

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: P853207

Luminaire Tested: **GLAN-SB9C-727-U-T4FT**

Issue Date: 7/11/2024

Test Information

Test Method: LM-79-08
Report Number: P853207
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB9C-727-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59958 lumens
Efficiency: N/A
Efficacy: 133.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

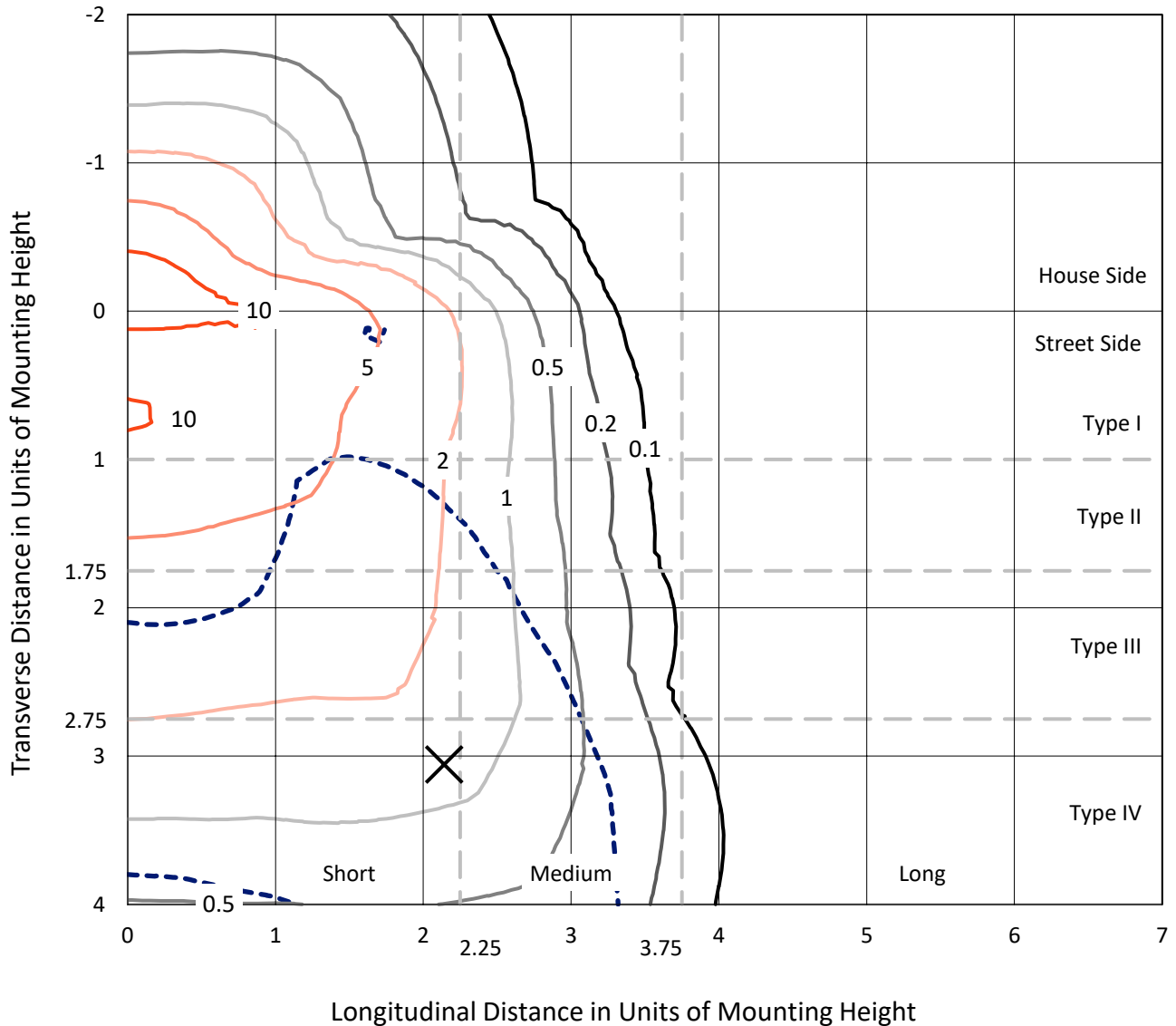
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

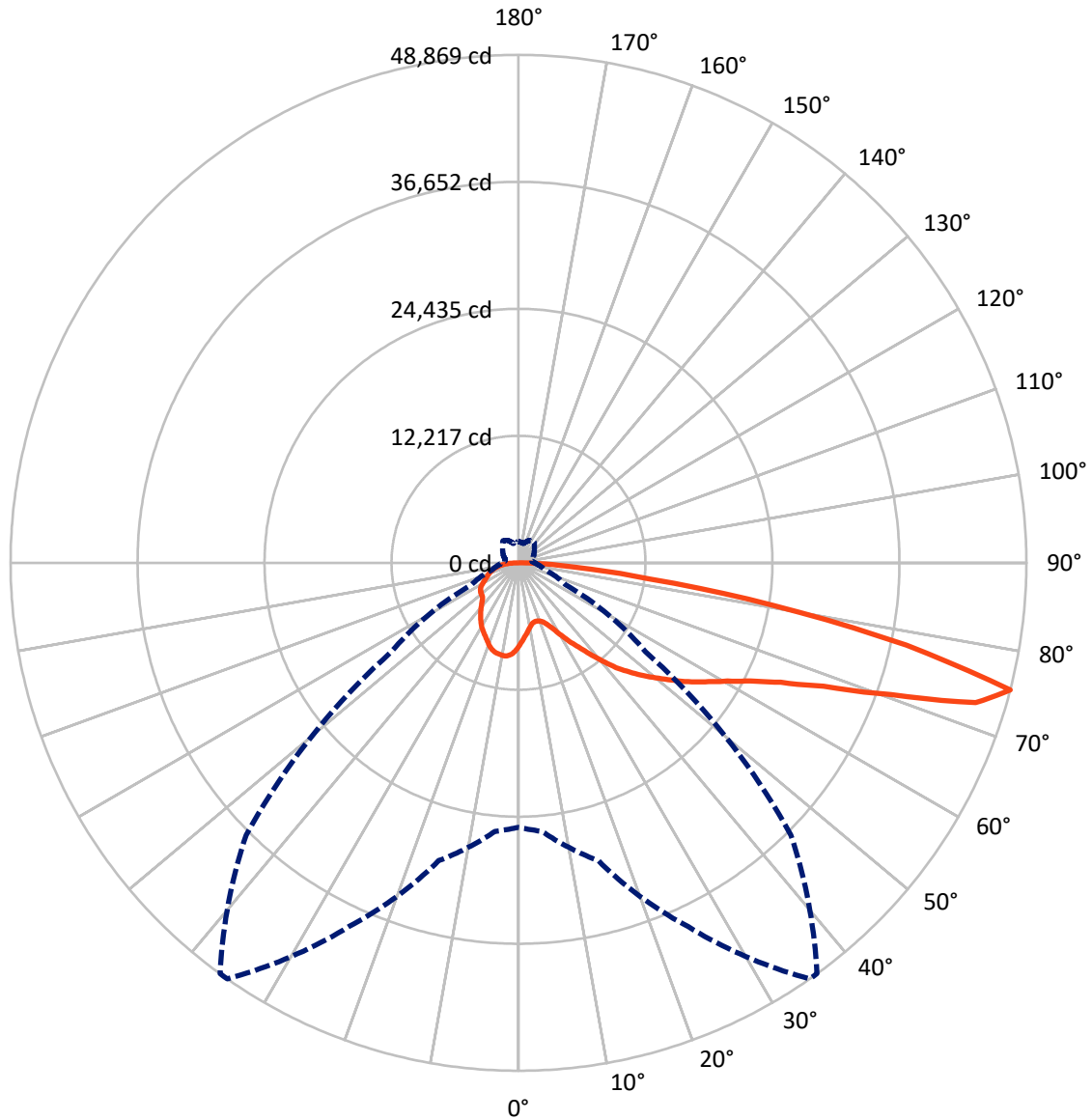
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 14268.5 | 0.0 | 14268.5 |
| | % Fixture | 23.8 | 0.0 | 23.8 |
| Street Side | Lumens | 45689.5 | 0.0 | 45689.5 |
| | % Fixture | 76.2 | 0.0 | 76.2 |
| Total | Lumens | 59958.0 | 0.0 | 59958.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 756.5 | 1.3 |
| 10°-20° | 2182.0 | 3.6 |
| 20°-30° | 3664.1 | 6.1 |
| 30°-40° | 5694.6 | 9.5 |
| 40°-50° | 8452.3 | 14.1 |
| 50°-60° | 11668.9 | 19.5 |
| 60°-70° | 14157.0 | 23.6 |
| 70°-80° | 11699.7 | 19.5 |
| 80°-90° | 1682.8 | 2.8 |
| 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° | 59958.0 | 100.0 |
| 0°-180° | 59958.0 | 100.0 |

Coefficient of Utilization

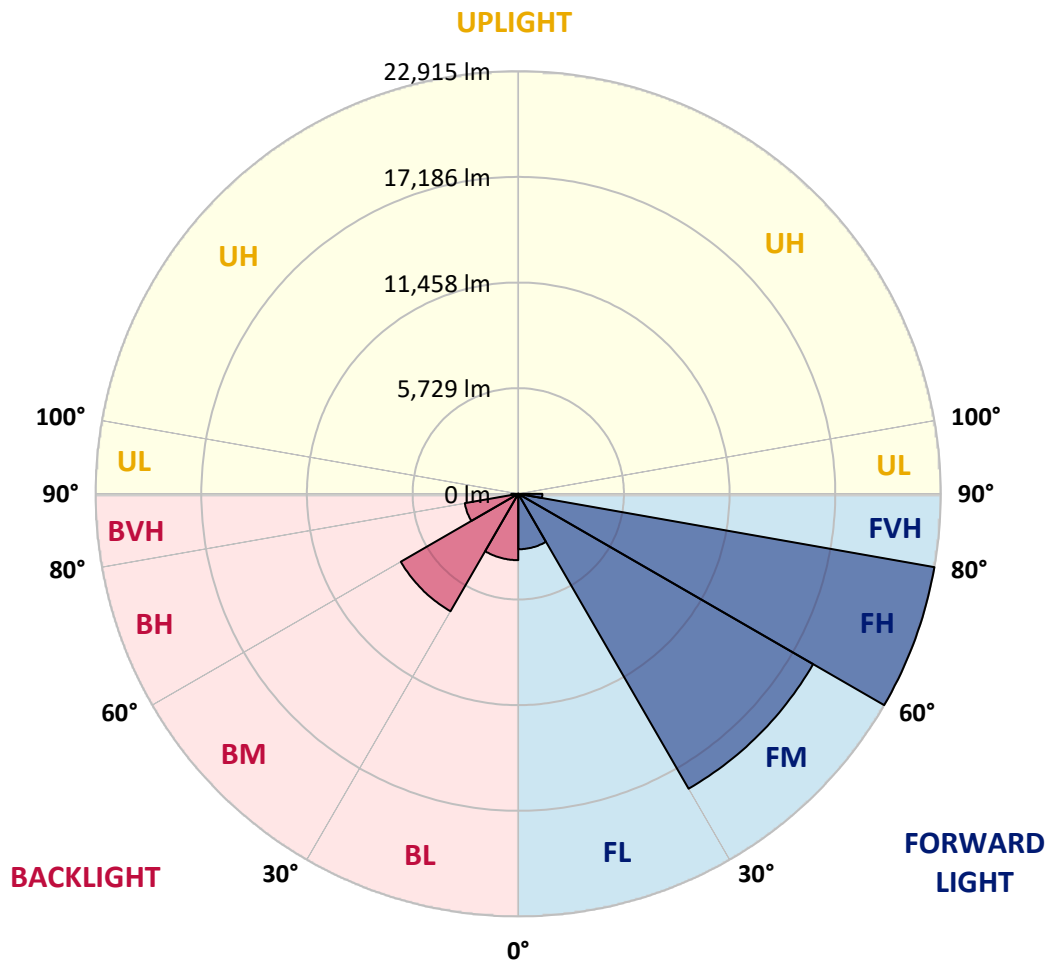


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3006.8 | 5.0 | | | |
| FM (30°-60°) | 18463.8 | 30.8 | | | |
| FH (60°-80°) | 22915.1 | 38.2 | | | G5 |
| FVH (80°-90°) | 1303.9 | 2.2 | | | G5 |
