

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: P943972

Luminaire Tested: **GALN-SB8C-950-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943972
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-SB8C-950-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 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: 41759 lumens
Efficiency: N/A
Efficacy: 104.4 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

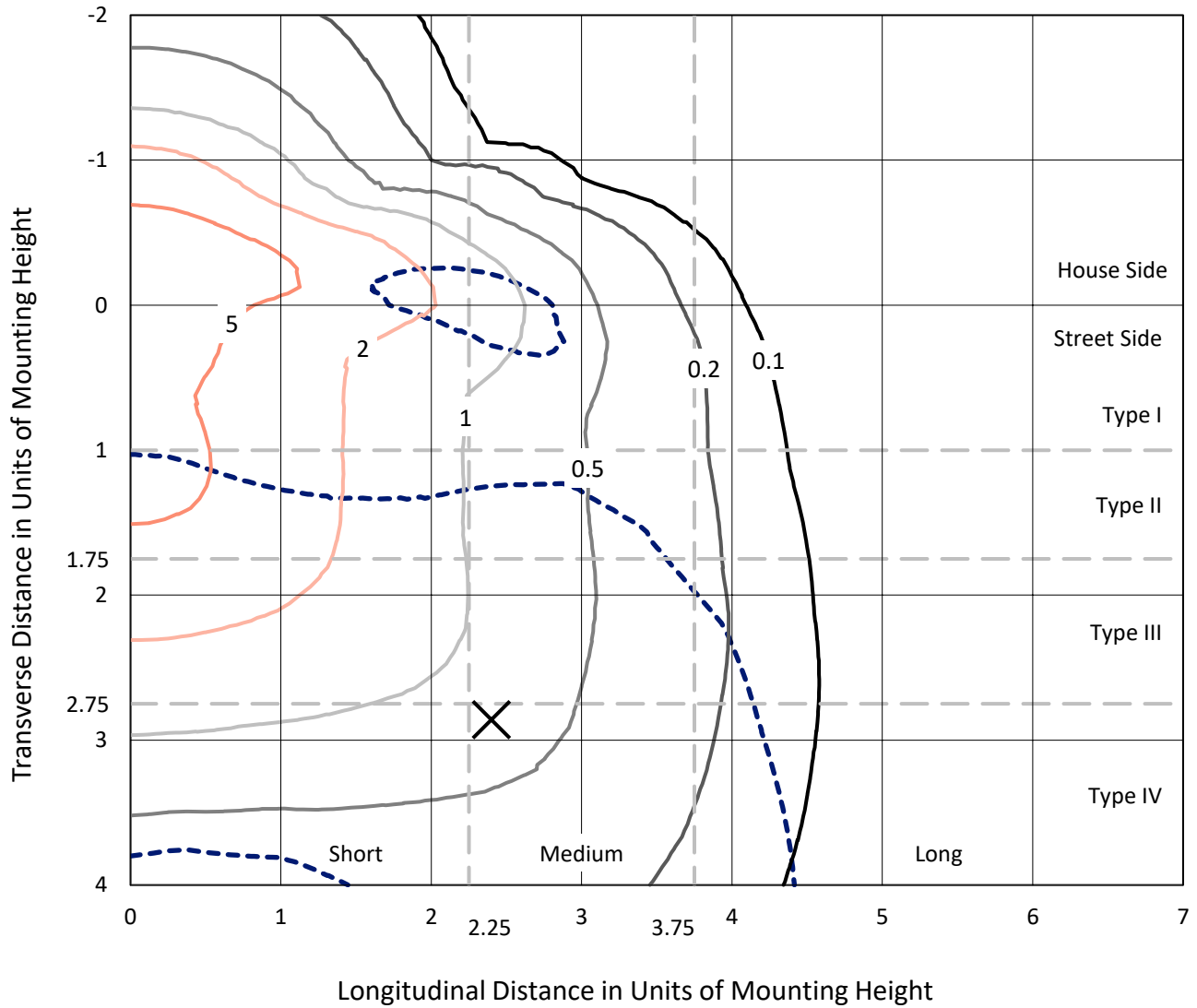
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

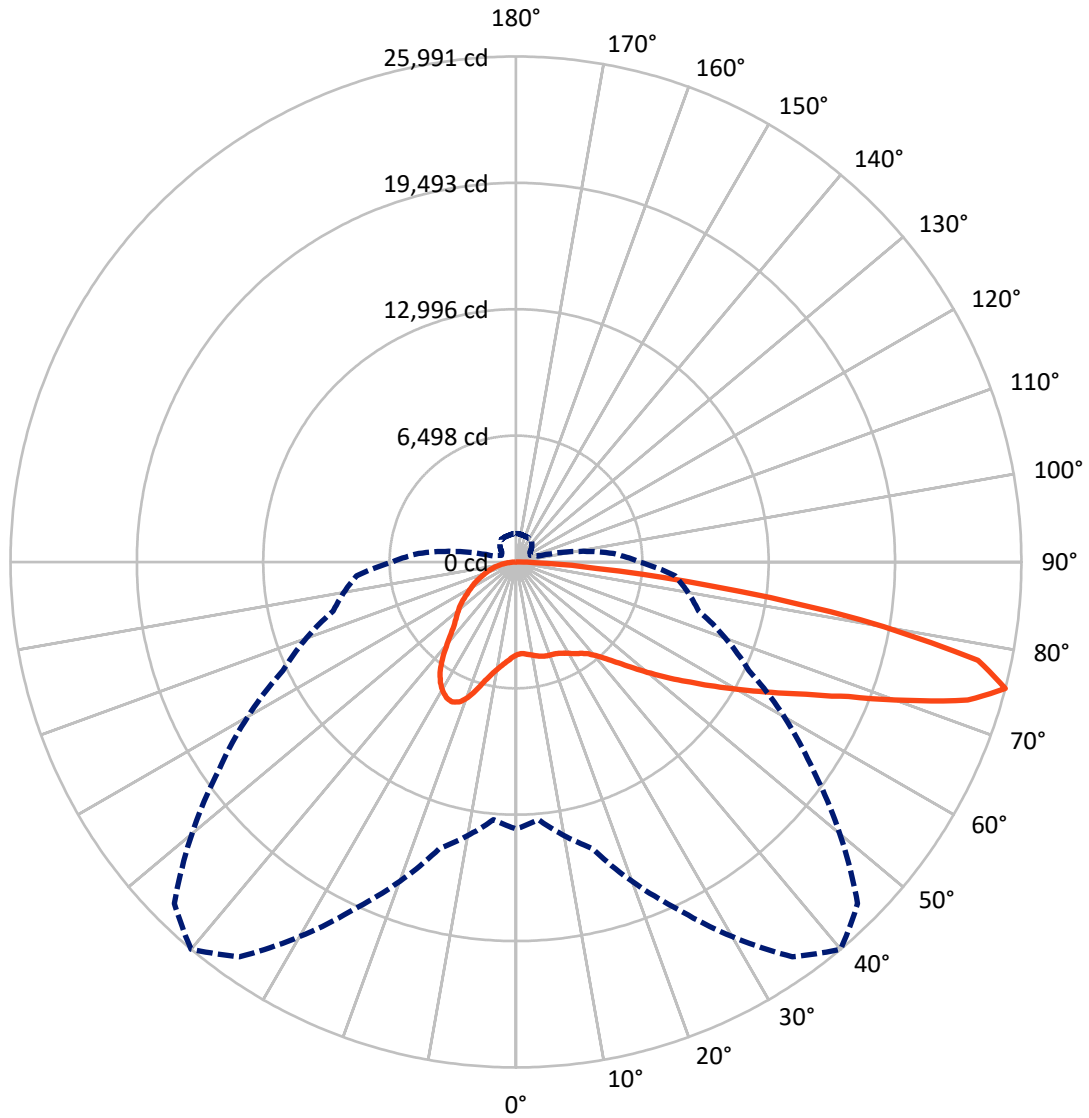
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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 | 12938.3 | 0.0 | 12938.3 |
| | % Fixture | 31.0 | 0.0 | 31.0 |
| Street Side | Lumens | 28820.7 | 0.0 | 28820.7 |
| | % Fixture | 69.0 | 0.0 | 69.0 |
| Total | Lumens | 41759.0 | 0.0 | 41759.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 476.7 | 1.1 |
| 10°-20° | 1600.4 | 3.8 |
| 20°-30° | 2922.1 | 7.0 |
| 30°-40° | 4144.4 | 9.9 |
| 40°-50° | 5596.1 | 13.4 |
| 50°-60° | 7528.3 | 18.0 |
| 60°-70° | 9555.1 | 22.9 |
| 70°-80° | 8671.9 | 20.8 |
| 80°-90° | 1264.1 | 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° | 41759.0 | 100.0 |
| 0°-180° | 41759.0 | 100.0 |



REPORT NUMBER: P943972

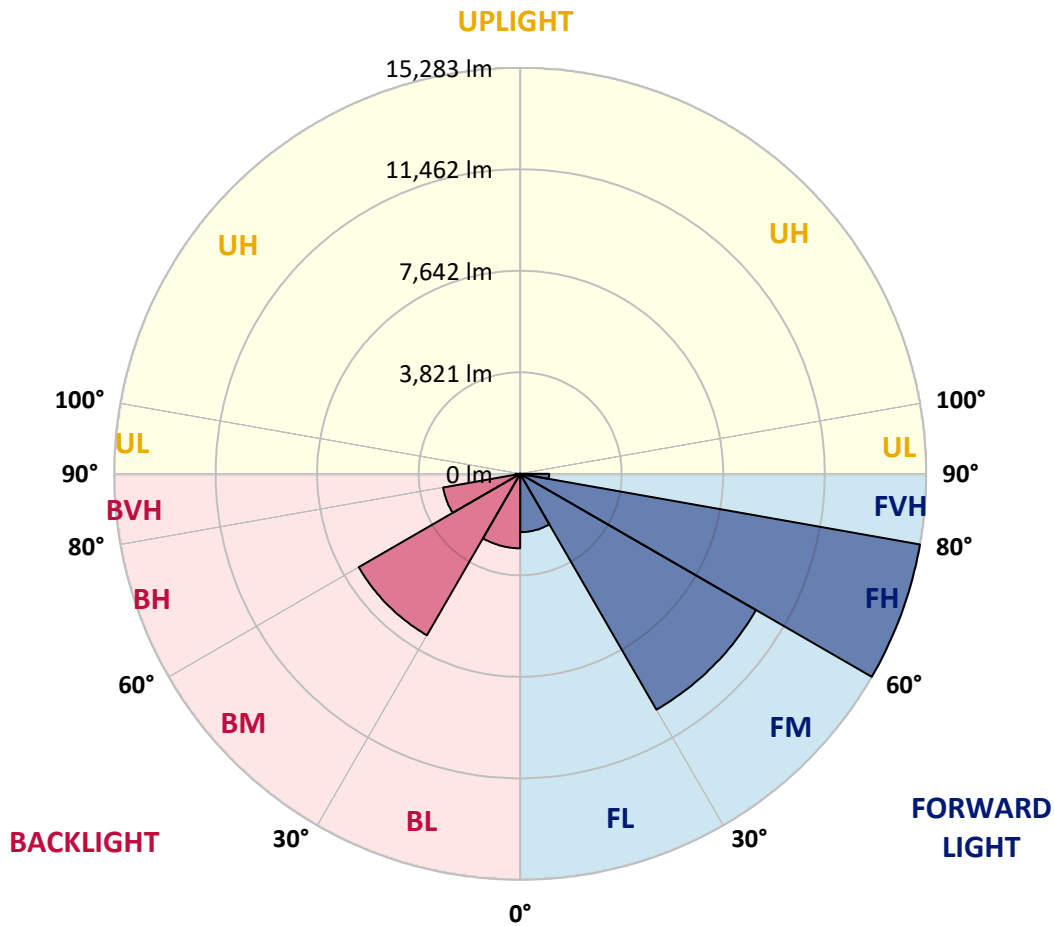
CATALOG NUMBER: GALN-SB8C-950-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2196.6 | 5.3 | | | |
