

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: P955896

Luminaire Tested: **GALN-SB8C-950-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955896
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
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-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42045 lumens
Efficiency: N/A
Efficacy: 105.2 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

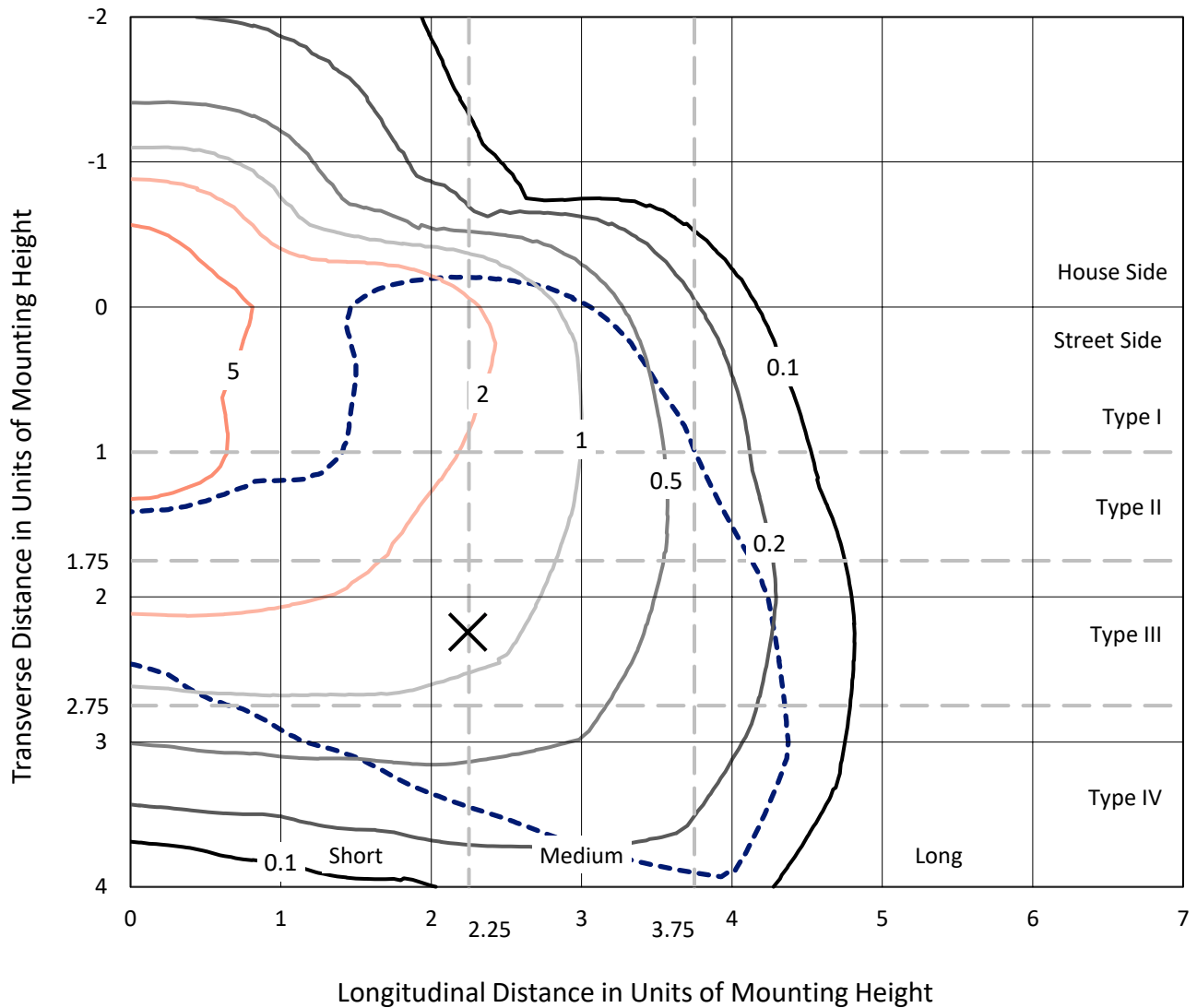
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

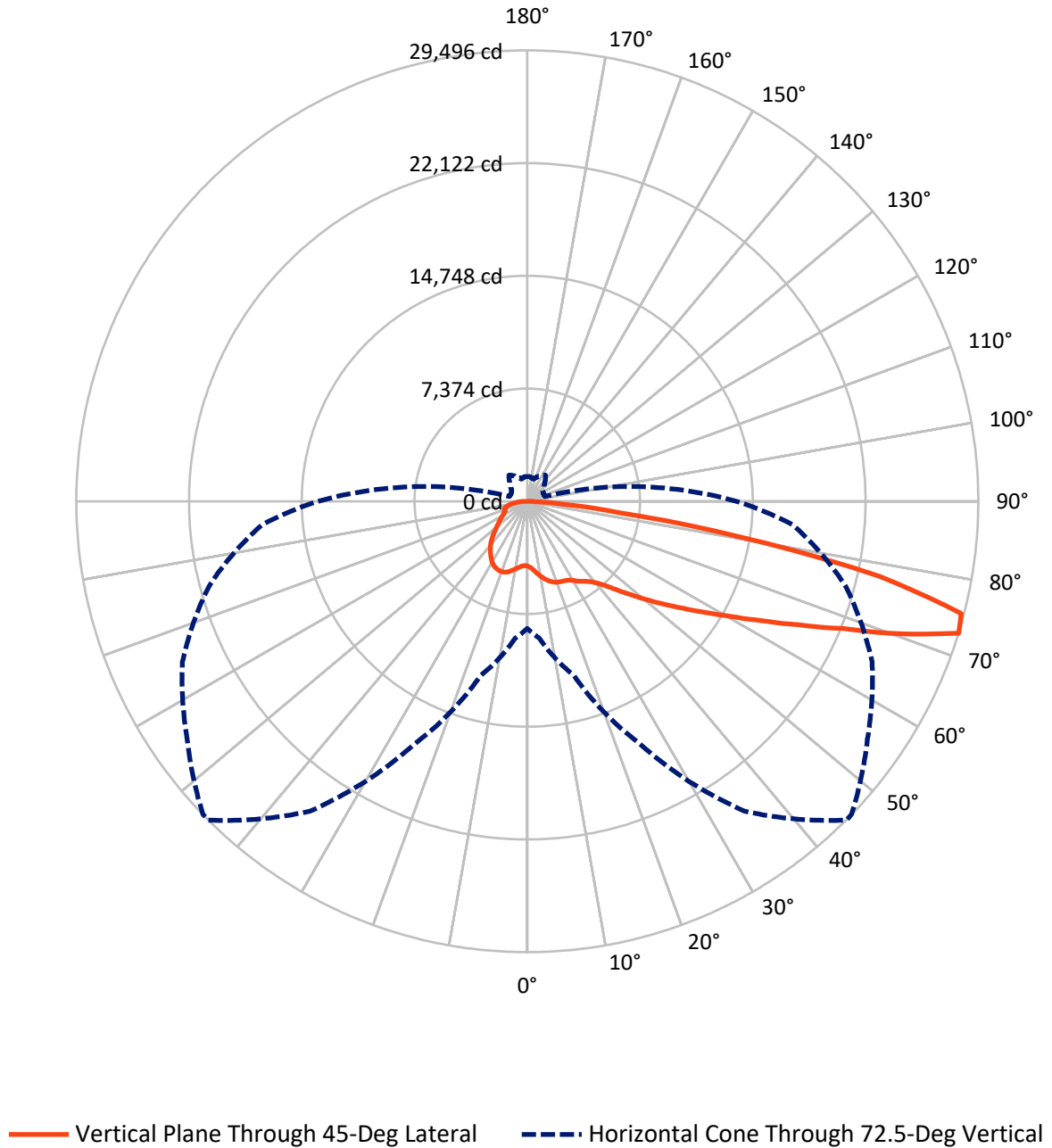
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9504.9	0.0	9504.9
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	32540.1	0.0	32540.1
	% Fixture	77.4	0.0	77.4
Total	Lumens	42045.0	0.0	42045.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	431.7	1.0
10°-20°	1439.4	3.4
20°-30°	2503.8	6.0
30°-40°	3589.4	8.5
40°-50°	5054.1	12.0
50°-60°	7741.3	18.4
60°-70°	11214.5	26.7
70°-80°	8955.4	21.3
80°-90°	1115.4	2.7
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°	42045.0	100.0
0°-180°	42045.0	100.0



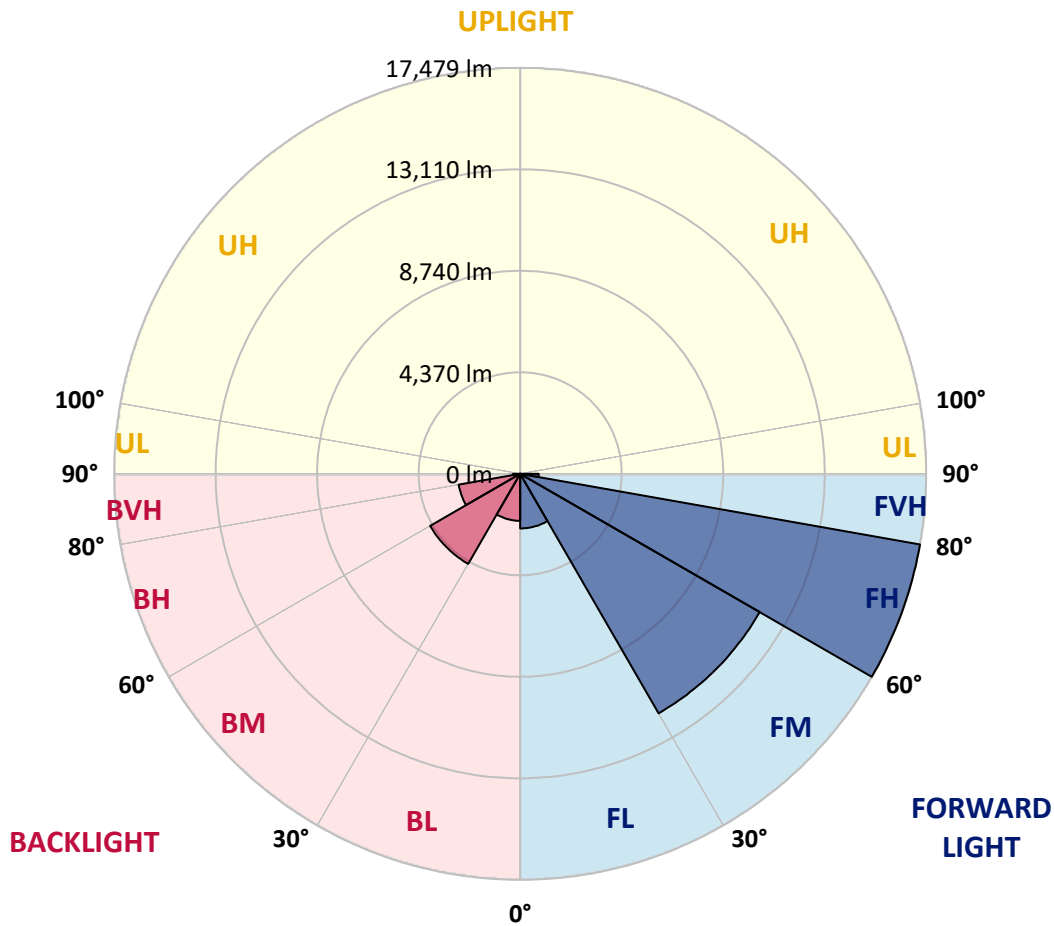
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2351.2	5.6			
FM (30°-60°)	11909.3	28.3			
FH (60°-80°)	17479.3	41.6			G5
FVH (80°-90°)	800.2	1.9			G5
BL (0°-30°)	2023.7	4.8	B3/2500		
BM (30°-60°)	4475.5	10.6	B3/5000		
BH (60°-80°)	2690.6	6.4	B4/5000		G4/5000
BVH (80°-90°)	315.2	0.7			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°	45°	46°	55°	65°	75°
0°	4241.5	4241.5	4241.5	4241.5	4241.5	4241.5	4241.5	4241.5	4241.5	4241.5