| BL (0°-30°) | 3595.9 | 6.0 | B4/5000 | | |
| BM (30°-60°) | 7352.0 | 12.3 | B4/8500 | | |
| BH (60°-80°) | 2941.7 | 4.9 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 378.9 | 0.6 | | | 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 IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 36° | 45° | 55° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7989.8 | 7989.8 | 7989.8 | 7989.8 | 7989.8 | 7989.8 | 7989.8 | 7989.8 | 7989.8 | 7989.8 |
| 2.5° | 7367.5 | 7412.9 | 7432.3 | 7422.6 | 7471.2 | 7464.7 | 7532.8 | 7617.1 | 7733.7 | 7847.2 |
| 5° | 6800.3 | 6848.9 | 6891.0 | 6929.9 | 7023.9 | 7053.1 | 7160.0 | 7322.1 | 7536.0 | 7753.2 |
| 7.5° | 6271.9 | 6314.1 | 6378.9 | 6450.2 | 6609.0 | 6638.2 | 6816.5 | 7069.3 | 7367.5 | 7685.1 |
| 10° | 5840.8 | 5883.0 | 5951.0 | 6032.1 | 6229.8 | 6265.4 | 6492.3 | 6829.4 | 7218.4 | 7620.3 |
| 12.5° | 5656.1 | 5669.0 | 5707.9 | 5789.0 | 5960.8 | 5983.4 | 6233.0 | 6618.7 | 7072.5 | 7571.7 |
| 15° | 5646.3 | 5672.3 | 5675.5 | 5717.7 | 5860.3 | 5870.0 | 6100.1 | 6482.6 | 6981.8 | 7562.0 |
| 17.5° | 5743.6 | 5763.0 | 5733.9 | 5759.8 | 5879.7 | 5895.9 | 6077.4 | 6417.8 | 6952.6 | 7604.1 |
| 20° | 6002.9 | 6019.1 | 5931.6 | 5895.9 | 5983.4 | 5996.4 | 6174.7 | 6459.9 | 6981.8 | 7691.6 |
| 22.5° | 6553.9 | 6563.6 | 6349.7 | 6203.9 | 6210.3 | 6216.8 | 6372.4 | 6631.7 | 7095.2 | 7850.4 |
| 25° | 7412.9 | 7406.4 | 7066.0 | 6784.0 | 6622.0 | 6586.3 | 6690.0 | 6910.5 | 7286.4 | 8061.1 |