| FM (30°-60°) | 10250.9 | 24.5 | | | |
| FH (60°-80°) | 15283.2 | 36.6 | | | G5 |
| FVH (80°-90°) | 1090.0 | 2.6 | | | G5 |
| BL (0°-30°) | 2802.6 | 6.7 | B4/5000 | | |
| BM (30°-60°) | 7017.9 | 16.8 | B4/8500 | | |
| BH (60°-80°) | 2943.9 | 7.0 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 174.0 | 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° | 4775.2 | 4775.2 | 4775.2 | 4775.2 | 4775.2 | 4775.2 | 4775.2 | 4775.2 | 4775.2 | 4775.2 |
| 2.5° | 4702.1 | 4728.7 | 4722.0 | 4713.2 | 4713.2 | 4715.4 | 4713.2 | 4728.7 | 4744.2 | 4759.7 |
| 5° | 4750.8 | 4777.4 | 4764.1 | 4753.0 | 4744.2 | 4742.0 | 4735.3 | 4733.1 | 4742.0 | 4761.9 |
| 7.5° | 4846.1 | 4872.7 | 4852.7 | 4832.8 | 4815.1 | 4806.2 | 4797.3 | 4784.1 | 4777.4 | 4788.5 |
| 10° | 4952.4 | 4979.0 | 4954.6 | 4919.2 | 4890.4 | 4879.3 | 4870.4 | 4857.1 | 4848.3 | 4854.9 |
| 12.5° | 5058.7 | 5085.3 | 5052.1 | 5003.3 | 4965.7 | 4959.0 | 4948.0 | 4943.5 | 4941.3 | 4939.1 |
| 15° | 5158.4 | 5180.5 | 5138.4 | 5080.8 | 5041.0 | 5029.9 | 5018.8 | 5025.5 | 5036.5 | 5049.8 |
| 17.5° | 5235.9 | 5258.0 | 5196.0 | 5120.7 | 5083.1 | 5078.6 | 5072.0 | 5094.1 | 5125.1 | 5158.4 |
| 20° | 5306.8 | 5328.9 | 5249.2 | 5147.3 | 5103.0 | 5103.0 | 5105.2 | 5151.7 | 5196.0 | 5244.7 |
| 22.5° | 5406.4 | 5424.1 | 5326.7 | 5187.2 | 5122.9 | 5127.4 | 5145.1 | 5191.6 | 5247.0 | 5313.4 |
| 25° | 5554.8 | 5568.1 | 5448.5 | 5262.5 | 5189.4 | 5202.7 | 5218.2 | 5240.3 | 5293.5 | 5371.0 |
