

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: P956421

Luminaire Tested: **GALN-SB9A-827-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956421  
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-SB9A-827-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

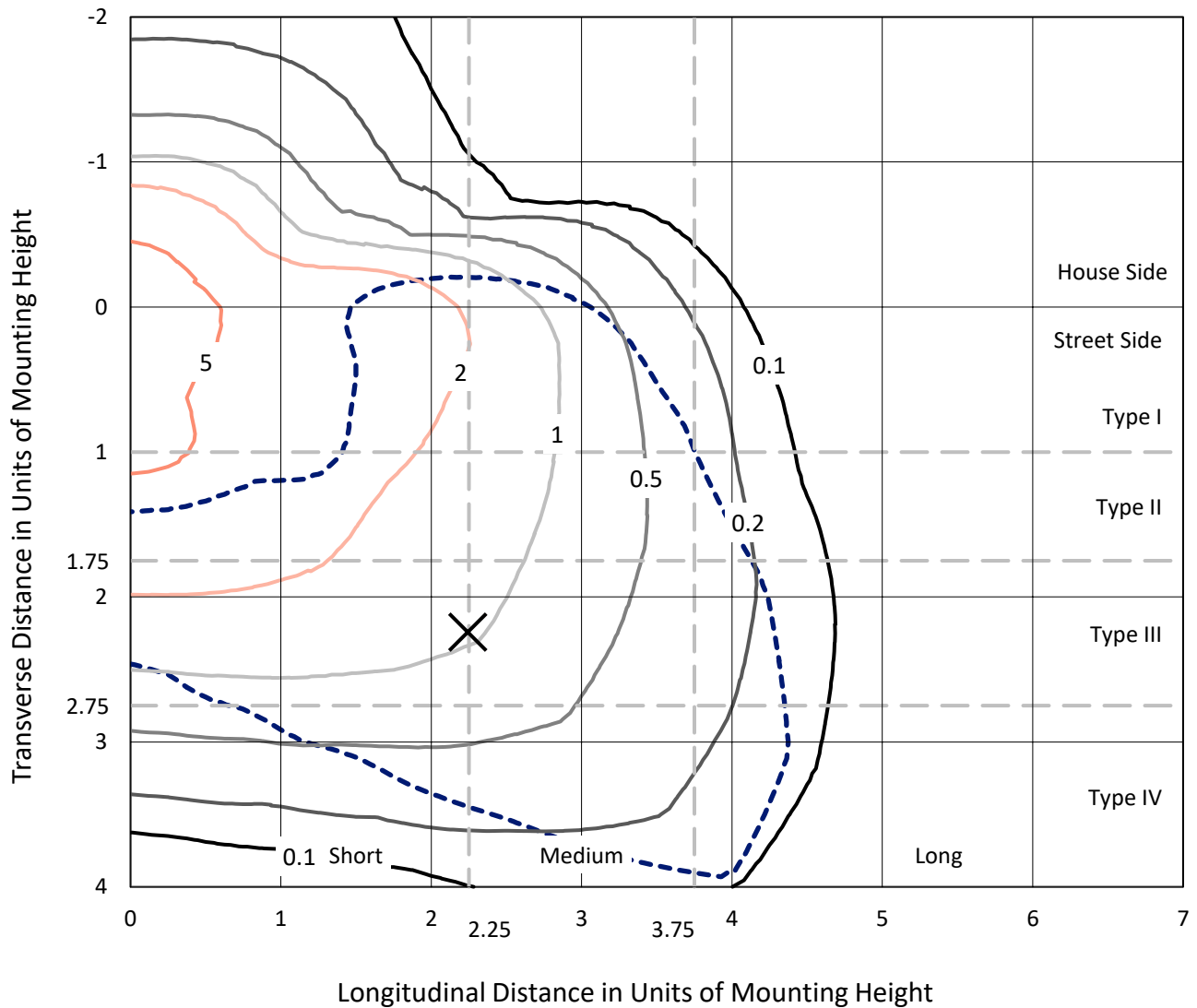
Lumens per Lamp: N/A  
Luminaire Lumens: 35459 lumens  
Efficiency: N/A  
Efficacy: 138.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): 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

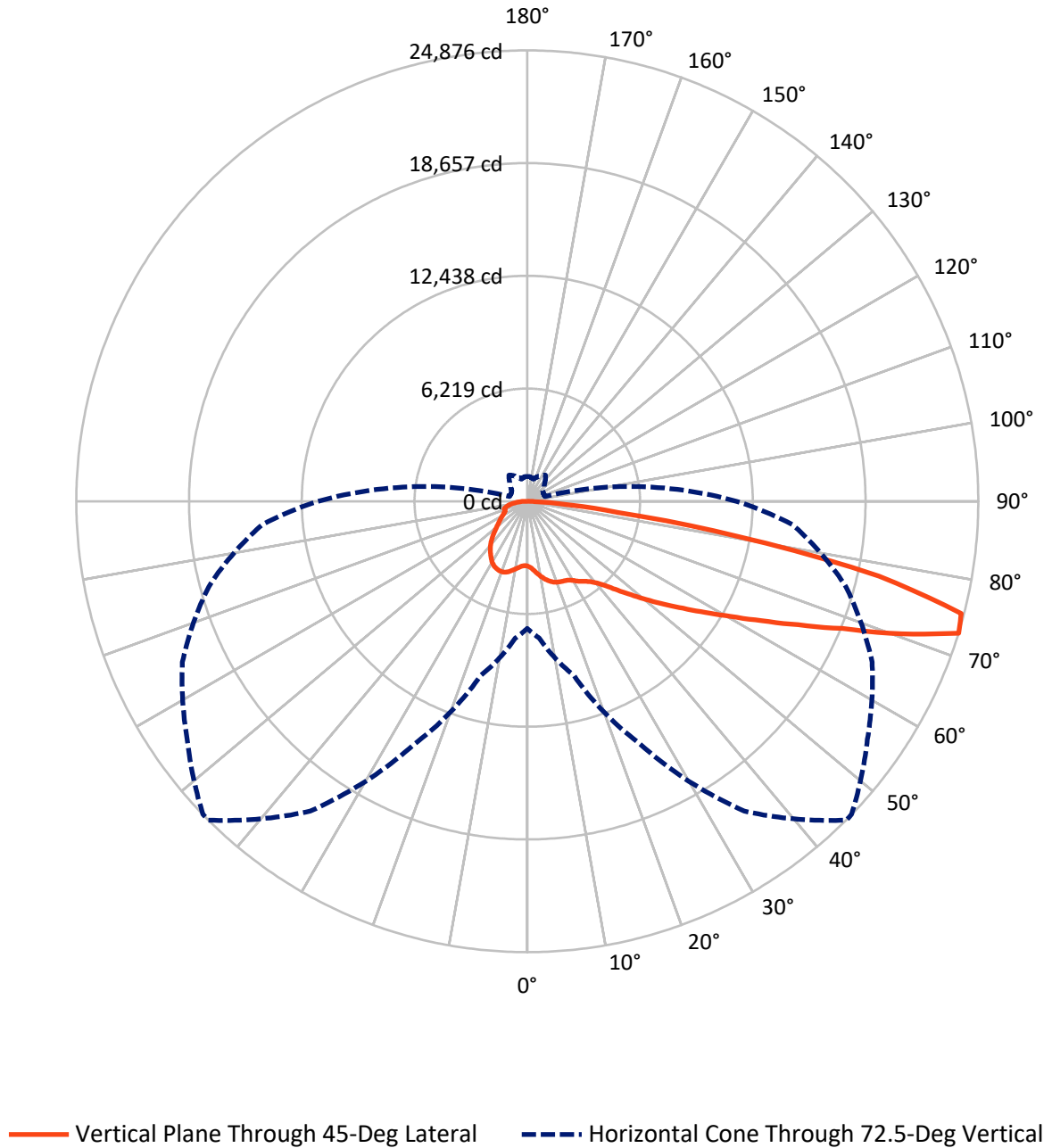
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8016.1	0.0	8016.1
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	27442.9	0.0	27442.9
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	35459.0	0.0	35459.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	364.1	1.0
10°-20°	1213.9	3.4
20°-30°	2111.6	6.0
30°-40°	3027.1	8.5
40°-50°	4262.4	12.0
50°-60°	6528.7	18.4
60°-70°	9457.8	26.7
70°-80°	7552.6	21.3
80°-90°	940.7	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°	35459.0	100.0
0°-180°	35459.0	100.0

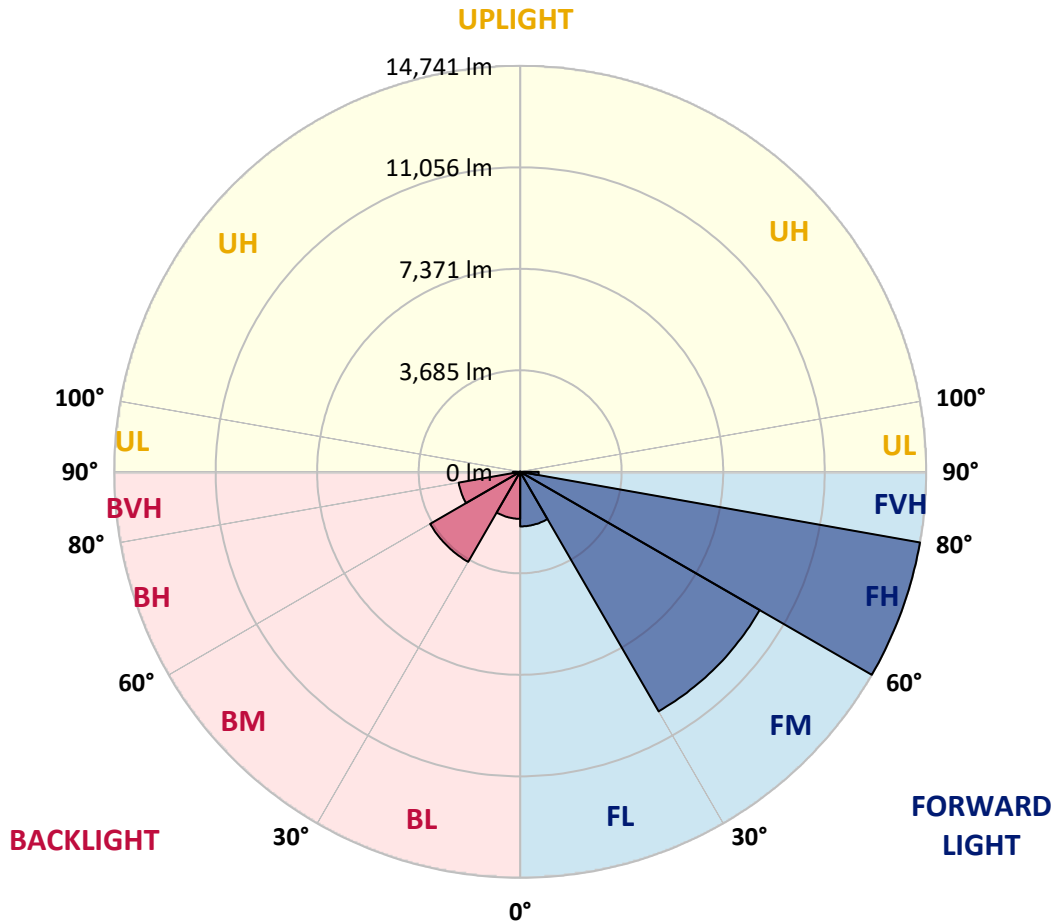


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1982.9	5.6			
FM (30°-60°)	10043.8	28.3			
FH (60°-80°)	14741.3	41.6			G5
FVH (80°-90°)	674.8	1.9			G4/750
BL (0°-30°)	1706.7	4.8	B3/2500		
BM (30°-60°)	3774.4	10.6	B3/5000		
BH (60°-80°)	2269.1	6.4	B3/2500		G3/2500
BVH (80°-90°)	265.8	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3577.1	3577.1	3577.1	3577.1	3577.1	3577.1	3577.1	3577.1	3577.1	3577.1
