

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: P943517

Luminaire Tested: **GALN-SB8A-740-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943517
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8A-740-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38401 lumens
Efficiency: N/A
Efficacy: 169.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

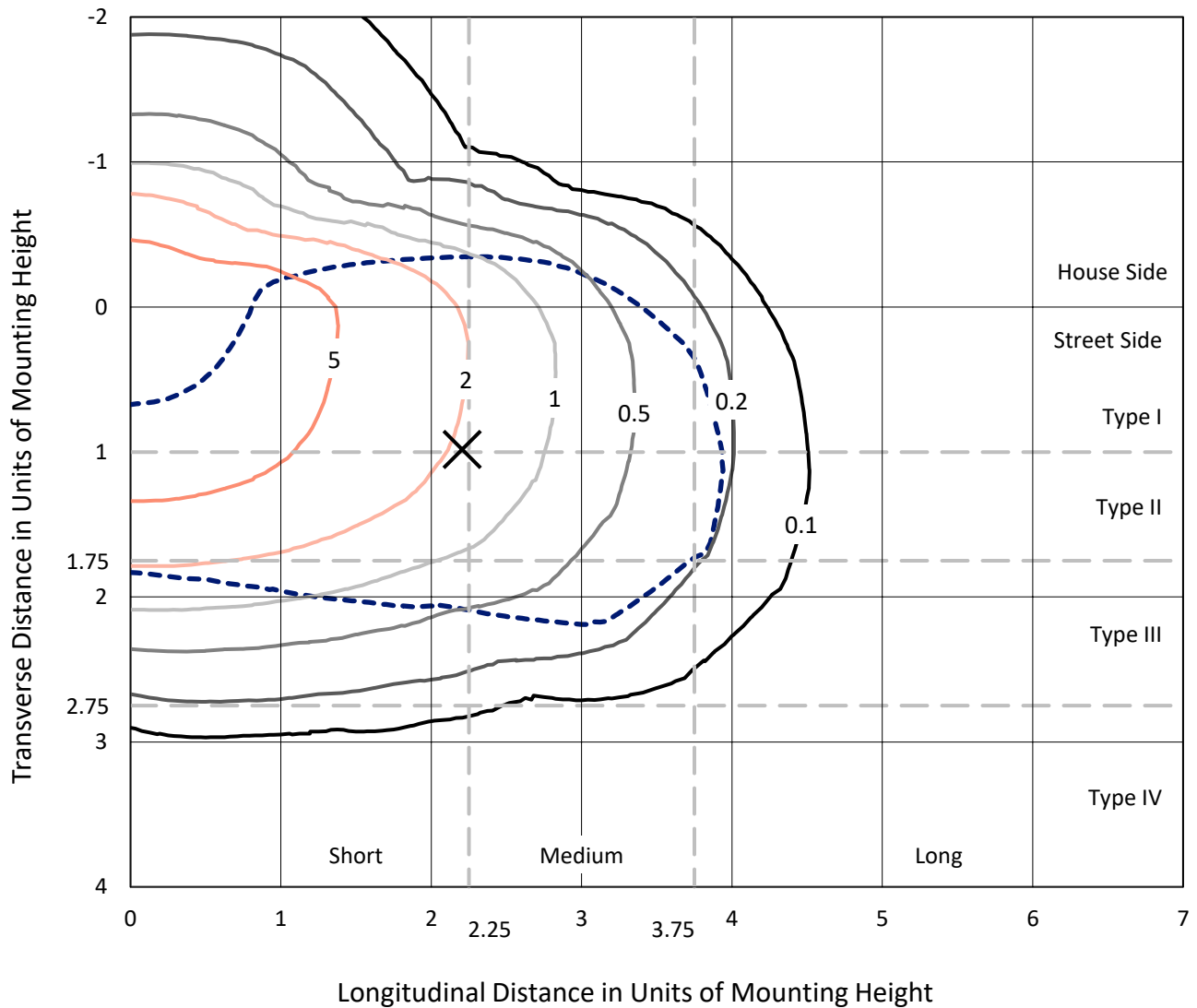
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

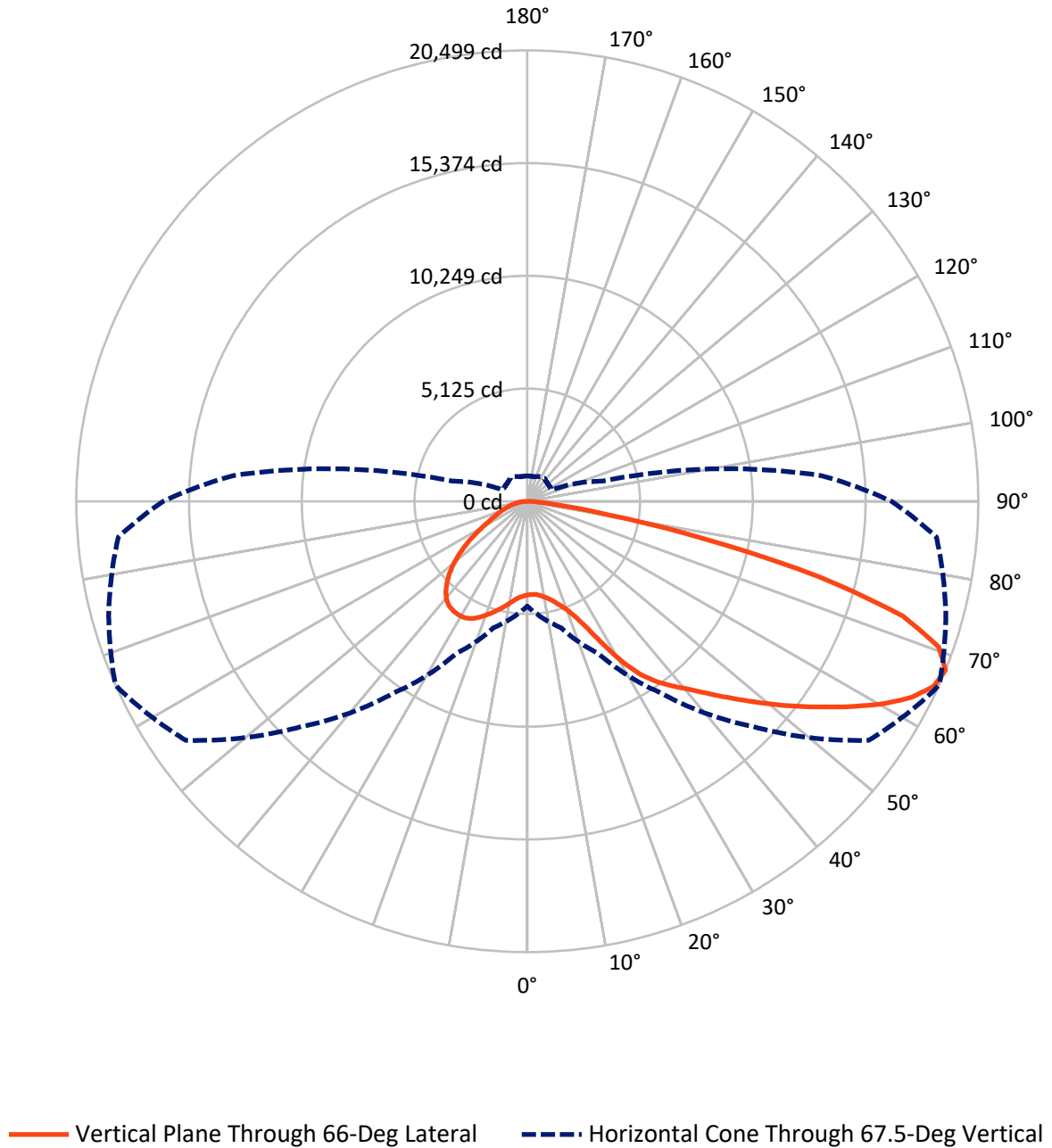
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9548.3	0.0	9548.3
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	28852.7	0.0	28852.7
	% Fixture	75.1	0.0	75.1
Total	Lumens	38401.0	0.0	38401.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.3	1.1
10°-20°	1395.2	3.6
20°-30°	2689.1	7.0
30°-40°	4715.0	12.3
40°-50°	7009.6	18.3
50°-60°	8885.4	23.1
60°-70°	8694.1	22.6
70°-80°	4147.2	10.8
80°-90°	443.2	1.2
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°	38401.0	100.0
0°-180°	38401.0	100.0



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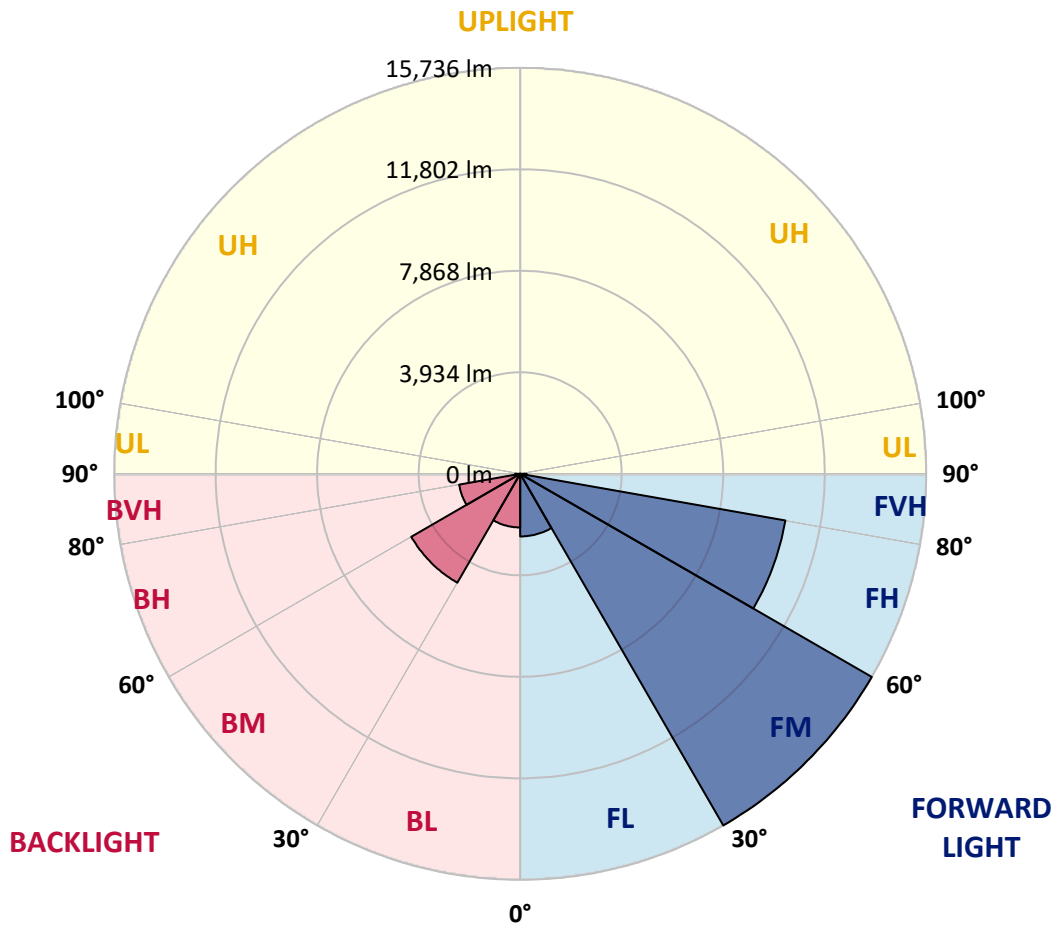
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2426.6	6.3			
FM (30°-60°)	15736.4	41.0			
FH (60°-80°)	10438.4	27.2			G4/12000
FVH (80°-90°)	251.3	0.7			G3/500
BL (0°-30°)	2080.0	5.4	B3/2500		
BM (30°-60°)	4873.6	12.7	B3/5000		
BH (60°-80°)	2402.8	6.3	B3/2500		G3/2500
BVH (80°-90°)	191.9	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	4259.2	4259.2	4259.2	4259.2	4259.2	4259.2	4259.2	4259.2	4259.2	4259.2