| 27.5° | 5794.0 | 5805.1 | 5647.8 | 5395.4 | 5284.6 | 5306.8 | 5328.9 | 5313.4 | 5337.8 | 5404.2 |
| 30° | 6130.7 | 6137.3 | 5938.0 | 5603.5 | 5446.3 | 5457.4 | 5461.8 | 5397.6 | 5351.1 | 5404.2 |
| 32.5° | 6529.4 | 6527.1 | 6290.1 | 5856.0 | 5630.1 | 5619.1 | 5581.4 | 5455.2 | 5346.6 | 5393.1 |
| 35° | 7147.3 | 7122.9 | 6817.3 | 6210.4 | 5838.3 | 5769.7 | 5681.1 | 5519.4 | 5368.8 | 5382.1 |
| 37.5° | 8170.5 | 8095.2 | 7672.2 | 6790.7 | 6148.4 | 5973.4 | 5842.8 | 5623.5 | 5417.5 | 5377.6 |
| 40° | 9324.5 | 9229.2 | 8764.1 | 7585.8 | 6613.5 | 6332.2 | 6121.8 | 5771.9 | 5497.2 | 5397.6 |
| 42.5° | 10693.3 | 10558.1 | 10057.6 | 8522.7 | 7202.7 | 6795.1 | 6478.4 | 5960.1 | 5614.6 | 5461.8 |
| 45° | 12374.3 | 12194.9 | 11486.2 | 9579.2 | 7944.6 | 7402.0 | 6979.0 | 6245.9 | 5794.0 | 5585.8 |
| 47.5° | 14073.1 | 14117.4 | 13109.6 | 10788.5 | 8835.0 | 8150.6 | 7605.8 | 6675.5 | 6055.4 | 5785.2 |
| 50° | 15878.2 | 15909.2 | 14724.3 | 12128.5 | 9845.0 | 8996.7 | 8310.1 | 7156.2 | 6418.6 | 6068.7 |
| 52.5° | 17286.8 | 17291.3 | 16190.5 | 13530.5 | 10897.0 | 9926.9 | 9069.8 | 7705.4 | 6839.4 | 6445.2 |
| 55° | 18168.3 | 18157.3 | 17218.2 | 14857.2 | 12106.3 | 10903.7 | 9911.4 | 8330.0 | 7353.3 | 6888.2 |
| 57.5° | 18808.4 | 18775.2 | 17926.9 | 15997.8 | 13395.4 | 12057.6 | 10863.8 | 9038.8 | 7960.1 | 7415.3 |
| 60° | 19052.1 | 19032.1 | 18407.5 | 16983.4 | 14750.8 | 13333.3 | 11962.4 | 9831.7 | 8649.0 | 8037.7 |
