

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: P943482

Luminaire Tested: **GLAN-SB8A-727-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943482
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB8A-727-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33350 lumens
Efficiency: N/A
Efficacy: 146.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

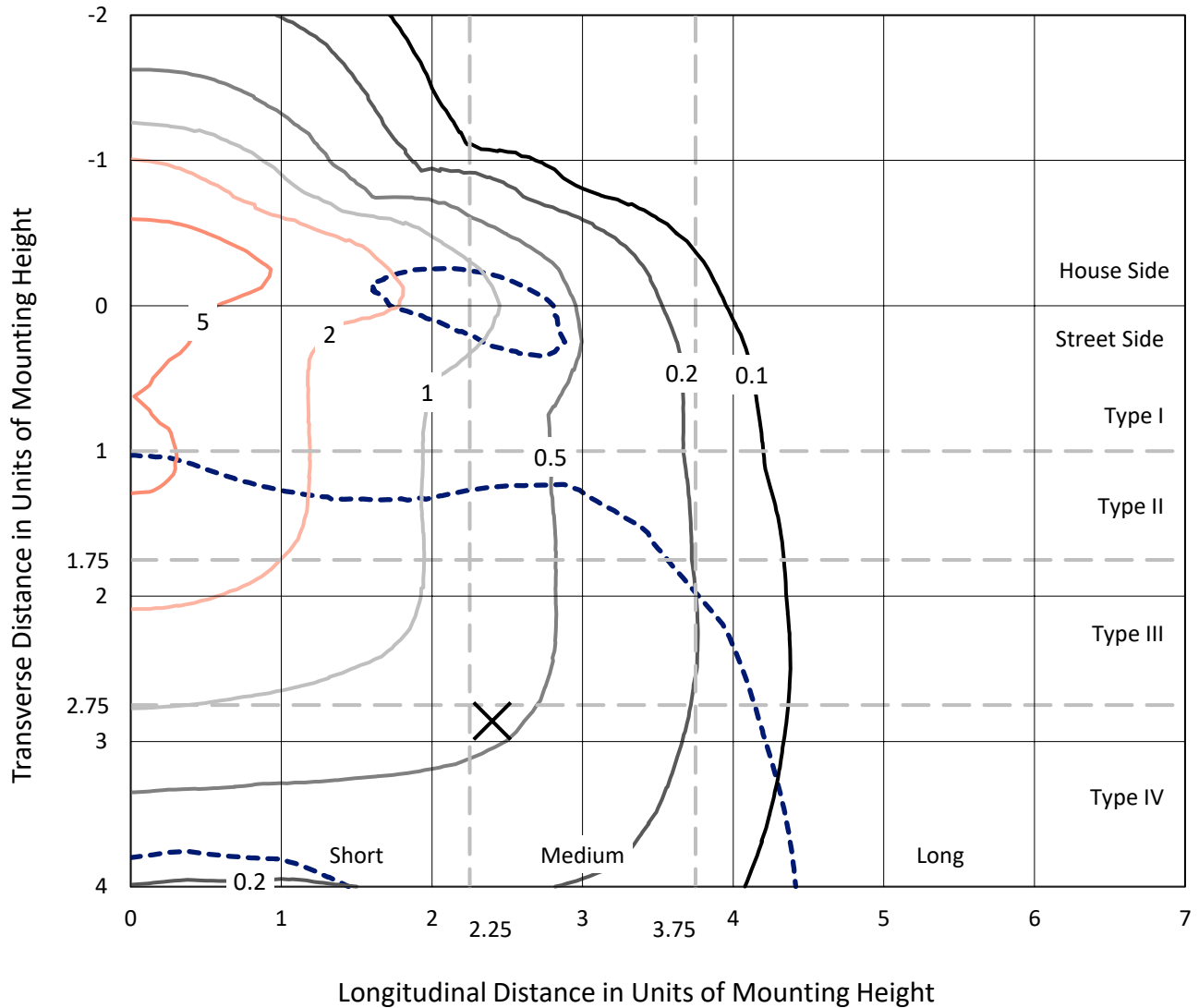
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

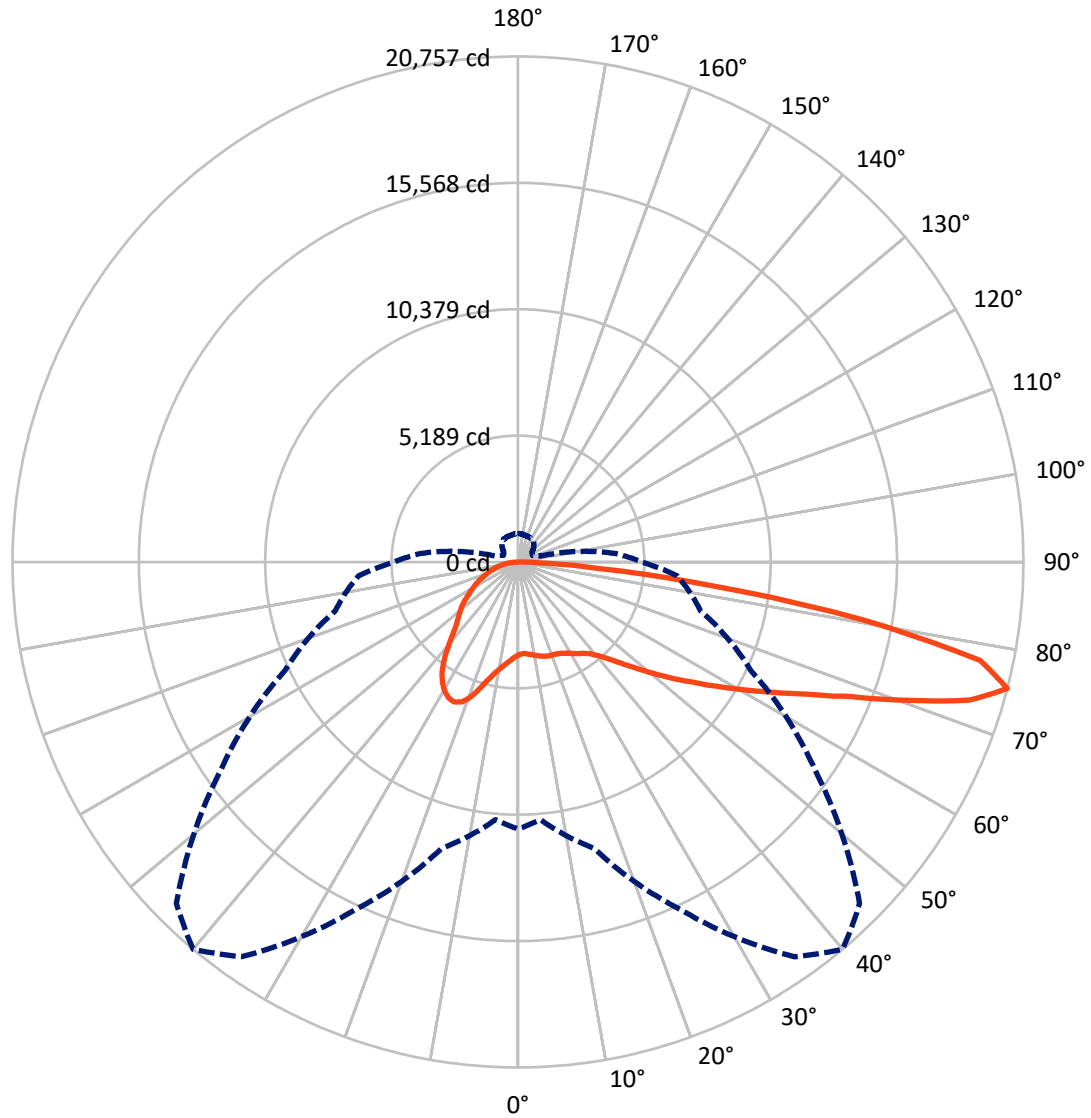
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 10332.9 | 0.0 | 10332.9 |
| | % Fixture | 31.0 | 0.0 | 31.0 |
| Street Side | Lumens | 23017.1 | 0.0 | 23017.1 |
| | % Fixture | 69.0 | 0.0 | 69.0 |
| Total | Lumens | 33350.0 | 0.0 | 33350.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 380.7 | 1.1 |
| 10°-20° | 1278.1 | 3.8 |
| 20°-30° | 2333.7 | 7.0 |
| 30°-40° | 3309.8 | 9.9 |
| 40°-50° | 4469.2 | 13.4 |
| 50°-60° | 6012.3 | 18.0 |
| 60°-70° | 7631.0 | 22.9 |
| 70°-80° | 6925.6 | 20.8 |
| 80°-90° | 1009.5 | 3.0 |
| 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° | 33350.0 | 100.0 |
| 0°-180° | 33350.0 | 100.0 |



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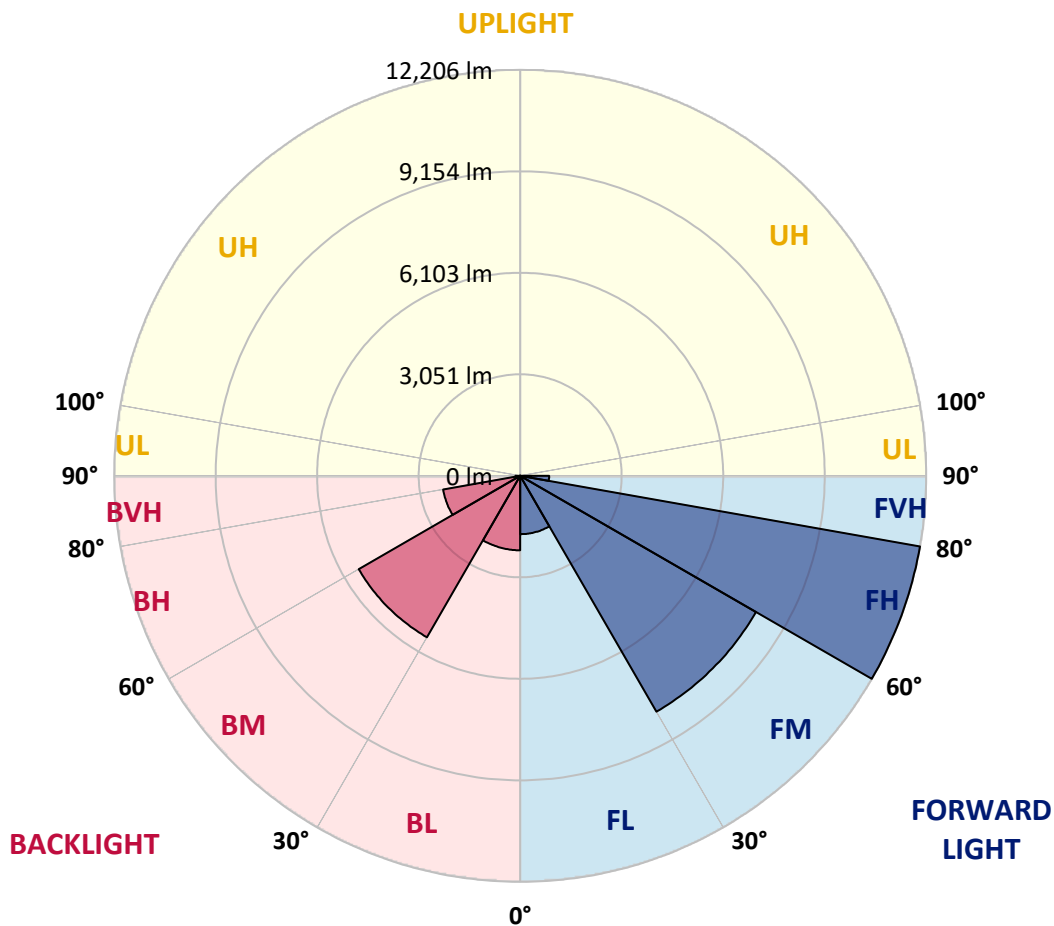
CATALOG NUMBER: GLAN-SB8A-727-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1754.2 | 5.3 | | | |
| FM (30°-60°) | 8186.7 | 24.5 | | | |
| FH (60°-80°) | 12205.6 | 36.6 | | | G5 |