2.5°	3717.2	3741.5	3719.1	3698.5	3689.2	3664.9	3663.0	3648.1	3638.8	3612.6
5°	3976.9	4008.6	3971.3	3930.2	3892.8	3833.0	3825.6	3782.6	3734.0	3678.0
7.5°	4270.1	4298.2	4255.2	4193.5	4128.2	4029.2	4027.3	3948.8	3872.3	3777.0
10°	4526.0	4563.4	4505.5	4421.4	4339.2	4227.2	4214.1	4124.4	4027.3	3904.0
12.5°	4752.1	4778.2	4722.2	4619.4	4524.2	4412.1	4395.3	4296.3	4187.9	4047.8
15°	4931.4	4965.0	4890.3	4780.1	4679.2	4569.0	4554.1	4464.4	4356.1	4208.5
17.5°	5049.1	5077.1	5000.5	4877.2	4780.1	4688.6	4677.3	4602.6	4507.4	4357.9
20°	5093.9	5123.8	5043.5	4918.3	4828.6	4757.7	4752.1	4697.9	4632.5	4496.2
22.5°	5138.7	5166.7	5062.1	4931.4	4852.9	4808.1	4806.2	4770.7	4744.6	4632.5
25°	5319.9	5327.4	5187.3	4998.6	4886.6	4847.3	4845.5	4843.6	4854.8	4767.0
27.5°	5476.8	5475.0	5355.4	5178.0	5004.2	4922.0	4920.2	4938.9	4974.3	4901.5
30°	5706.6	5686.0	5544.1	5359.1	5200.4	5073.4	5062.1	5045.3	5073.4	5015.4
32.5°	6194.1	6128.7	5899.0	5570.2	5362.9	5265.7	5250.8	5146.2	5157.4	5121.9
35°	6892.7	6806.8	6500.5	5970.0	5564.6	5426.4	5418.9	5286.3	5263.9	5232.1
37.5°	7724.0	7617.5	7260.7	6549.0	5912.1	5613.2	5602.0	5482.4	5390.9	5357.3
40°	8558.9	8424.5	8129.3	7255.1	6423.9	5925.1	5889.6	5708.5	5603.8	5547.8
42.5°	9369.6	9257.6	9005.4	8047.1	7055.2	6380.9	6302.5	5992.4	5913.9	5861.6
45°	10086.9	9986.1	9801.1	8893.3	7795.0	7001.1	6924.5	6418.3	6394.0	6394.0
47.5°	10669.7	10647.3	10451.2	9756.3	8667.3	7707.2	7574.5	7010.4	7075.8	7176.7
50°	11316.0	11254.4	11045.2	10606.2	9692.8	8516.0	8407.6	7737.0	7981.7	8258.2