| 62.5° | 19145.1 | 19182.7 | 18879.3 | 17938.0 | 16201.6 | 14746.4 | 13169.4 | 10779.6 | 9424.1 | 8742.0 |
| 65° | 19472.9 | 19541.5 | 19479.5 | 19187.2 | 17840.5 | 16400.9 | 14770.8 | 11907.0 | 10270.2 | 9497.2 |
| 67.5° | 20121.8 | 20190.5 | 20217.1 | 20682.2 | 19842.8 | 18462.9 | 16768.6 | 13311.2 | 11260.3 | 10281.3 |
| 70° | 20106.3 | 20086.4 | 20555.9 | 21871.6 | 22350.0 | 21317.8 | 19461.8 | 15038.8 | 12440.8 | 10932.5 |
| 72.5° | 18301.2 | 18141.8 | 19251.4 | 21858.3 | 24436.3 | 24299.0 | 22750.8 | 17266.9 | 13459.6 | 11012.2 |
| 75° | 13729.8 | 13304.6 | 15264.7 | 19698.8 | 24784.1 | 25991.2 | 24841.7 | 18649.0 | 13218.2 | 9729.8 |
| 77.5° | 5871.5 | 5444.1 | 7754.2 | 14582.5 | 22181.6 | 24296.8 | 22923.6 | 16270.2 | 10551.5 | 6434.1 |
| 80° | 1537.1 | 1534.9 | 2343.3 | 6611.3 | 15085.3 | 17942.4 | 15740.9 | 10507.2 | 6028.8 | 2299.0 |
| 82.5° | 635.7 | 620.2 | 861.6 | 2571.4 | 7371.0 | 10068.7 | 8217.1 | 4686.6 | 2177.2 | 622.4 |
| 85° | 237.0 | 234.8 | 418.6 | 888.2 | 2600.2 | 4152.8 | 3005.5 | 1198.2 | 542.6 | 303.4 |
| 87.5° | 66.4 | 64.2 | 90.8 | 307.9 | 633.4 | 961.2 | 513.8 | 197.1 | 152.8 | 119.6 |
| 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-SB8C-950-U-SL4

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| 4775.2 | 0° | 4775.2 | 4775.2 | 4775.2 | 4775.2 | 4775.2 | 4775.2 | 4775.2 | 4775.2 | 4775.2 | 4775.2 |