| FVH (80°-90°) | 870.5 | 2.6 | | | G5 |
| BL (0°-30°) | 2238.2 | 6.7 | B3/2500 | | |
| BM (30°-60°) | 5604.7 | 16.8 | B4/8500 | | |
| BH (60°-80°) | 2351.1 | 7.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 139.0 | 0.4 | | | 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 IV Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 40° | 45° | 55° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0° | 3813.6 | 3813.6 | 3813.6 | 3813.6 | 3813.6 | 3813.6 | 3813.6 | 3813.6 | 3813.6 | 3813.6 |
| 2.5° | 3755.2 | 3776.5 | 3771.2 | 3764.1 | 3764.1 | 3765.9 | 3764.1 | 3776.5 | 3788.9 | 3801.2 |
| 5° | 3794.2 | 3815.4 | 3804.8 | 3795.9 | 3788.9 | 3787.1 | 3781.8 | 3780.0 | 3787.1 | 3803.0 |
| 7.5° | 3870.2 | 3891.4 | 3875.5 | 3859.6 | 3845.5 | 3838.4 | 3831.3 | 3820.7 | 3815.4 | 3824.2 |
| 10° | 3955.1 | 3976.4 | 3956.9 | 3928.6 | 3905.6 | 3896.8 | 3889.7 | 3879.1 | 3872.0 | 3877.3 |
| 12.5° | 4040.0 | 4061.3 | 4034.7 | 3995.8 | 3965.7 | 3960.4 | 3951.6 | 3948.0 | 3946.3 | 3944.5 |
| 15° | 4119.6 | 4137.3 | 4103.7 | 4057.7 | 4025.9 | 4017.0 | 4008.2 | 4013.5 | 4022.3 | 4033.0 |
| 17.5° | 4181.5 | 4199.2 | 4149.7 | 4089.6 | 4059.5 | 4055.9 | 4050.6 | 4068.3 | 4093.1 | 4119.6 |
| 20° | 4238.1 | 4255.8 | 4192.1 | 4110.8 | 4075.4 | 4075.4 | 4077.2 | 4114.3 | 4149.7 | 4188.6 |
| 22.5° | 4317.7 | 4331.9 | 4254.1 | 4142.6 | 4091.3 | 4094.9 | 4109.0 | 4146.2 | 4190.4 | 4243.4 |
