

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: McGRAW-EDISON

Report Number: P943292

Luminaire Tested: **GALN-SB7C-950-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943292
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: McGRAW-EDISON
Catalog Number: GALN-SB7C-950-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36727 lumens
Efficiency: N/A
Efficacy: 104.8 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

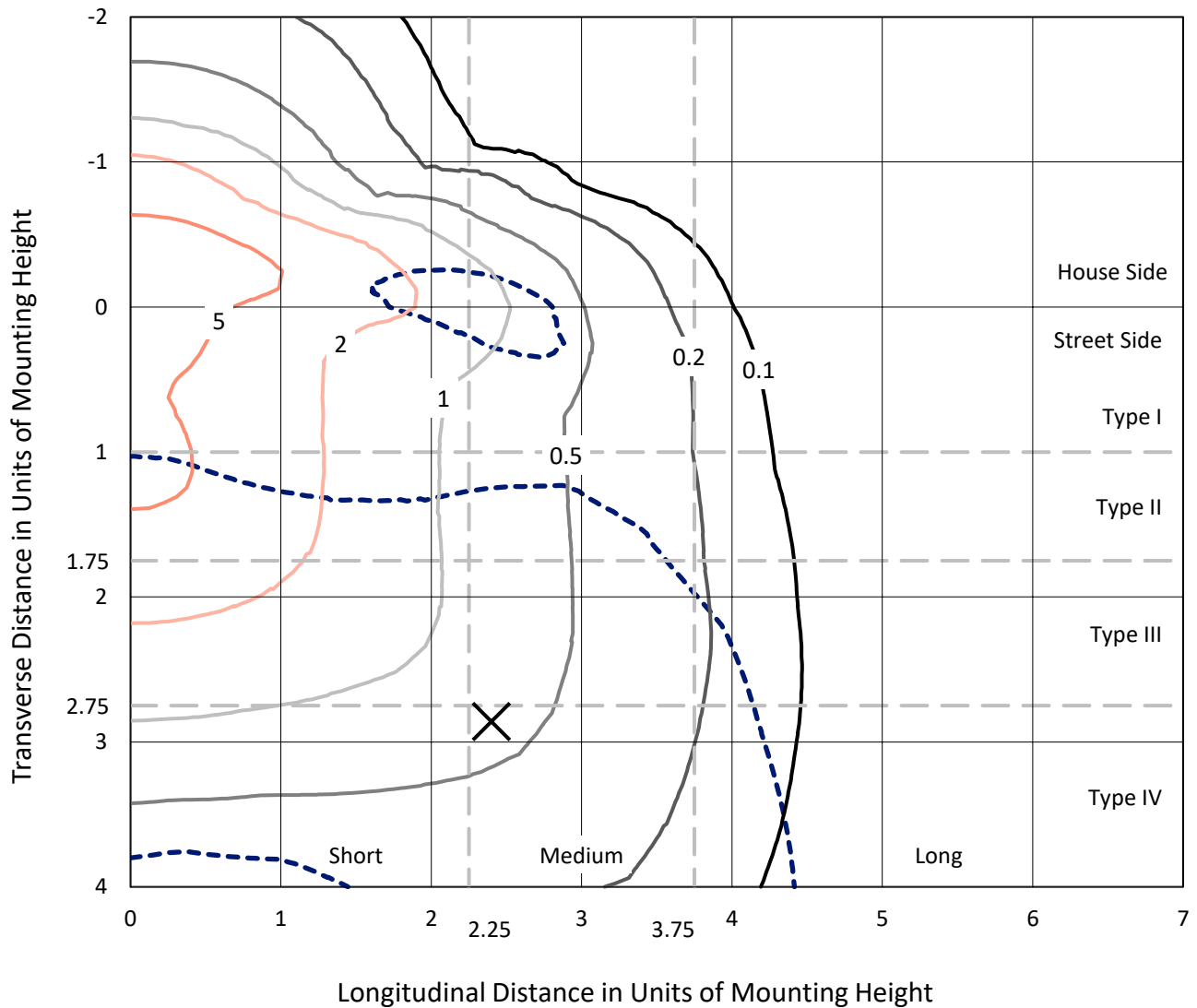
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

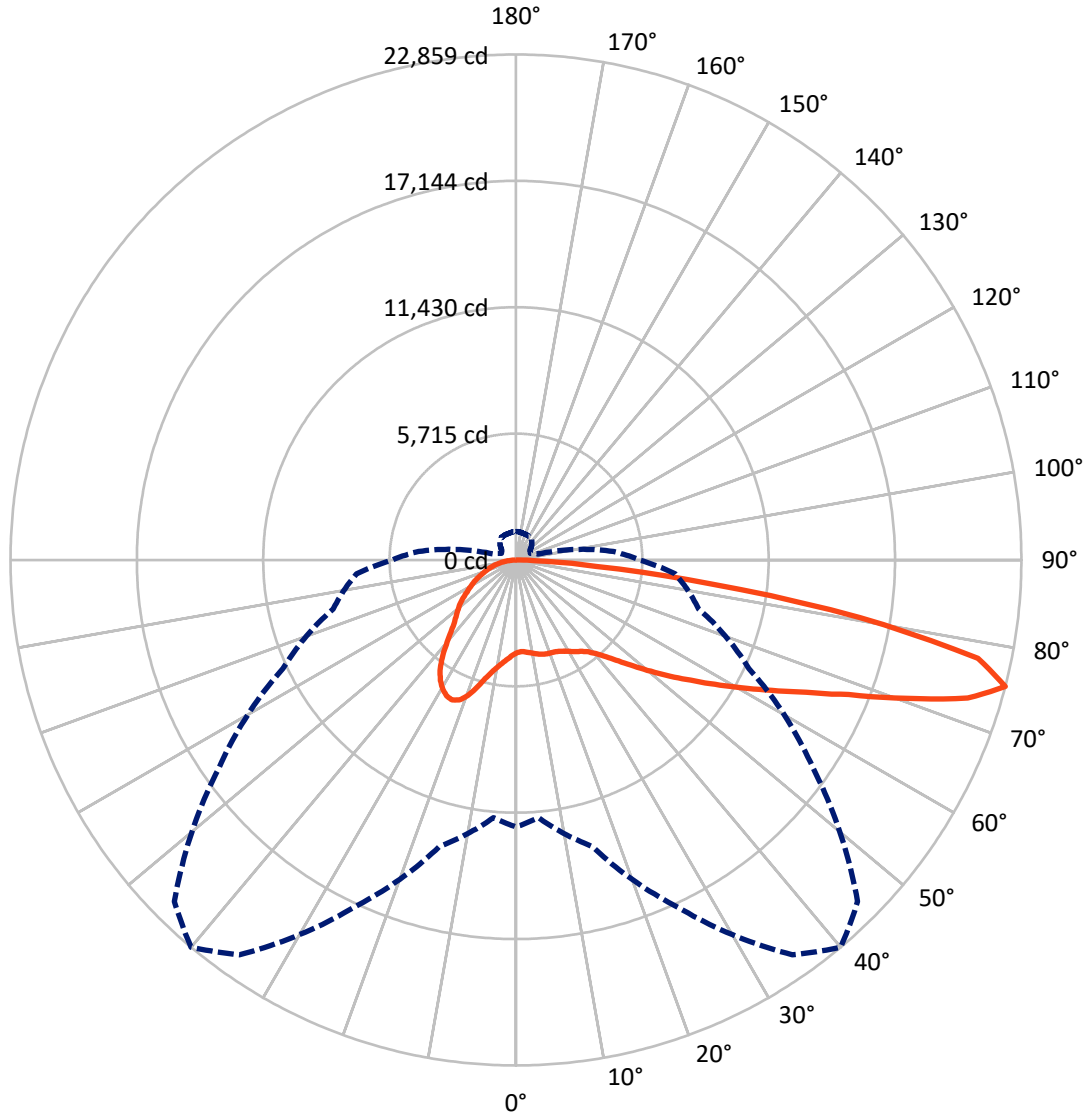
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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 | 11379.2 | 0.0 | 11379.2 |
| | % Fixture | 31.0 | 0.0 | 31.0 |
| Street Side | Lumens | 25347.8 | 0.0 | 25347.8 |
| | % Fixture | 69.0 | 0.0 | 69.0 |
| Total | Lumens | 36727.0 | 0.0 | 36727.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 419.2 | 1.1 |
| 10°-20° | 1407.5 | 3.8 |
| 20°-30° | 2570.0 | 7.0 |
| 30°-40° | 3645.0 | 9.9 |
| 40°-50° | 4921.8 | 13.4 |
| 50°-60° | 6621.1 | 18.0 |
| 60°-70° | 8403.7 | 22.9 |
| 70°-80° | 7626.9 | 20.8 |
| 80°-90° | 1111.8 | 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° | 36727.0 | 100.0 |
| 0°-180° | 36727.0 | 100.0 |



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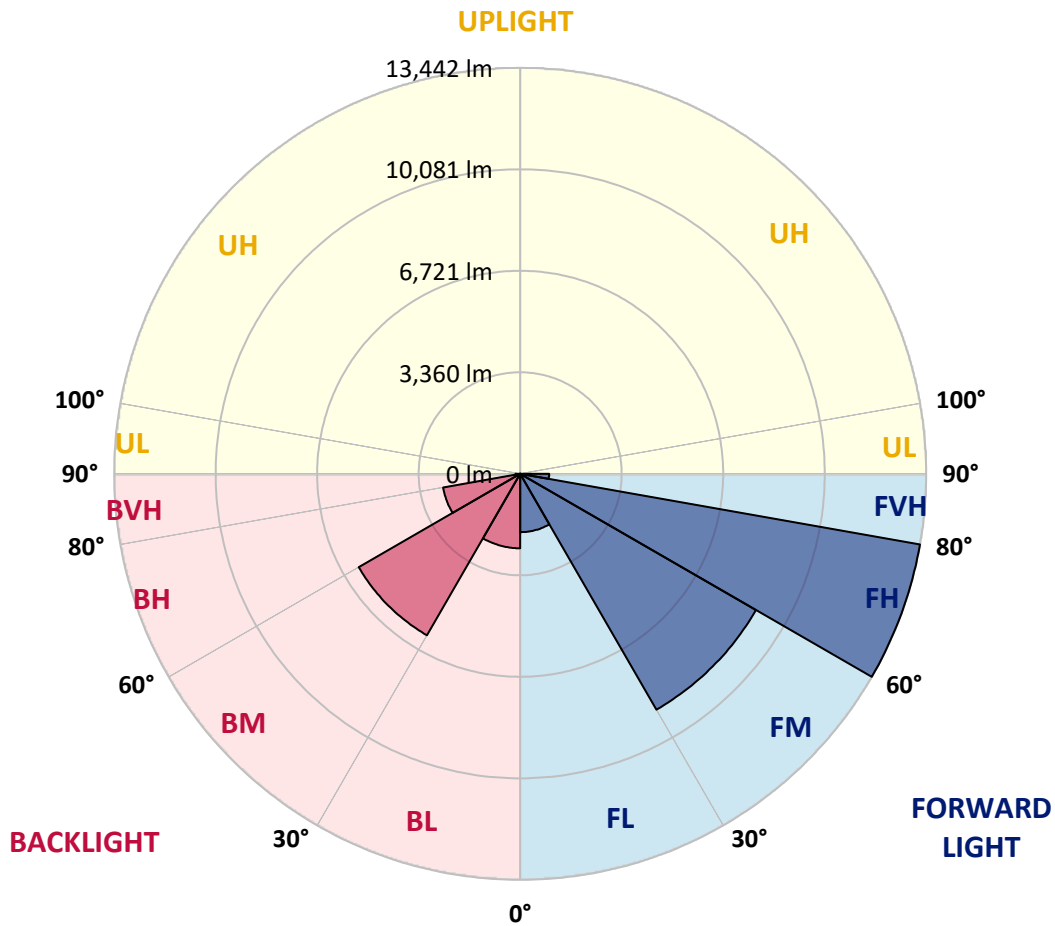
CATALOG NUMBER: GALN-SB7C-950-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1931.9 | 5.3 | | | |