2.5°	4407.6	4436.4	4409.9	4385.5	4374.4	4345.6	4343.4	4325.7	4314.6	4283.6
5°	4715.5	4753.2	4708.9	4660.1	4615.8	4545.0	4536.1	4485.2	4427.6	4361.1
7.5°	5063.2	5096.5	5045.5	4972.4	4894.9	4777.5	4775.3	4682.3	4591.5	4478.5
10°	5366.7	5411.0	5342.3	5242.7	5145.2	5012.3	4996.8	4890.5	4775.3	4629.1
12.5°	5634.7	5665.7	5599.3	5477.4	5364.5	5231.6	5211.6	5094.3	4965.8	4799.7
15°	5847.3	5887.2	5798.6	5667.9	5548.3	5417.6	5399.9	5293.6	5165.1	4990.2
17.5°	5986.9	6020.1	5929.3	5783.1	5667.9	5559.4	5546.1	5457.5	5344.5	5167.3
20°	6040.0	6075.5	5980.2	5831.8	5725.5	5641.3	5634.7	5570.5	5492.9	5331.3
22.5°	6093.2	6126.4	6002.4	5847.3	5754.3	5701.1	5698.9	5656.8	5625.8	5492.9
25°	6308.0	6316.9	6150.8	5927.1	5794.2	5747.7	5745.4	5743.2	5756.5	5652.4
27.5°	6494.1	6491.9	6350.1	6139.7	5933.7	5836.2	5834.0	5856.2	5898.3	5811.9
30°	6766.5	6742.1	6573.8	6354.5	6166.3	6015.7	6002.4	5982.4	6015.7	5947.0
32.5°	7344.6	7267.1	6994.6	6604.8	6359.0	6243.8	6226.1	6102.0	6115.3	6073.2
35°	8173.0	8071.1	7707.8	7078.8	6598.2	6434.3	6425.4	6268.2	6241.6	6203.9
37.5°	9158.6	9032.3	8609.3	7765.4	7010.1	6655.8	6642.5	6500.7	6392.2	6352.3
40°	10148.6	9989.2	9639.2	8602.6	7617.0	7025.6	6983.6	6768.7	6644.7	6578.2
42.5°	11109.9	10977.0	10678.0	9541.8	8365.7	7566.1	7473.1	7105.4	7012.4	6950.3
45°	11960.4	11840.8	11621.5	10545.1	9242.8	8301.4	8210.6	7610.4	7581.6	7581.6
47.5°	12651.5	12624.9	12392.3	11568.4	10277.1	9138.7	8981.4	8312.5	8390.0	8509.6
50°	13417.8	13344.7	13096.7	12576.2	11493.1	10097.7	9969.2	9174.1	9464.2	9792.0