| 4784.1 | 2.5° | 4790.7 | 4801.8 | 4821.7 | 4837.2 | 4857.1 | 4879.3 | 4910.3 | 4930.2 | 4950.2 | 4963.5 |
| 4795.1 | 5° | 4810.6 | 4835.0 | 4885.9 | 4936.9 | 4996.7 | 5052.1 | 5116.3 | 5162.8 | 5200.4 | 5211.5 |
| 4835.0 | 7.5° | 4854.9 | 4894.8 | 4981.2 | 5067.6 | 5162.8 | 5253.6 | 5346.6 | 5426.4 | 5490.6 | 5515.0 |
| 4905.9 | 10° | 4932.5 | 4985.6 | 5107.4 | 5229.2 | 5355.5 | 5495.0 | 5614.6 | 5729.8 | 5820.6 | 5858.3 |
| 4990.0 | 12.5° | 5029.9 | 5096.3 | 5255.8 | 5424.1 | 5599.1 | 5791.8 | 5946.8 | 6088.6 | 6201.6 | 6252.5 |
| 5107.4 | 15° | 5156.1 | 5242.5 | 5446.3 | 5672.2 | 5929.1 | 6197.1 | 6394.2 | 6551.5 | 6677.7 | 6739.8 |
| 5229.2 | 17.5° | 5293.5 | 5408.6 | 5665.6 | 6006.6 | 6374.3 | 6726.5 | 6956.8 | 7072.0 | 7202.7 | 7262.5 |
| 5342.2 | 20° | 5426.4 | 5568.1 | 5935.8 | 6431.9 | 6921.4 | 7295.7 | 7481.7 | 7512.7 | 7521.6 | 7528.2 |
| 5448.5 | 22.5° | 5563.7 | 5754.2 | 6274.6 | 6967.9 | 7492.8 | 7751.9 | 7778.5 | 7645.6 | 7459.6 | 7373.2 |
| 5552.6 | 25° | 5714.3 | 5966.8 | 6717.6 | 7559.3 | 7984.5 | 8015.5 | 7811.7 | 7488.4 | 7136.2 | 6974.5 |
| 5636.8 | 27.5° | 5860.5 | 6212.6 | 7249.2 | 8124.0 | 8338.9 | 8066.5 | 7627.9 | 7169.4 | 6744.2 | 6573.6 |
| 5696.6 | 30° | 6006.6 | 6493.9 | 7836.1 | 8617.9 | 8500.6 | 7940.2 | 7337.8 | 6826.1 | 6398.7 | 6219.3 |
| 5749.7 | 32.5° | 6155.0 | 6821.7 | 8511.6 | 8974.5 | 8471.8 | 7672.2 | 6976.7 | 6440.8 | 6064.2 | 5876.0 |