| FM (30°-60°) | 9015.7 | 24.5 | | | |
| FH (60°-80°) | 13441.5 | 36.6 | | | G5 |
| FVH (80°-90°) | 958.7 | 2.6 | | | G5 |
| BL (0°-30°) | 2464.8 | 6.7 | B3/2500 | | |
| BM (30°-60°) | 6172.2 | 16.8 | B4/8500 | | |
| BH (60°-80°) | 2589.1 | 7.0 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 153.1 | 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° | 4199.8 | 4199.8 | 4199.8 | 4199.8 | 4199.8 | 4199.8 | 4199.8 | 4199.8 | 4199.8 | 4199.8 |
| 2.5° | 4135.5 | 4158.9 | 4153.0 | 4145.2 | 4145.2 | 4147.2 | 4145.2 | 4158.9 | 4172.5 | 4186.1 |
| 5° | 4178.4 | 4201.7 | 4190.0 | 4180.3 | 4172.5 | 4170.6 | 4164.7 | 4162.8 | 4170.6 | 4188.1 |
| 7.5° | 4262.1 | 4285.5 | 4268.0 | 4250.4 | 4234.8 | 4227.1 | 4219.3 | 4207.6 | 4201.7 | 4211.5 |
| 10° | 4355.6 | 4379.0 | 4357.6 | 4326.4 | 4301.1 | 4291.3 | 4283.5 | 4271.9 | 4264.1 | 4269.9 |
| 12.5° | 4449.1 | 4472.5 | 4443.3 | 4400.4 | 4367.3 | 4361.5 | 4351.7 | 4347.8 | 4345.9 | 4343.9 |
| 15° | 4536.8 | 4556.3 | 4519.2 | 4468.6 | 4433.5 | 4423.8 | 4414.1 | 4419.9 | 4429.6 | 4441.3 |
| 17.5° | 4605.0 | 4624.4 | 4569.9 | 4503.7 | 4470.5 | 4466.7 | 4460.8 | 4480.3 | 4507.6 | 4536.8 |
| 20° | 4667.3 | 4686.8 | 4616.6 | 4527.0 | 4488.1 | 4488.1 | 4490.0 | 4530.9 | 4569.9 | 4612.7 |
| 22.5° | 4754.9 | 4770.5 | 4684.8 | 4562.1 | 4505.6 | 4509.5 | 4525.1 | 4566.0 | 4614.7 | 4673.1 |
| 25° | 4885.5 | 4897.1 | 4792.0 | 4628.3 | 4564.0 | 4575.7 | 4589.4 | 4608.9 | 4655.6 | 4723.8 |