52.5°	14122.2	14162.0	13885.2	13626.0	12866.3	11167.5	10941.6	10190.7	10817.5	11360.2
55°	14846.4	14848.6	14771.1	14735.7	14306.0	12350.2	12102.2	11413.3	12410.1	13083.4
57.5°	15526.4	15530.8	15646.0	15958.3	15976.0	13714.6	13433.3	12915.0	14179.8	14866.4
60°	16133.3	16164.3	16478.8	17209.7	17444.5	15278.3	15012.6	14689.2	16009.3	16700.3
62.5°	16337.1	16450.0	17149.9	18188.7	18895.3	17196.4	16935.1	16742.4	17931.8	18574.1
65°	15991.5	16250.7	17604.0	18997.1	20388.1	19475.6	19216.4	19006.0	19929.6	20534.3
67.5°	15143.2	15477.7	17577.4	19845.5	22199.9	22217.6	21976.2	21482.3	22071.4	22304.0
70°	12908.4	13409.0	16029.2	20162.2	24279.7	25967.4	25734.9	24463.5	24208.8	23083.6
72.5°	8316.9	8990.3	11803.2	17555.3	24742.6	29495.7	29482.5	27154.6	24884.3	21568.6
75°	3034.4	3446.4	5484.1	11019.1	20769.1	29316.3	29402.7	26693.9	22716.0	16660.4
77.5°	1105.2	1209.3	1789.6	4234.9	12773.3	23522.2	23701.6	21340.5	16168.7	8361.2
80°	580.3	637.9	917.0	1643.5	5473.0	13969.3	14250.6	12682.5	7599.3	2518.3
82.5°	321.2	347.7	513.9	892.6	2465.2	5973.6	6141.9	5010.1	2673.4	1067.6
85°	172.8	183.8	241.4	487.3	1204.9	2070.9	2117.4	1497.3	1065.4	626.8
87.5°	50.9	62.0	79.7	155.0	471.8	465.1	476.2	296.8	420.8	316.7
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°
4241.5	0°	4241.5	4241.5	4241.5	4241.5	4241.5	4241.5	4241.5	4241.5	4241.5	4241.5
4274.7	2.5°	4261.5	4254.8	4230.4	4219.4	4206.1	4203.9	4214.9	4217.2	4219.4	4221.6
4323.5	5°	4301.3	4279.2	4257.0	4243.7	4248.2	4250.4	4272.5	4288.0	4299.1	4308.0