| 25° | 4436.2 | 4446.9 | 4351.3 | 4202.8 | 4144.4 | 4155.0 | 4167.4 | 4185.1 | 4227.5 | 4289.4 |
| 27.5° | 4627.3 | 4636.1 | 4510.5 | 4308.9 | 4220.4 | 4238.1 | 4255.8 | 4243.4 | 4262.9 | 4316.0 |
| 30° | 4896.1 | 4901.5 | 4742.3 | 4475.2 | 4349.6 | 4358.4 | 4362.0 | 4310.7 | 4273.5 | 4316.0 |
| 32.5° | 5214.5 | 5212.8 | 5023.5 | 4676.8 | 4496.4 | 4487.5 | 4457.5 | 4356.7 | 4270.0 | 4307.1 |
| 35° | 5708.0 | 5688.6 | 5444.5 | 4959.8 | 4662.7 | 4607.8 | 4537.1 | 4407.9 | 4287.7 | 4298.3 |
| 37.5° | 6525.2 | 6465.1 | 6127.3 | 5423.3 | 4910.3 | 4770.6 | 4666.2 | 4491.1 | 4326.6 | 4294.7 |
| 40° | 7446.8 | 7370.8 | 6999.3 | 6058.3 | 5281.8 | 5057.1 | 4889.1 | 4609.6 | 4390.3 | 4310.7 |
| 42.5° | 8540.0 | 8432.1 | 8032.3 | 6806.5 | 5752.3 | 5426.8 | 5173.9 | 4759.9 | 4484.0 | 4362.0 |
| 45° | 9882.5 | 9739.2 | 9173.2 | 7650.2 | 6344.8 | 5911.5 | 5573.6 | 4988.1 | 4627.3 | 4461.0 |
| 47.5° | 11239.2 | 11274.6 | 10469.8 | 8616.0 | 7055.9 | 6509.3 | 6074.2 | 5331.3 | 4836.0 | 4620.2 |
| 50° | 12680.8 | 12705.6 | 11759.2 | 9686.2 | 7862.5 | 7185.0 | 6636.7 | 5715.1 | 5126.1 | 4846.6 |
| 52.5° | 13805.8 | 13809.3 | 12930.2 | 10805.8 | 8702.7 | 7927.9 | 7243.4 | 6153.8 | 5462.2 | 5147.3 |
| 55° | 14509.8 | 14500.9 | 13751.0 | 11865.4 | 9668.5 | 8708.0 | 7915.6 | 6652.6 | 5872.5 | 5501.1 |
| 57.5° | 15021.0 | 14994.4 | 14317.0 | 12776.3 | 10697.9 | 9629.6 | 8676.2 | 7218.6 | 6357.2 | 5922.1 |
| 60° | 15215.6 | 15199.6 | 14700.8 | 13563.5 | 11780.5 | 10648.4 | 9553.5 | 7851.9 | 6907.3 | 6419.1 |