| 27.5° | 8417.7 | 8369.0 | 8028.7 | 7607.3 | 7254.0 | 7202.2 | 7179.5 | 7273.5 | 7558.7 | 8339.9 |
| 30° | 9552.1 | 9506.7 | 9140.5 | 8589.4 | 8100.0 | 8015.7 | 7801.8 | 7753.2 | 7963.9 | 8719.1 |
| 32.5° | 10796.8 | 10767.6 | 10330.0 | 9662.3 | 9007.6 | 8910.3 | 8550.6 | 8420.9 | 8586.2 | 9292.8 |
| 35° | 11840.5 | 11814.5 | 11451.5 | 10764.4 | 9963.8 | 9843.8 | 9477.6 | 9331.7 | 9416.0 | 10028.6 |
| 37.5° | 12783.7 | 12770.7 | 12459.6 | 11918.3 | 11091.7 | 10945.9 | 10534.2 | 10485.6 | 10469.4 | 10997.7 |
| 40° | 13658.8 | 13626.4 | 13302.3 | 13017.1 | 12404.5 | 12271.6 | 11908.5 | 11866.4 | 11743.2 | 12190.5 |
| 42.5° | 14628.0 | 14543.7 | 14073.7 | 13940.8 | 13775.5 | 13665.3 | 13448.2 | 13454.6 | 13182.4 | 13535.7 |
| 45° | 15418.9 | 15370.3 | 14887.3 | 14809.5 | 14987.8 | 14942.4 | 15130.4 | 15179.0 | 14650.7 | 14945.6 |
| 47.5° | 16268.1 | 16222.7 | 15814.3 | 15759.2 | 16242.2 | 16255.1 | 16919.6 | 16935.8 | 16083.3 | 16410.7 |
| 50° | 17315.0 | 17250.2 | 16845.0 | 16913.1 | 17454.4 | 17503.0 | 18718.5 | 18608.3 | 17402.5 | 17898.5 |
| 52.5° | 18005.4 | 18044.3 | 17956.8 | 18067.0 | 18806.0 | 18851.4 | 20488.3 | 20206.3 | 18708.8 | 19366.8 |
| 55° | 18514.3 | 18592.1 | 18864.4 | 19117.2 | 20232.2 | 20277.6 | 22157.5 | 21726.4 | 19791.4 | 20728.1 |
| 57.5° | 19169.1 | 19058.9 | 19567.7 | 20060.4 | 21587.1 | 21707.0 | 23781.4 | 23191.5 | 20750.8 | 21901.5 |