| 5796.2 | 35° | 6323.4 | 7224.8 | 9151.7 | 9169.4 | 8279.1 | 7278.0 | 6500.6 | 5980.1 | 5652.3 | 5501.7 |
| 5851.6 | 37.5° | 6542.6 | 7736.4 | 9716.5 | 9218.2 | 7942.4 | 6699.9 | 5909.2 | 5435.2 | 5165.0 | 5096.3 |
| 5933.6 | 40° | 6815.1 | 8352.2 | 10148.4 | 9140.6 | 7444.1 | 5997.8 | 5262.5 | 4883.7 | 4730.9 | 4746.4 |
| 6044.3 | 42.5° | 7169.4 | 9041.0 | 10451.8 | 8941.3 | 6750.8 | 5273.5 | 4695.5 | 4527.1 | 4600.2 | 4662.2 |
| 6210.4 | 45° | 7630.1 | 9756.4 | 10640.1 | 8602.4 | 5966.8 | 4660.0 | 4361.0 | 4400.9 | 4456.3 | 4462.9 |
| 6478.4 | 47.5° | 8219.3 | 10480.6 | 10764.1 | 8090.8 | 5167.2 | 4228.1 | 4148.4 | 4157.3 | 4146.2 | 4099.7 |
| 6879.3 | 50° | 8954.6 | 11184.9 | 10874.9 | 7413.1 | 4487.3 | 3957.9 | 3851.6 | 3820.6 | 3667.8 | 3517.2 |
| 7413.1 | 52.5° | 9791.8 | 11831.7 | 10921.4 | 6571.4 | 3957.9 | 3732.0 | 3559.2 | 3364.3 | 3078.6 | 3032.1 |
| 8084.2 | 55° | 10722.0 | 12429.7 | 10801.8 | 5537.1 | 3512.7 | 3441.9 | 3180.5 | 2945.7 | 2914.7 | 2874.9 |
| 8967.9 | 57.5° | 11833.9 | 13074.2 | 10558.1 | 4383.2 | 3056.5 | 3103.0 | 2848.3 | 2874.9 | 2819.5 | 2757.5 |
| 10104.1 | 60° | 13049.8 | 13740.9 | 10130.7 | 3331.1 | 2584.7 | 2680.0 | 2761.9 | 2759.7 | 2744.2 | 2693.2 |
| 11302.3 | 62.5° | 14144.0 | 14179.4 | 9289.0 | 2551.5 | 2170.5 | 2352.2 | 2575.9 | 2573.6 | 2560.4 | 2531.6 |
| 12553.7 | 65° | 14795.1 | 14113.0 | 7884.8 | 2008.9 | 1829.5 | 2082.0 | 2323.4 | 2341.1 | 2343.3 | 2341.1 |