| 62.5° | 15289.8 | 15319.9 | 15077.6 | 14325.8 | 12939.1 | 11776.9 | 10517.5 | 8608.9 | 7526.4 | 6981.6 |
| 65° | 15551.6 | 15606.5 | 15556.9 | 15323.5 | 14248.0 | 13098.3 | 11796.4 | 9509.3 | 8202.1 | 7584.8 |
| 67.5° | 16069.9 | 16124.7 | 16146.0 | 16517.4 | 15847.0 | 14745.0 | 13391.9 | 10630.7 | 8992.8 | 8211.0 |
| 70° | 16057.5 | 16041.6 | 16416.6 | 17467.3 | 17849.4 | 17025.1 | 15542.8 | 12010.4 | 9935.6 | 8731.0 |
| 72.5° | 14615.9 | 14488.6 | 15374.7 | 17456.7 | 19515.6 | 19405.9 | 18169.5 | 13789.9 | 10749.2 | 8794.7 |
| 75° | 10965.0 | 10625.4 | 12190.8 | 15732.1 | 19793.3 | 20757.3 | 19839.3 | 14893.6 | 10556.4 | 7770.5 |
| 77.5° | 4689.2 | 4347.8 | 6192.7 | 11646.0 | 17714.9 | 19404.2 | 18307.5 | 12993.9 | 8426.7 | 5138.5 |
| 80° | 1227.6 | 1225.8 | 1871.4 | 5280.0 | 12047.6 | 14329.4 | 12571.1 | 8391.4 | 4814.8 | 1836.1 |
| 82.5° | 507.7 | 495.3 | 688.1 | 2053.6 | 5886.7 | 8041.1 | 6562.4 | 3742.9 | 1738.8 | 497.0 |
| 85° | 189.3 | 187.5 | 334.3 | 709.3 | 2076.6 | 3316.6 | 2400.3 | 956.9 | 433.4 | 242.3 |
| 87.5° | 53.1 | 51.3 | 72.5 | 245.9 | 505.9 | 767.7 | 410.4 | 157.4 | 122.0 | 95.5 |
| 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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 CATALOG NUMBER: GLAN-SB8A-727-U-SL4

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3813.6 | 0° | 3813.6 | 3813.6 | 3813.6 | 3813.6 | 3813.6 | 3813.6 | 3813.6 | 3813.6 | 3813.6 | 3813.6 |