52.5°	11910.0	11943.7	11710.2	11491.6	10850.9	9418.2	9227.7	8594.4	9123.1	9580.7
55°	12520.9	12522.7	12457.4	12427.5	12065.1	10415.7	10206.5	9625.5	10466.1	11034.0
57.5°	13094.3	13098.1	13195.2	13458.6	13473.5	11566.3	11329.1	10892.0	11958.6	12537.7
60°	13606.1	13632.3	13897.5	14514.0	14712.0	12885.1	12661.0	12388.2	13501.5	14084.3
62.5°	13778.0	13873.3	14463.5	15339.6	15935.5	14502.8	14282.3	14119.8	15122.9	15664.6
65°	13486.6	13705.1	14846.5	16021.4	17194.5	16424.9	16206.3	16028.9	16807.8	17317.8
67.5°	12771.2	13053.2	14824.0	16736.8	18722.5	18737.4	18533.8	18117.2	18614.1	18810.2
70°	10886.4	11308.6	13518.3	17003.9	20476.5	21899.8	21703.7	20631.5	20416.7	19467.8
72.5°	7014.1	7582.0	9954.3	14805.4	20866.9	24875.5	24864.3	22901.1	20986.4	18190.1
75°	2559.1	2906.5	4625.0	9293.0	17515.8	24724.2	24797.0	22512.5	19157.7	14050.7
77.5°	932.1	1019.9	1509.3	3571.5	10772.5	19837.6	19988.9	17997.7	13636.0	7051.5
80°	489.4	538.0	773.3	1386.0	4615.7	11781.2	12018.4	10695.9	6408.9	2123.9
82.5°	270.9	293.3	433.4	752.8	2079.0	5037.9	5179.8	4225.3	2254.6	900.4
85°	145.7	155.0	203.6	410.9	1016.2	1746.5	1785.8	1262.7	898.5	528.6
87.5°	43.0	52.3	67.2	130.8	397.9	392.3	401.6	250.3	354.9	267.1
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°
3577.1	0°	3577.1	3577.1	3577.1	3577.1	3577.1	3577.1	3577.1	3577.1	3577.1	3577.1
3605.1	2.5°	3593.9	3588.3	3567.8	3558.4	3547.2	3545.4	3554.7	3556.6	3558.4	3560.3
3646.2	5°	3627.6	3608.9	3590.2	3579.0	3582.7	3584.6	3603.3	3616.3	3625.7	3633.2
3722.8	7.5°	3692.9	3678.0	3646.2	3644.4	3650.0	3666.8	3691.1	3721.0	3737.8	3750.8