| 60° | 20109.0 | 20031.2 | 20426.7 | 21156.0 | 23104.0 | 23295.2 | 25499.3 | 24510.7 | 21454.2 | 22831.7 |
| 62.5° | 22014.9 | 21820.4 | 21882.0 | 22527.0 | 25016.4 | 25269.2 | 27437.6 | 25661.4 | 21804.2 | 23194.8 |
| 65° | 24864.0 | 24530.2 | 24219.0 | 24666.3 | 27709.9 | 27959.5 | 29625.5 | 26565.7 | 21674.6 | 22491.4 |
| 67.5° | 28452.1 | 28121.5 | 27739.1 | 28160.4 | 31677.2 | 31875.0 | 32325.5 | 27074.6 | 20653.6 | 19781.7 |
| 70° | 31411.5 | 31288.3 | 31745.3 | 33479.4 | 38014.0 | 38020.5 | 35787.2 | 26653.2 | 17856.3 | 14025.1 |
| 72.5° | 31019.3 | 30944.7 | 33353.0 | 38714.1 | 46000.6 | 45828.8 | 39064.2 | 23463.8 | 12028.5 | 6327.0 |
| 75° | 25447.5 | 25930.4 | 29661.2 | 38620.1 | 48869.1 | 48846.4 | 37057.8 | 14916.5 | 4975.4 | 2622.2 |
| 77.5° | 13645.9 | 14410.8 | 19256.6 | 28513.7 | 38150.1 | 38723.8 | 26053.6 | 5218.5 | 2136.0 | 1679.0 |
| 80° | 4450.3 | 5118.0 | 7675.4 | 14517.8 | 24789.5 | 24682.5 | 11166.3 | 2048.5 | 1461.8 | 1189.6 |
| 82.5° | 1889.7 | 1967.5 | 3429.3 | 6855.4 | 12722.1 | 12524.4 | 3555.7 | 1176.6 | 1027.5 | 813.6 |
| 85° | 739.0 | 826.5 | 1513.7 | 3170.0 | 5510.2 | 5390.3 | 1283.6 | 583.4 | 658.0 | 531.6 |
| 87.5° | 243.1 | 295.0 | 541.3 | 1085.8 | 1714.6 | 1653.1 | 314.4 | 201.0 | 285.2 | 243.1 |
| 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° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 7989.8 | 0° | 7989.8 | 7989.8 | 7989.8 | 7989.8 | 7989.8 | 7989.8 | 7989.8 | 7989.8 | 7989.8 | 7989.8 |