2.5°	4214.8	4239.0	4232.9	4222.9	4220.8	4224.9	4230.9	4237.0	4235.0	4245.1
5°	4202.7	4226.9	4224.9	4224.9	4232.9	4249.1	4259.2	4269.3	4259.2	4271.3
7.5°	4210.8	4228.9	4237.0	4245.1	4265.2	4295.5	4319.7	4341.9	4329.8	4343.9
10°	4313.7	4327.8	4335.8	4335.8	4350.0	4384.3	4408.5	4448.8	4438.7	4460.9
12.5°	4501.3	4515.4	4515.4	4507.3	4517.4	4539.6	4547.7	4592.1	4573.9	4610.2
15°	4731.3	4759.5	4737.4	4723.2	4727.3	4749.5	4747.4	4781.7	4763.6	4793.8
17.5°	4985.5	5021.8	4985.5	4983.5	4975.4	4999.6	5001.7	5031.9	4999.6	5021.8
20°	5286.1	5336.6	5306.3	5316.4	5298.2	5308.3	5318.4	5362.8	5312.4	5328.5
22.5°	5709.8	5770.4	5738.1	5776.4	5764.3	5756.2	5754.2	5832.9	5754.2	5760.3
25°	6327.2	6399.9	6343.4	6395.8	6395.8	6422.1	6452.3	6553.2	6422.1	6383.7
27.5°	7239.2	7311.8	7200.9	7233.1	7223.1	7287.6	7255.3	7505.5	7364.3	7301.7
30°	8336.8	8465.9	8256.1	8248.0	8237.9	8340.8	8387.2	8552.7	8409.4	8346.9
32.5°	9523.1	9658.3	9408.1	9335.5	9297.2	9359.7	9321.4	9454.5	9355.7	9258.8
35°	10778.1	10911.2	10673.2	10531.9	10378.6	10247.5	10110.3	10144.6	10051.7	9904.5
37.5°	11964.4	12208.6	11956.4	11805.0	11522.6	11266.3	10883.0	10723.6	10636.8	10501.7
40°	13173.0	13312.2	13120.5	12991.4	12684.7	12283.2	11669.9	11332.9	11215.9	11084.8
42.5°	14062.8	14195.9	14093.0	14004.2	13764.1	13298.1	12505.2	12083.5	11914.0	11766.7
45°	14768.9	14867.8	14803.2	14835.5	14732.6	14280.7	13370.7	12888.5	12713.0	12533.4
47.5°	15053.4	15158.3	15261.2	15452.9	15628.4	15295.5	14300.8	13760.1	13574.5	13390.9