4414.3	7.5°	4378.8	4361.1	4323.5	4321.3	4327.9	4347.8	4376.6	4412.1	4432.0	4447.5
4531.7	10°	4494.0	4460.8	4416.5	4423.1	4436.4	4465.2	4525.0	4553.8	4587.0	4615.8
4675.6	12.5°	4611.4	4582.6	4531.7	4536.1	4558.3	4609.2	4666.8	4702.2	4724.4	4746.5
4830.7	15°	4764.2	4713.3	4657.9	4657.9	4697.8	4753.2	4779.7	4808.5	4821.8	4846.2
4996.8	17.5°	4921.5	4855.0	4782.0	4777.5	4826.3	4852.8	4868.3	4872.8	4877.2	4903.8
5158.5	20°	5078.8	5005.7	4901.6	4892.7	4903.8	4899.3	4897.1	4892.7	4899.3	4932.6
5324.6	22.5°	5233.8	5149.6	5005.7	4965.8	4934.8	4892.7	4890.5	4888.3	4892.7	4925.9
5504.0	25°	5415.4	5313.5	5120.8	5001.2	4897.1	4839.5	4846.2	4848.4	4852.8	4879.4
5690.1	27.5°	5612.5	5499.6	5227.2	4990.2	4801.9	4762.0	4750.9	4757.6	4773.1	4815.2
5876.1	30°	5809.7	5676.8	5324.6	4945.9	4682.3	4626.9	4591.5	4607.0	4655.7	4697.8
6037.8	32.5°	5989.1	5856.2	5402.1	4848.4	4529.5	4443.1	4396.6	4416.5	4465.2	4480.7
6217.2	35°	6199.5	6048.9	5435.4	4693.4	4363.3	4230.4	4168.4	4139.6	4164.0	4148.5
6427.6	37.5°	6434.3	6277.0	5430.9	4489.6	4168.4	4015.6	3929.2	3820.7	3769.7	3716.6
6737.7	40°	6782.0	6556.1	5377.8	4243.7	3927.0	3787.5	3632.4	3448.6	3333.4	3229.3
7238.3	42.5°	7256.0	6943.7	5280.3	3973.5	3654.6	3523.9	3313.5	3098.6	2917.0	2744.3
7998.0	45°	7962.5	7450.9	5158.5	3685.6	3360.0	3231.5	3003.4	2762.0	2556.0	2334.5
9076.6	47.5°	8981.4	8133.1	5043.3	3357.8	3049.9	2932.5	2726.5	2502.8	2259.2	2044.3
10635.9	50°	10381.2	9112.1	4937.0	3038.8	2744.3	2655.7	2491.8	2263.6	2017.8	1845.0
12463.2	52.5°	12162.0	10443.2	4892.7	2731.0	2458.5	2425.3	2294.6	2082.0	1849.4	1703.3