| 27.5° | 5095.8 | 5105.6 | 4967.3 | 4745.2 | 4647.8 | 4667.3 | 4686.8 | 4673.1 | 4694.6 | 4753.0 |
| 30° | 5391.9 | 5397.8 | 5222.5 | 4928.3 | 4790.0 | 4799.8 | 4803.6 | 4747.2 | 4706.2 | 4753.0 |
| 32.5° | 5742.6 | 5740.6 | 5532.2 | 5150.4 | 4951.7 | 4942.0 | 4908.8 | 4797.8 | 4702.4 | 4743.3 |
| 35° | 6286.0 | 6264.6 | 5995.8 | 5462.1 | 5134.8 | 5074.4 | 4996.5 | 4854.3 | 4721.8 | 4733.5 |
| 37.5° | 7186.0 | 7119.8 | 6747.7 | 5972.4 | 5407.5 | 5253.6 | 5138.7 | 4945.8 | 4764.7 | 4729.6 |
| 40° | 8200.9 | 8117.1 | 7708.0 | 6671.7 | 5816.6 | 5569.2 | 5384.1 | 5076.4 | 4834.8 | 4747.2 |
| 42.5° | 9404.7 | 9285.9 | 8845.6 | 7495.7 | 6334.7 | 5976.3 | 5697.8 | 5241.9 | 4938.1 | 4803.6 |
| 45° | 10883.2 | 10725.4 | 10102.1 | 8424.9 | 6987.3 | 6510.1 | 6138.0 | 5493.2 | 5095.8 | 4912.7 |
| 47.5° | 12377.3 | 12416.2 | 11529.9 | 9488.5 | 7770.4 | 7168.5 | 6689.3 | 5871.1 | 5325.7 | 5088.0 |
| 50° | 13964.9 | 13992.1 | 12950.0 | 10667.0 | 8658.6 | 7912.6 | 7308.7 | 6293.8 | 5645.2 | 5337.4 |
| 52.5° | 15203.8 | 15207.6 | 14239.5 | 11900.0 | 9583.9 | 8730.7 | 7976.9 | 6776.9 | 6015.3 | 5668.5 |
| 55° | 15979.0 | 15969.3 | 15143.4 | 13066.9 | 10647.5 | 9589.8 | 8717.1 | 7326.2 | 6467.2 | 6058.1 |
| 57.5° | 16542.0 | 16512.8 | 15766.7 | 14070.0 | 11781.2 | 10604.6 | 9554.7 | 7949.6 | 7000.9 | 6521.7 |
| 60° | 16756.3 | 16738.7 | 16189.4 | 14936.9 | 12973.4 | 11726.7 | 10520.9 | 8647.0 | 7606.7 | 7069.1 |