50°	15021.1	15128.1	15426.7	15834.2	16379.0	16268.0	15281.4	14688.2	14516.7	14306.9
52.5°	14762.9	14883.9	15267.3	15945.2	16812.8	16996.4	16280.1	15646.6	15485.2	15235.0
55°	14084.9	14157.6	14732.6	15693.0	16915.7	17504.8	17258.7	16667.5	16506.1	16157.0
57.5°	12828.0	12932.9	13770.2	15013.0	16657.4	17849.8	18118.2	17740.9	17585.5	17083.1
60°	11187.7	11355.1	12313.5	13871.1	15999.7	17847.8	18899.0	18796.1	18666.9	17995.1
62.5°	9331.5	9525.1	10447.2	12257.0	14849.6	17341.4	19387.2	19679.8	19613.2	18836.4
65°	7166.6	7299.7	8217.7	10168.8	13060.0	16253.9	19443.7	20283.1	20295.2	19476.0
67.5°	4771.7	5155.0	5952.0	7630.6	10663.1	14476.4	18947.4	20381.9	20498.9	19695.9
70°	2328.3	2832.7	3613.5	4959.3	7630.6	11750.6	17650.1	19570.8	19831.1	19054.3
72.5°	966.4	1129.9	1555.6	2447.4	4380.2	7929.2	15043.3	17371.6	17853.8	16883.4
75°	651.7	706.2	889.8	1255.0	1995.4	3910.1	10848.7	12953.1	13729.8	12751.3
77.5°	502.4	536.7	647.7	877.7	1186.4	1478.9	5806.7	7806.1	8207.6	7598.3
80°	395.5	421.7	484.2	639.6	841.3	790.9	1979.3	3536.9	3768.9	3161.6
82.5°	343.0	353.1	347.0	433.8	558.9	462.0	649.7	1305.4	1440.6	1045.1
85°	248.2	276.4	288.5	268.3	296.6	234.0	266.3	462.0	508.4	454.0
87.5°	100.9	149.3	183.6	173.5	109.0	66.6	82.7	135.2	155.4	169.5
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4259.2	0°	4259.2	4259.2	4259.2	4259.2	4259.2	4259.2	4259.2	4259.2	4259.2	4259.2
4261.2	2.5°	4263.2	4277.3	4287.4	4299.5	4307.6	4319.7	4343.9	4358.0	4360.1	4370.1
4293.5	5°	4301.5	4321.7	4343.9	4376.2	4412.5	4442.8	4489.2	4521.5	4533.6	4543.7