3821.8	10°	3790.1	3762.0	3724.7	3730.3	3741.5	3765.8	3816.2	3840.5	3868.5	3892.8
3943.2	12.5°	3889.1	3864.8	3821.8	3825.6	3844.2	3887.2	3935.8	3965.7	3984.3	4003.0
4074.0	15°	4018.0	3975.0	3928.3	3928.3	3961.9	4008.6	4031.0	4055.3	4066.5	4087.1
4214.1	17.5°	4150.6	4094.5	4032.9	4029.2	4070.3	4092.7	4105.8	4109.5	4113.2	4135.6
4350.5	20°	4283.2	4221.6	4133.8	4126.3	4135.6	4131.9	4130.0	4126.3	4131.9	4159.9
4490.6	22.5°	4414.0	4343.0	4221.6	4187.9	4161.8	4126.3	4124.4	4122.6	4126.3	4154.3
4641.9	25°	4567.1	4481.2	4318.7	4217.8	4130.0	4081.5	4087.1	4088.9	4092.7	4115.1
4798.8	27.5°	4733.4	4638.1	4408.4	4208.5	4049.7	4016.1	4006.8	4012.4	4025.4	4060.9
4955.7	30°	4899.6	4787.6	4490.6	4171.1	3948.8	3902.1	3872.3	3885.3	3926.4	3961.9
5092.0	32.5°	5050.9	4938.9	4555.9	4088.9	3820.0	3747.1	3707.9	3724.7	3765.8	3778.9
5243.3	35°	5228.4	5101.4	4583.9	3958.2	3679.9	3567.8	3515.5	3491.2	3511.7	3498.7
5420.8	37.5°	5426.4	5293.8	4580.2	3786.3	3515.5	3386.6	3313.7	3222.2	3179.2	3134.4
5682.3	40°	5719.7	5529.1	4535.4	3579.0	3311.9	3194.2	3063.4	2908.4	2811.3	2723.5
6104.5	42.5°	6119.4	5856.0	4453.2	3351.1	3082.1	2971.9	2794.5	2613.3	2460.1	2314.4
6745.2	45°	6715.3	6283.8	4350.5	3108.3	2833.7	2725.3	2532.9	2329.3	2155.6	1968.8
7654.9	47.5°	7574.5	6859.1	4253.3	2831.8	2572.2	2473.2	2299.4	2110.8	1905.3	1724.1
8969.9	50°	8755.1	7684.7	4163.7	2562.8	2314.4	2239.7	2101.4	1909.0	1701.7	1556.0
10511.0	52.5°	10256.9	8807.4	4126.3	2303.2	2073.4	2045.4	1935.2	1755.9	1559.7	1436.5