| 13495.0 | 67.5° | 14680.0 | 13335.6 | 5957.9 | 1599.1 | 1548.2 | 1807.3 | 2073.1 | 2097.5 | 2115.2 | 2119.6 |
| 13614.6 | 70° | 13377.6 | 11627.9 | 3884.8 | 1275.7 | 1297.9 | 1565.9 | 1836.1 | 1860.5 | 1876.0 | 1893.7 |
| 11814.0 | 72.5° | 10427.5 | 8549.3 | 2223.7 | 1032.1 | 1078.6 | 1357.7 | 1601.3 | 1630.1 | 1639.0 | 1672.2 |
| 8221.5 | 75° | 6354.4 | 5027.7 | 1200.4 | 812.8 | 885.9 | 1160.6 | 1368.8 | 1402.0 | 1417.5 | 1457.4 |
| 4037.7 | 77.5° | 3021.0 | 2177.2 | 684.4 | 633.4 | 713.2 | 948.0 | 1156.1 | 1193.8 | 1151.7 | 1173.9 |
| 1114.1 | 80° | 1021.0 | 808.4 | 431.9 | 482.8 | 544.9 | 739.8 | 925.8 | 963.5 | 874.9 | 870.4 |
| 369.9 | 82.5° | 356.6 | 327.8 | 274.6 | 321.2 | 352.2 | 529.3 | 699.9 | 748.6 | 651.2 | 648.9 |
| 166.1 | 85° | 139.5 | 132.9 | 152.8 | 175.0 | 210.4 | 325.6 | 460.7 | 485.1 | 400.9 | 323.4 |
| 48.7 | 87.5° | 28.8 | 31.0 | 37.7 | 39.9 | 64.2 | 113.0 | 166.1 | 203.8 | 161.7 | 137.3 |
| 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> |
|-------------|
| 4775.2 |
| 4954.6 |
| 5216.0 |
| 5517.2 |
| 5860.5 |
| 6252.5 |
| 6735.3 |
| 7260.2 |
| 7546.0 |
| 7397.6 |
| 6998.9 |
| 6593.6 |
| 6239.2 |
| 5900.3 |
| 5534.9 |
| 5145.1 |
| 4799.6 |
| 4719.8 |
| 4507.2 |
| 4135.1 |
| 3537.1 |
| 3047.6 |
| 2881.5 |
| 2746.4 |
| 2675.5 |
| 2520.5 |
| 2341.1 |
| 2124.0 |
| 1902.5 |
| 1685.5 |
| 1461.8 |
| 1156.1 |
| 861.6 |
| 617.9 |
| 318.9 |
| 126.2 |
| 0.0 |

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