| 3820.7 | 2.5° | 3826.0 | 3834.8 | 3850.8 | 3863.1 | 3879.1 | 3896.8 | 3921.5 | 3937.4 | 3953.4 | 3964.0 |
| 3829.5 | 5° | 3841.9 | 3861.4 | 3902.1 | 3942.7 | 3990.5 | 4034.7 | 4086.0 | 4123.2 | 4153.2 | 4162.1 |
| 3861.4 | 7.5° | 3877.3 | 3909.1 | 3978.1 | 4047.1 | 4123.2 | 4195.7 | 4270.0 | 4333.7 | 4385.0 | 4404.4 |
| 3918.0 | 10° | 3939.2 | 3981.7 | 4078.9 | 4176.2 | 4277.1 | 4388.5 | 4484.0 | 4576.0 | 4648.5 | 4678.6 |
| 3985.2 | 12.5° | 4017.0 | 4070.1 | 4197.5 | 4331.9 | 4471.6 | 4625.5 | 4749.3 | 4862.5 | 4952.7 | 4993.4 |
| 4078.9 | 15° | 4117.9 | 4186.8 | 4349.6 | 4530.0 | 4735.2 | 4949.2 | 5106.6 | 5232.2 | 5333.0 | 5382.6 |
| 4176.2 | 17.5° | 4227.5 | 4319.5 | 4524.7 | 4797.1 | 5090.7 | 5372.0 | 5555.9 | 5647.9 | 5752.3 | 5800.0 |
| 4266.4 | 20° | 4333.7 | 4446.9 | 4740.5 | 5136.7 | 5527.6 | 5826.6 | 5975.1 | 5999.9 | 6007.0 | 6012.3 |
| 4351.3 | 22.5° | 4443.3 | 4595.4 | 5011.1 | 5564.8 | 5984.0 | 6190.9 | 6212.2 | 6106.0 | 5957.4 | 5888.5 |
| 4434.5 | 25° | 4563.6 | 4765.3 | 5364.9 | 6037.0 | 6376.7 | 6401.4 | 6238.7 | 5980.4 | 5699.2 | 5570.1 |
| 4501.7 | 27.5° | 4680.3 | 4961.6 | 5789.4 | 6488.1 | 6659.7 | 6442.1 | 6091.9 | 5725.7 | 5386.1 | 5249.9 |
| 4549.5 | 30° | 4797.1 | 5186.2 | 6258.2 | 6882.6 | 6788.8 | 6341.3 | 5860.2 | 5451.6 | 5110.2 | 4966.9 |
| 4591.9 | 32.5° | 4915.6 | 5448.0 | 6797.6 | 7167.3 | 6765.8 | 6127.3 | 5571.8 | 5143.8 | 4843.1 | 4692.7 |