14593.9	55°	14206.3	12035.7	4892.7	2436.4	2208.2	2219.3	2128.5	1931.4	1729.8	1599.2
16791.1	57.5°	16292.8	13648.2	4804.1	2164.0	1995.6	2042.1	1984.5	1811.8	1630.2	1495.1
19101.2	60°	18215.3	14999.3	4445.3	1915.9	1807.4	1880.4	1842.8	1694.4	1472.9	1359.9
21032.6	62.5°	19692.6	15761.2	3754.2	1718.8	1652.3	1736.5	1716.5	1539.4	1444.1	1397.6
22618.5	65°	20432.4	15637.2	2870.5	1543.8	1521.6	1652.3	1610.2	1603.6	1528.3	1475.1
23134.6	67.5°	19978.3	14569.6	2082.0	1415.3	1446.3	1574.8	1736.5	1763.1	1623.5	1519.4
21681.6	70°	17987.2	12638.2	1550.4	1293.5	1351.1	1577.0	1980.1	1845.0	1592.5	1470.7
17389.1	72.5°	13683.6	9424.4	1202.7	1165.0	1227.1	1588.1	2088.6	1807.4	1503.9	1625.7
10833.0	75°	7825.2	5174.0	965.7	1007.8	1072.0	1484.0	2033.3	1709.9	1435.3	1492.8
4292.5	77.5°	2983.5	1989.0	797.4	852.7	861.6	1295.7	1944.7	1703.3	1366.6	1333.4
1286.9	80°	1034.4	777.4	660.0	677.8	666.7	1151.7	1864.9	1481.8	1118.5	1001.1
531.6	82.5°	423.0	387.6	522.7	500.6	474.0	894.8	1506.1	1211.5	914.8	808.4
256.9	85°	183.8	245.9	345.5	303.4	274.6	620.2	1207.1	1025.5	773.0	666.7
84.2	87.5°	37.7	93.0	146.2	137.3	141.8	414.2	857.2	728.7	547.1	409.8
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>
4241.5
4230.4
4312.4
4451.9
4609.2
4755.4
4855.0
4912.6
4945.9
4948.1
4914.8
4857.3
4744.3
4536.1
4197.2
3749.8
3236.0
2728.7
2307.9
2020.0
1833.9
1692.2
1585.9
1472.9
1342.2
1382.1
1457.4
1501.7
1450.8
1612.4
1492.8
1216.0
967.9
799.6
664.5
321.2
0.0

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