| 62.5° | 16838.1 | 16871.2 | 16604.3 | 15776.5 | 14249.3 | 12969.5 | 11582.5 | 9480.7 | 8288.5 | 7688.6 |
| 65° | 17126.4 | 17186.8 | 17132.2 | 16875.1 | 15690.7 | 14424.6 | 12990.9 | 10472.2 | 9032.6 | 8352.8 |
| 67.5° | 17697.1 | 17757.5 | 17780.9 | 18190.0 | 17451.7 | 16238.1 | 14747.9 | 11707.2 | 9903.4 | 9042.4 |
| 70° | 17683.5 | 17666.0 | 18078.9 | 19236.0 | 19656.8 | 18749.0 | 17116.6 | 13226.6 | 10941.6 | 9615.1 |
| 72.5° | 16095.9 | 15955.7 | 16931.6 | 19224.3 | 21491.7 | 21371.0 | 20009.3 | 15186.2 | 11837.7 | 9685.2 |
| 75° | 12075.3 | 11701.3 | 13425.3 | 17325.1 | 21797.6 | 22859.2 | 21848.2 | 16401.7 | 11625.4 | 8557.3 |
| 77.5° | 5164.0 | 4788.1 | 6819.8 | 12825.3 | 19508.7 | 21369.0 | 20161.3 | 14309.6 | 9280.0 | 5658.8 |
| 80° | 1351.9 | 1349.9 | 2060.9 | 5814.6 | 13267.5 | 15780.3 | 13844.1 | 9241.1 | 5302.3 | 2022.0 |
| 82.5° | 559.1 | 545.4 | 757.8 | 2261.6 | 6482.8 | 8855.4 | 7226.9 | 4121.9 | 1914.8 | 547.4 |
| 85° | 208.4 | 206.5 | 368.2 | 781.1 | 2286.9 | 3652.4 | 2643.4 | 1053.8 | 477.2 | 266.9 |
| 87.5° | 58.4 | 56.5 | 79.9 | 270.8 | 557.1 | 845.4 | 451.9 | 173.4 | 134.4 | 105.2 |
| 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: GALN-SB7C-950-U-SL4

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4199.8 | 0° | 4199.8 | 4199.8 | 4199.8 | 4199.8 | 4199.8 | 4199.8 | 4199.8 | 4199.8 | 4199.8 | 4199.8 |