4372.2	7.5°	4384.3	4412.5	4452.9	4509.4	4561.8	4602.2	4658.7	4697.0	4735.3	4749.5
4497.3	10°	4507.3	4547.7	4606.2	4682.9	4739.4	4791.8	4850.3	4882.6	4921.0	4937.1
4646.6	12.5°	4660.7	4703.1	4779.7	4886.7	4939.1	4975.4	4995.6	4987.5	4995.6	5009.7
4826.1	15°	4836.2	4882.6	4969.4	5084.4	5120.7	5088.4	5044.0	5003.7	4997.6	5001.7
5044.0	17.5°	5044.0	5078.3	5179.2	5276.1	5249.8	5116.7	5019.8	4955.3	4923.0	4912.9
5322.5	20°	5334.6	5334.6	5417.3	5477.8	5302.3	5076.3	4925.0	4820.1	4753.5	4725.2
5701.8	22.5°	5687.6	5655.4	5707.8	5665.5	5292.2	4963.3	4753.5	4571.9	4471.0	4430.7
6232.4	25°	6135.6	6097.2	6083.1	5820.8	5219.6	4783.8	4442.8	4222.9	4134.1	4111.9
6997.1	27.5°	6811.5	6714.6	6531.0	5905.5	5086.4	4501.3	4079.6	3875.8	3825.4	3827.4
7979.7	30°	7711.3	7517.6	7067.7	5919.7	4868.5	4101.8	3708.4	3563.1	3538.9	3549.0
8804.9	32.5°	8544.6	8361.0	7616.5	5855.1	4533.6	3710.4	3375.5	3278.6	3242.3	3254.4
9434.4	35°	9198.3	9147.9	8124.9	5764.3	4122.0	3343.2	3076.9	2994.1	2923.5	2907.4
10027.5	37.5°	9815.7	9795.5	8506.3	5637.2	3714.4	3082.9	2836.8	2727.8	2624.9	2568.4
10683.3	40°	10493.6	10473.4	8756.4	5441.5	3353.3	2856.9	2620.9	2477.6	2350.5	2247.6
11425.7	42.5°	11256.3	11137.2	8875.5	5161.1	3046.6	2665.3	2445.3	2251.7	2084.2	1989.4
12265.1	45°	12089.5	11821.2	8873.5	4803.9	2788.3	2489.7	2257.7	1983.3	1828.0	1739.2
13126.6	47.5°	12973.2	12474.9	8764.5	4408.5	2538.2	2296.0	1967.2	1757.3	1654.4	1600.0
14062.8	50°	13885.2	13086.2	8578.9	3954.5	2281.9	2076.1	1785.6	1642.3	1563.6	1513.2
14990.9	52.5°	14742.7	13641.1	8354.9	3440.0	2021.6	1862.3	1704.9	1593.9	1511.2	1454.7