| 8012.5 | 2.5° | 8057.9 | 8109.7 | 8171.3 | 8262.1 | 8339.9 | 8404.7 | 8472.8 | 8514.9 | 8531.1 | 8579.7 |
| 8025.5 | 5° | 8116.2 | 8229.7 | 8382.0 | 8531.1 | 8677.0 | 8764.5 | 8842.3 | 8881.2 | 8916.8 | 8942.8 |
| 8061.1 | 7.5° | 8213.5 | 8359.3 | 8599.2 | 8793.7 | 8916.8 | 8988.1 | 9040.0 | 9027.0 | 9040.0 | 9046.5 |
| 8100.0 | 10° | 8297.7 | 8501.9 | 8787.2 | 8971.9 | 9065.9 | 9069.2 | 9056.2 | 9010.8 | 8988.1 | 8991.4 |
| 8158.4 | 12.5° | 8398.2 | 8625.1 | 8933.0 | 9088.6 | 9114.5 | 9043.2 | 8988.1 | 8910.3 | 8881.2 | 8868.2 |
| 8245.9 | 15° | 8534.3 | 8793.7 | 9091.9 | 9150.2 | 9085.4 | 8994.6 | 8900.6 | 8774.2 | 8709.4 | 8657.5 |
| 8395.0 | 17.5° | 8699.7 | 8984.9 | 9215.0 | 9172.9 | 9033.5 | 8884.4 | 8732.1 | 8540.8 | 8407.9 | 8352.8 |
| 8599.2 | 20° | 8929.8 | 9185.8 | 9309.0 | 9124.3 | 8913.6 | 8686.7 | 8427.4 | 8194.0 | 8070.8 | 8015.7 |
| 8858.5 | 22.5° | 9208.5 | 9454.9 | 9399.8 | 9040.0 | 8741.8 | 8378.8 | 8054.6 | 7882.8 | 7821.3 | 7782.4 |
| 9192.3 | 25° | 9542.4 | 9753.1 | 9464.6 | 8916.8 | 8459.8 | 7970.4 | 7720.8 | 7665.7 | 7636.5 | 7607.3 |
| 9600.7 | 27.5° | 9976.7 | 10090.2 | 9513.2 | 8735.3 | 8019.0 | 7536.0 | 7445.3 | 7455.0 | 7445.3 | 7396.7 |
| 10168.0 | 30° | 10550.4 | 10527.7 | 9558.6 | 8440.4 | 7513.3 | 7143.8 | 7150.3 | 7192.4 | 7198.9 | 7166.5 |
| 10958.8 | 32.5° | 11305.7 | 11075.5 | 9581.3 | 8057.9 | 7030.4 | 6800.3 | 6806.7 | 6852.1 | 6884.5 | 6829.4 |