| 4629.1 | 35° | 5050.0 | 5770.0 | 7308.8 | 7323.0 | 6611.9 | 5812.4 | 5191.5 | 4775.9 | 4514.1 | 4393.8 |
| 4673.3 | 37.5° | 5225.2 | 6178.6 | 7759.9 | 7361.9 | 6343.1 | 5350.7 | 4719.3 | 4340.7 | 4124.9 | 4070.1 |
| 4738.7 | 40° | 5442.7 | 6670.3 | 8104.8 | 7300.0 | 5945.1 | 4790.0 | 4202.8 | 3900.3 | 3778.2 | 3790.6 |
| 4827.2 | 42.5° | 5725.7 | 7220.4 | 8347.2 | 7140.8 | 5391.4 | 4211.6 | 3749.9 | 3615.5 | 3673.9 | 3723.4 |
| 4959.8 | 45° | 6093.7 | 7791.7 | 8497.5 | 6870.2 | 4765.3 | 3721.6 | 3482.8 | 3514.7 | 3558.9 | 3564.2 |
| 5173.9 | 47.5° | 6564.2 | 8370.1 | 8596.6 | 6461.6 | 4126.7 | 3376.7 | 3313.0 | 3320.1 | 3311.3 | 3274.1 |
| 5494.0 | 50° | 7151.4 | 8932.6 | 8685.0 | 5920.3 | 3583.7 | 3160.9 | 3076.0 | 3051.2 | 2929.2 | 2808.9 |
| 5920.3 | 52.5° | 7820.0 | 9449.1 | 8722.1 | 5248.1 | 3160.9 | 2980.5 | 2842.5 | 2686.9 | 2458.7 | 2421.5 |
| 6456.3 | 55° | 8562.9 | 9926.7 | 8626.6 | 4422.1 | 2805.4 | 2748.8 | 2540.1 | 2352.6 | 2327.8 | 2296.0 |
| 7162.0 | 57.5° | 9450.9 | 10441.5 | 8432.1 | 3500.5 | 2441.0 | 2478.1 | 2274.7 | 2296.0 | 2251.7 | 2202.2 |
| 8069.4 | 60° | 10422.0 | 10973.9 | 8090.7 | 2660.3 | 2064.2 | 2140.3 | 2205.7 | 2204.0 | 2191.6 | 2150.9 |
| 9026.4 | 62.5° | 11295.8 | 11324.1 | 7418.5 | 2037.7 | 1733.5 | 1878.5 | 2057.2 | 2055.4 | 2044.8 | 2021.8 |
| 10025.8 | 65° | 11815.8 | 11271.0 | 6297.1 | 1604.3 | 1461.1 | 1662.7 | 1855.5 | 1869.7 | 1871.4 | 1869.7 |