15890.7	55°	15539.6	14119.2	8038.2	2913.4	1809.8	1719.0	1666.5	1573.7	1478.9	1412.3
16804.7	57.5°	16247.8	14430.0	7491.4	2419.1	1658.5	1620.1	1626.2	1539.4	1430.5	1374.0
17704.5	60°	16837.0	14657.9	6682.3	1961.1	1535.4	1523.3	1563.6	1474.9	1347.8	1283.2
18465.2	62.5°	17190.1	14653.9	5689.7	1606.0	1430.5	1434.5	1480.9	1394.2	1265.0	1204.5
18862.7	65°	17159.8	14294.8	4600.2	1374.0	1329.6	1333.6	1394.2	1305.4	1196.4	1160.1
18662.9	67.5°	16552.5	13419.1	3528.8	1222.7	1218.6	1236.8	1307.4	1244.9	1154.1	1150.0
17472.5	70°	14908.1	11601.3	2542.2	1101.6	1103.6	1129.9	1222.7	1206.5	1131.9	1140.0
14690.2	72.5°	11954.3	8845.2	1706.9	974.5	976.5	1018.9	1142.0	1176.3	1109.7	1216.6
10423.0	75°	7961.5	5516.2	1097.6	839.3	841.3	895.8	1071.4	1117.8	1049.2	1212.6
5423.3	77.5°	3825.4	2479.6	794.9	706.2	706.2	756.6	926.1	1000.7	893.8	942.2
1743.2	80°	1321.5	932.1	625.5	569.0	556.9	591.2	780.8	867.6	770.7	710.2
569.0	82.5°	520.5	484.2	502.4	441.9	401.5	423.7	607.3	716.3	566.9	512.5
320.8	85°	298.6	314.7	355.1	292.6	232.0	260.3	445.9	514.5	427.7	377.3
104.9	87.5°	80.7	111.0	163.4	151.3	104.9	111.0	211.8	284.5	246.1	189.7
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

180°
4259.2
4368.1
4541.6
4751.5
4945.2
5013.8
5015.8
4927.0
4719.2
4424.6
4115.9
3833.5
3583.3
3270.5
2919.5
2570.4
2257.7
1995.4
1735.1
1587.9
1495.1
1430.5
1386.1
1337.7
1255.0
1186.4
1158.1
1156.1
1137.9
1232.8
1222.7
863.5
665.8
510.5
385.4
195.7
0.0

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