | 7440.9 | 7349.5 | 7298.8 |
| 10726.5 | 12.5° | 10554.0 | 10347.5 | 9748.6 | 8963.6 | 8107.5 | 7481.5 | 7251.4 | 7197.3 | 7200.6 | 7204.0 |
| 11234.1 | 15° | 11000.6 | 10713.0 | 9846.7 | 8676.0 | 7583.0 | 7112.7 | 7072.1 | 7160.0 | 7251.4 | 7295.4 |
| 11809.3 | 17.5° | 11504.8 | 11098.7 | 9863.7 | 8202.2 | 7068.7 | 6875.8 | 7004.4 | 7193.9 | 7332.6 | 7393.5 |
| 12452.2 | 20° | 12046.2 | 11491.3 | 9741.8 | 7532.3 | 6645.7 | 6682.9 | 6913.0 | 7156.7 | 7308.9 | 7386.8 |
| 13186.5 | 22.5° | 12665.4 | 11910.8 | 9450.8 | 6828.4 | 6300.6 | 6473.1 | 6743.8 | 6980.7 | 7139.7 | 7217.6 |
| 14049.4 | 25° | 13372.6 | 12381.2 | 8994.0 | 6236.3 | 6002.8 | 6236.3 | 6507.0 | 6703.2 | 6831.8 | 6902.9 |
| 15013.7 | 27.5° | 14157.7 | 12871.8 | 8385.0 | 5765.9 | 5742.2 | 5992.6 | 6216.0 | 6368.2 | 6435.9 | 6490.1 |
| 16039.0 | 30° | 14946.1 | 13318.5 | 7647.3 | 5410.6 | 5515.5 | 5752.4 | 5911.4 | 5979.1 | 5999.4 | 6009.6 |
| 17182.7 | 32.5° | 15798.8 | 13704.2 | 6872.4 | 5116.2 | 5299.0 | 5518.9 | 5613.7 | 5644.1 | 5549.4 | 5485.1 |
| 18570.1 | 35° | 16830.8 | 14117.1 | 6114.5 | 4882.8 | 5085.8 | 5275.3 | 5305.7 | 5278.7 | 5167.0 | 5035.0 |
| 20309.3 | 37.5° | 18106.5 | 14631.4 | 5508.8 | 4717.0 | 4886.2 | 5011.4 | 4974.1 | 4967.4 | 4977.5 | 4821.9 |
| 22400.5 | 40° | 19669.8 | 15301.4 | 5065.5 | 4588.4 | 4723.7 | 4750.8 | 4645.9 | 4703.4 | 4754.2 | 4517.3 |
| 24694.7 | 42.5° | 21405.7 | 16110.1 | 4784.6 | 4500.4 | 4588.4 | 4524.1 | 4361.7 | 4426.0 | 4419.2 | 4107.9 |
| 26999.0 | 45° | 23175.4 | 16989.9 | 4686.5 | 4436.1 | 4463.2 | 4334.6 | 4155.3 | 4172.2 | 4030.1 | 3749.2 |
| 29208.6 | 47.5° | 24934.9 | 17933.9 | 4747.4 | 4382.0 | 4307.5 | 4162.0 | 4023.3 | 3948.8 | 3739.1 | 3529.3 |
| 31326.9 | 50° | 26660.7 | 18925.4 | 4970.7 | 4273.7 | 4094.4 | 4009.8 | 3908.2 | 3776.3 | 3552.9 | 3373.6 |
| 33330.0 | 52.5° | 28261.2 | 19923.6 | 5221.1 | 4094.4 | 3827.0 | 3877.8 | 3813.5 | 3661.2 | 3441.3 | 3258.6 |
| 35225.0 | 55° | 29777.1 | 20921.8 | 5319.3 | 3847.3 | 3576.6 | 3762.7 | 3725.5 | 3444.7 | 3180.7 | 3031.9 |
| 37207.8 | 57.5° | 31428.4 | 22123.0 | 5211.0 | 3532.6 | 3373.6 | 3630.8 | 3488.7 | 3177.4 | 3025.1 | 2913.4 |
| 39789.7 | 60° | 33715.8 | 24007.8 | 4977.5 | 3143.5 | 3180.7 | 3434.5 | 3190.9 | 3062.3 | 2896.5 | 2771.3 |
| 43660.7 | 62.5° | 37515.8 | 27523.5 | 4601.9 | 2757.8 | 2954.0 | 3143.5 | 3048.8 | 2920.2 | 2751.0 | 2629.2 |
| 50279.3 | 65° | 43132.8 | 32409.7 | 3894.7 | 2456.6 | 2700.2 | 2859.3 | 2896.5 | 2767.9 | 2592.0 | 2463.4 |
| 56079.1 | 67.5° | 47870.1 | 35475.4 | 2947.3 | 2206.2 | 2439.7 | 2629.2 | 2734.1 | 2608.9 | 2422.8 | 2297.6 |
| 57436.0 | 70° | 47609.5 | 33248.8 | 2250.2 | 1959.2 | 2209.6 | 2402.5 | 2537.8 | 2439.7 | 2240.1 | 2121.6 |
| 52170.8 | 72.5° | 42286.9 | 27814.5 | 1820.5 | 1708.8 | 1976.1 | 2165.6 | 2328.0 | 2253.6 | 2050.6 | 1935.5 |
| 38219.6 | 75° | 31066.3 | 19744.2 | 1455.0 | 1455.0 | 1685.1 | 1918.6 | 2097.9 | 2050.6 | 1864.5 | 1783.2 |
| 16045.8 | 77.5° | 13095.2 | 8283.4 | 1140.3 | 1208.0 | 1400.9 | 1647.9 | 1871.2 | 1888.1 | 1725.7 | 1827.2 |
| 4243.2 | 80° | 3481.9 | 2284.0 | 869.6 | 950.8 | 1099.7 | 1360.3 | 1627.6 | 1620.8 | 1444.9 | 1350.1 |
| 1576.8 | 82.5° | 1326.4 | 900.1 | 619.2 | 670.0 | 795.2 | 1042.2 | 1289.2 | 1329.8 | 1153.9 | 998.2 |
| 619.2 | 85° | 510.9 | 385.7 | 382.4 | 402.7 | 463.6 | 690.3 | 974.5 | 1008.4 | 869.6 | 737.7 |
| 172.6 | 87.5° | 132.0 | 115.0 | 142.1 | 135.4 | 213.2 | 368.8 | 558.3 | 578.6 | 531.3 | 307.9 |
| 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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| <u>180°</u> |
|-------------|
| 9349.3 |
| 8919.6 |
| 8266.5 |
| 7671.0 |
| 7312.3 |
| 7210.8 |
| 7292.0 |
| 7407.1 |
| 7407.1 |
| 7237.9 |
| 6923.2 |
| 6510.4 |
| 6033.2 |
| 5505.4 |
| 5041.8 |
| 4832.0 |
| 4524.1 |
| 4104.5 |
| 3759.4 |
| 3529.3 |
| 3360.1 |
| 3261.9 |
| 3018.3 |
| 2903.3 |
| 2764.5 |
| 2629.2 |
| 2470.1 |
| 2301.0 |
| 2131.8 |
| 1935.5 |
| 1759.6 |
| 1658.0 |
| 1255.4 |
| 998.2 |
| 761.3 |
| 439.9 |
| 0.0 |

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