| 4207.6 | 2.5° | 4213.4 | 4223.2 | 4240.7 | 4254.3 | 4271.9 | 4291.3 | 4318.6 | 4336.1 | 4353.7 | 4365.4 |
| 4217.3 | 5° | 4230.9 | 4252.4 | 4297.2 | 4342.0 | 4394.6 | 4443.3 | 4499.8 | 4540.7 | 4573.8 | 4583.5 |
| 4252.4 | 7.5° | 4269.9 | 4305.0 | 4380.9 | 4456.9 | 4540.7 | 4620.5 | 4702.4 | 4772.5 | 4829.0 | 4850.4 |
| 4314.7 | 10° | 4338.1 | 4384.8 | 4492.0 | 4599.1 | 4710.1 | 4832.9 | 4938.1 | 5039.3 | 5119.2 | 5152.3 |
| 4388.7 | 12.5° | 4423.8 | 4482.2 | 4622.5 | 4770.5 | 4924.4 | 5093.9 | 5230.2 | 5354.9 | 5454.3 | 5499.1 |
| 4492.0 | 15° | 4534.8 | 4610.8 | 4790.0 | 4988.7 | 5214.7 | 5450.4 | 5623.7 | 5762.0 | 5873.1 | 5927.6 |
| 4599.1 | 17.5° | 4655.6 | 4756.9 | 4982.9 | 5282.8 | 5606.2 | 5915.9 | 6118.5 | 6219.8 | 6334.7 | 6387.3 |
| 4698.5 | 20° | 4772.5 | 4897.1 | 5220.5 | 5656.8 | 6087.3 | 6416.5 | 6580.2 | 6607.4 | 6615.2 | 6621.1 |
| 4792.0 | 22.5° | 4893.3 | 5060.8 | 5518.5 | 6128.3 | 6589.9 | 6817.8 | 6841.2 | 6724.3 | 6560.7 | 6484.7 |
| 4883.5 | 25° | 5025.7 | 5247.8 | 5908.1 | 6648.4 | 7022.4 | 7049.6 | 6870.4 | 6586.0 | 6276.3 | 6134.1 |
| 4957.5 | 27.5° | 5154.3 | 5464.0 | 6375.6 | 7145.1 | 7334.0 | 7094.4 | 6708.7 | 6305.5 | 5931.5 | 5781.5 |
| 5010.1 | 30° | 5282.8 | 5711.4 | 6891.8 | 7579.5 | 7476.2 | 6983.4 | 6453.6 | 6003.6 | 5627.6 | 5469.8 |
| 5056.9 | 32.5° | 5413.4 | 5999.7 | 7486.0 | 7893.1 | 7450.9 | 6747.7 | 6136.0 | 5664.6 | 5333.5 | 5167.9 |
| 5097.8 | 35° | 5561.4 | 6354.2 | 8048.9 | 8064.5 | 7281.4 | 6401.0 | 5717.2 | 5259.5 | 4971.2 | 4838.7 |