| 11992.8 | 35° | 12219.7 | 11714.1 | 9545.6 | 7578.2 | 6657.6 | 6472.9 | 6424.3 | 6437.2 | 6446.9 | 6395.1 |
| 13247.2 | 37.5° | 13286.1 | 12430.4 | 9386.8 | 7046.6 | 6349.7 | 6152.0 | 6048.3 | 5960.8 | 5908.9 | 5860.3 |
| 14666.9 | 40° | 14456.2 | 13211.5 | 9095.1 | 6528.0 | 6006.1 | 5811.7 | 5656.1 | 5490.8 | 5315.7 | 5250.9 |
| 16170.9 | 42.5° | 15681.4 | 14015.4 | 8741.8 | 6032.1 | 5610.7 | 5451.9 | 5286.6 | 5046.7 | 4784.2 | 4651.3 |
| 17733.2 | 45° | 16952.0 | 14838.7 | 8395.0 | 5542.6 | 5205.5 | 5137.5 | 4946.2 | 4657.8 | 4372.5 | 4204.0 |
| 19298.7 | 47.5° | 18196.7 | 15616.6 | 7886.1 | 5049.9 | 4826.3 | 4900.8 | 4751.7 | 4486.0 | 4168.3 | 3902.5 |
| 20851.3 | 50° | 19386.2 | 16345.9 | 7053.1 | 4550.8 | 4518.4 | 4829.5 | 4686.9 | 4304.4 | 3941.4 | 3601.1 |
| 22374.7 | 52.5° | 20566.1 | 16935.8 | 5986.7 | 4097.0 | 4353.1 | 4810.1 | 4602.6 | 4181.3 | 3737.2 | 3380.7 |
| 23807.4 | 55° | 21567.6 | 17240.5 | 4959.2 | 3708.0 | 4113.2 | 4644.8 | 4502.2 | 4035.4 | 3448.7 | 3069.5 |
| 24789.5 | 57.5° | 22138.1 | 16994.1 | 4103.5 | 3325.6 | 3782.6 | 4372.5 | 4330.4 | 3724.3 | 3105.2 | 2813.5 |
| 24980.7 | 60° | 21891.8 | 15995.8 | 3403.4 | 2991.7 | 3468.2 | 4077.6 | 4032.2 | 3416.3 | 2842.6 | 2567.1 |
| 23956.5 | 62.5° | 20533.6 | 14093.2 | 2849.1 | 2700.0 | 3183.0 | 3776.1 | 3734.0 | 3179.7 | 2641.7 | 2375.9 |
| 21237.0 | 65° | 17798.0 | 11464.5 | 2418.0 | 2456.9 | 2894.5 | 3413.1 | 3474.7 | 2982.0 | 2482.8 | 2223.5 |