12307.9	55°	11981.0	10150.4	4126.3	2054.7	1862.3	1871.7	1795.1	1628.9	1458.9	1348.7
14160.9	57.5°	13740.6	11510.3	4051.6	1825.0	1683.0	1722.2	1673.7	1528.0	1374.8	1260.9
16109.2	60°	15362.0	12649.8	3749.0	1615.8	1524.2	1585.9	1554.1	1429.0	1242.2	1146.9
17738.0	62.5°	16607.9	13292.3	3166.2	1449.5	1393.5	1464.5	1447.7	1298.2	1217.9	1178.7
19075.5	65°	17231.8	13187.7	2420.9	1302.0	1283.3	1393.5	1358.0	1352.4	1288.9	1244.1
19510.7	67.5°	16848.9	12287.4	1755.9	1193.6	1219.8	1328.1	1464.5	1486.9	1369.2	1281.4
18285.4	70°	15169.6	10658.5	1307.6	1090.9	1139.4	1330.0	1669.9	1556.0	1343.1	1240.3
14665.3	72.5°	11540.2	7948.1	1014.3	982.5	1034.8	1339.3	1761.5	1524.2	1268.3	1371.1
9136.1	75°	6599.5	4363.5	814.4	849.9	904.1	1251.5	1714.8	1442.1	1210.4	1259.0
3620.1	77.5°	2516.1	1677.4	672.5	719.2	726.6	1092.8	1640.1	1436.5	1152.5	1124.5
1085.3	80°	872.3	655.7	556.6	571.6	562.3	971.3	1572.8	1249.7	943.3	844.3
448.3	82.5°	356.8	326.9	440.8	422.2	399.7	754.7	1270.2	1021.8	771.5	681.8
216.7	85°	155.0	207.3	291.4	255.9	231.6	523.0	1018.0	864.9	651.9	562.3
71.0	87.5°	31.8	78.5	123.3	115.8	119.5	349.3	722.9	614.6	461.4	345.6
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°  
3577.1  
3567.8  
3636.9  
3754.6  
3887.2  
4010.5  
4094.5  
4143.1  
4171.1  
4173.0  
4145.0  
4096.4  
4001.1  
3825.6  
3539.8  
3162.4  
2729.1  
2301.3  
1946.4  
1703.6  
1546.7  
1427.1  
1337.5  
1242.2  
1132.0  
1165.6  
1229.1  
1266.5  
1223.5  
**1359.9**  
1259.0  
1025.5  
816.3  
674.3  
560.4  
270.9  
0.0

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