| 5146.5 | 37.5° | 5754.2 | 6804.2 | 8545.7 | 8107.4 | 6985.4 | 5892.6 | 5197.1 | 4780.3 | 4542.6 | 4482.2 |
| 5218.6 | 40° | 5993.8 | 7345.7 | 8925.5 | 8039.2 | 6547.1 | 5275.1 | 4628.3 | 4295.2 | 4160.8 | 4174.5 |
| 5316.0 | 42.5° | 6305.5 | 7951.5 | 9192.4 | 7863.9 | 5937.4 | 4638.1 | 4129.7 | 3981.6 | 4045.9 | 4100.4 |
| 5462.1 | 45° | 6710.7 | 8580.7 | 9358.0 | 7565.8 | 5247.8 | 4098.5 | 3835.5 | 3870.6 | 3919.3 | 3925.1 |
| 5697.8 | 47.5° | 7228.8 | 9217.7 | 9467.0 | 7115.9 | 4544.6 | 3718.6 | 3648.5 | 3656.3 | 3646.6 | 3605.7 |
| 6050.3 | 50° | 7875.6 | 9837.2 | 9564.4 | 6519.8 | 3946.5 | 3481.0 | 3387.5 | 3360.2 | 3225.8 | 3093.3 |
| 6519.8 | 52.5° | 8611.9 | 10406.0 | 9605.3 | 5779.6 | 3481.0 | 3282.3 | 3130.4 | 2958.9 | 2707.7 | 2666.7 |
| 7110.0 | 55° | 9430.0 | 10931.9 | 9500.2 | 4869.9 | 3089.4 | 3027.1 | 2797.3 | 2590.8 | 2563.5 | 2528.4 |
| 7887.3 | 57.5° | 10407.9 | 11498.8 | 9285.9 | 3855.0 | 2688.2 | 2729.1 | 2505.1 | 2528.4 | 2479.7 | 2425.2 |
| 8886.6 | 60° | 11477.3 | 12085.1 | 8909.9 | 2929.7 | 2273.3 | 2357.0 | 2429.1 | 2427.1 | 2413.5 | 2368.7 |
| 9940.4 | 62.5° | 12439.6 | 12470.8 | 8169.7 | 2244.0 | 1909.0 | 2068.7 | 2265.5 | 2263.5 | 2251.8 | 2226.5 |
| 11041.0 | 65° | 13012.3 | 12412.3 | 6934.7 | 1766.8 | 1609.0 | 1831.1 | 2043.4 | 2059.0 | 2060.9 | 2059.0 |
| 11868.9 | 67.5° | 12911.0 | 11728.6 | 5240.0 | 1406.4 | 1361.6 | 1589.5 | 1823.3 | 1844.7 | 1860.3 | 1864.2 |