| 10777.5 | 67.5° | 11723.9 | 10650.2 | 4758.2 | 1277.1 | 1236.4 | 1443.4 | 1655.6 | 1675.1 | 1689.2 | 1692.8 |
| 10873.1 | 70° | 10683.8 | 9286.4 | 3102.5 | 1018.9 | 1036.5 | 1250.6 | 1466.4 | 1485.8 | 1498.2 | 1512.4 |
| 9435.0 | 72.5° | 8327.7 | 6827.7 | 1775.9 | 824.3 | 861.4 | 1084.3 | 1278.9 | 1301.9 | 1308.9 | 1335.5 |
| 6565.9 | 75° | 5074.8 | 4015.3 | 958.7 | 649.2 | 707.5 | 926.9 | 1093.1 | 1119.7 | 1132.1 | 1163.9 |
| 3224.6 | 77.5° | 2412.7 | 1738.8 | 546.6 | 505.9 | 569.6 | 757.1 | 923.3 | 953.4 | 919.8 | 937.5 |
| 889.7 | 80° | 815.4 | 645.6 | 344.9 | 385.6 | 435.1 | 590.8 | 739.4 | 769.4 | 698.7 | 695.2 |
| 295.4 | 82.5° | 284.8 | 261.8 | 219.3 | 256.5 | 281.2 | 422.8 | 559.0 | 597.9 | 520.0 | 518.3 |
| 132.7 | 85° | 111.4 | 106.1 | 122.0 | 139.7 | 168.0 | 260.0 | 367.9 | 387.4 | 320.2 | 258.3 |
| 38.9 | 87.5° | 23.0 | 24.8 | 30.1 | 31.8 | 51.3 | 90.2 | 132.7 | 162.7 | 129.1 | 109.7 |
| 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> |
|-------------|
| 3813.6 |
| 3956.9 |
| 4165.6 |
| 4406.2 |
| 4680.3 |
| 4993.4 |
| 5379.0 |
| 5798.3 |
| 6026.4 |
| 5907.9 |
| 5589.5 |
| 5265.8 |
| 4982.8 |
| 4712.2 |
| 4420.3 |
| 4109.0 |
| 3833.1 |
| 3769.4 |
| 3599.6 |
| 3302.4 |
| 2824.8 |
| 2433.9 |
| 2301.3 |
| 2193.4 |
| 2136.8 |
| 2012.9 |
| 1869.7 |
| 1696.3 |
| 1519.4 |
| 1346.1 |
| 1167.4 |
| 923.3 |
| 688.1 |
| 493.5 |
| 254.7 |
| 100.8 |
| 0.0 |

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