| 16430.2 | 67.5° | 13574.6 | 8304.2 | 2080.9 | 2246.2 | 2612.5 | 3056.5 | 3234.8 | 2839.4 | 2349.9 | 2103.6 |
| 9506.7 | 70° | 7737.0 | 4716.1 | 1795.7 | 2042.0 | 2362.9 | 2725.9 | 3050.1 | 2725.9 | 2207.3 | 2003.1 |
| 3562.2 | 72.5° | 2933.4 | 2165.2 | 1552.6 | 1837.8 | 2123.1 | 2447.2 | 2845.9 | 2547.7 | 2042.0 | 1889.7 |
| 1841.1 | 75° | 1565.5 | 1319.2 | 1306.2 | 1598.0 | 1847.5 | 2174.9 | 2589.8 | 2372.6 | 1918.9 | 1996.6 |
| 1273.8 | 77.5° | 1066.4 | 933.5 | 1092.3 | 1367.8 | 1546.1 | 1873.5 | 2317.5 | 2106.8 | 1662.8 | 1656.3 |
| 881.6 | 80° | 739.0 | 661.2 | 888.1 | 1102.0 | 1196.0 | 1575.3 | 2022.6 | 1808.6 | 1354.9 | 1264.1 |
| 544.5 | 82.5° | 444.1 | 431.1 | 664.5 | 823.3 | 846.0 | 1215.5 | 1675.8 | 1516.9 | 1108.5 | 965.9 |
| 324.1 | 85° | 243.1 | 256.1 | 424.6 | 483.0 | 492.7 | 849.2 | 1312.7 | 1173.4 | 852.5 | 716.3 |
| 116.7 | 87.5° | 68.1 | 87.5 | 155.6 | 191.2 | 236.6 | 440.8 | 781.2 | 696.9 | 427.9 | 298.2 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END O

| <u>180°</u> |
|-------------|
| 7989.8 |
| 8576.5 |
| 8949.2 |
| 9056.2 |
| 8997.9 |
| 8861.7 |
| 8673.7 |
| 8356.1 |
| 8009.3 |
| 7788.8 |
| 7607.3 |
| 7406.4 |
| 7182.7 |
| 6855.4 |
| 6430.7 |
| 5892.7 |
| 5280.1 |
| 4667.5 |
| 4191.0 |
| 3873.4 |
| 3571.9 |
| 3341.8 |
| 3037.1 |
| 2774.6 |
| 2528.2 |
| 2333.7 |
| 2181.4 |
| 2064.7 |
| 1977.2 |
| 1863.7 |
| 2061.5 |
| 1526.7 |
| 1209.0 |
| 972.4 |
| 722.8 |
| 298.2 |
| 0.0 |

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