| 11974.1 | 70° | 11765.6 | 10226.7 | 3416.7 | 1122.0 | 1141.5 | 1377.2 | 1614.9 | 1636.3 | 1649.9 | 1665.5 |
| 10390.4 | 72.5° | 9171.0 | 7519.1 | 1955.7 | 907.7 | 948.7 | 1194.1 | 1408.4 | 1433.7 | 1441.5 | 1470.7 |
| 7230.8 | 75° | 5588.7 | 4421.8 | 1055.8 | 714.9 | 779.2 | 1020.7 | 1203.8 | 1233.1 | 1246.7 | 1281.8 |
| 3551.1 | 77.5° | 2657.0 | 1914.8 | 601.9 | 557.1 | 627.2 | 833.7 | 1016.8 | 1049.9 | 1012.9 | 1032.4 |
| 979.8 | 80° | 898.0 | 711.0 | 379.9 | 424.7 | 479.2 | 650.6 | 814.2 | 847.4 | 769.4 | 765.5 |
| 325.3 | 82.5° | 313.6 | 288.3 | 241.5 | 282.5 | 309.7 | 465.6 | 615.6 | 658.4 | 572.7 | 570.7 |
| 146.1 | 85° | 122.7 | 116.9 | 134.4 | 153.9 | 185.1 | 286.3 | 405.2 | 426.6 | 352.6 | 284.4 |
| 42.9 | 87.5° | 25.3 | 27.3 | 33.1 | 35.1 | 56.5 | 99.3 | 146.1 | 179.2 | 142.2 | 120.8 |
| 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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| <u>180°</u> |
|-------------|
| 4199.8 |
| 4357.6 |
| 4587.4 |
| 4852.3 |
| 5154.3 |
| 5499.1 |
| 5923.7 |
| 6385.4 |
| 6636.7 |
| 6506.2 |
| 6155.5 |
| 5799.0 |
| 5487.4 |
| 5189.3 |
| 4867.9 |
| 4525.1 |
| 4221.2 |
| 4151.1 |
| 3964.1 |
| 3636.8 |
| 3110.9 |
| 2680.4 |
| 2534.3 |
| 2415.5 |
| 2353.1 |
| 2216.8 |
| 2059.0 |
| 1868.1 |
| 1673.3 |
| 1482.4 |
| 1285.6 |
| 1016.8 |
| 757.8 |
| 543.5 |
| 280.5 |
| 111.0 |
| 0.0 |

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