

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: P956442

Luminaire Tested: **GALN-SB9A-830-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956442
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-830-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36641 lumens
Efficiency: N/A
Efficacy: 143.4 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

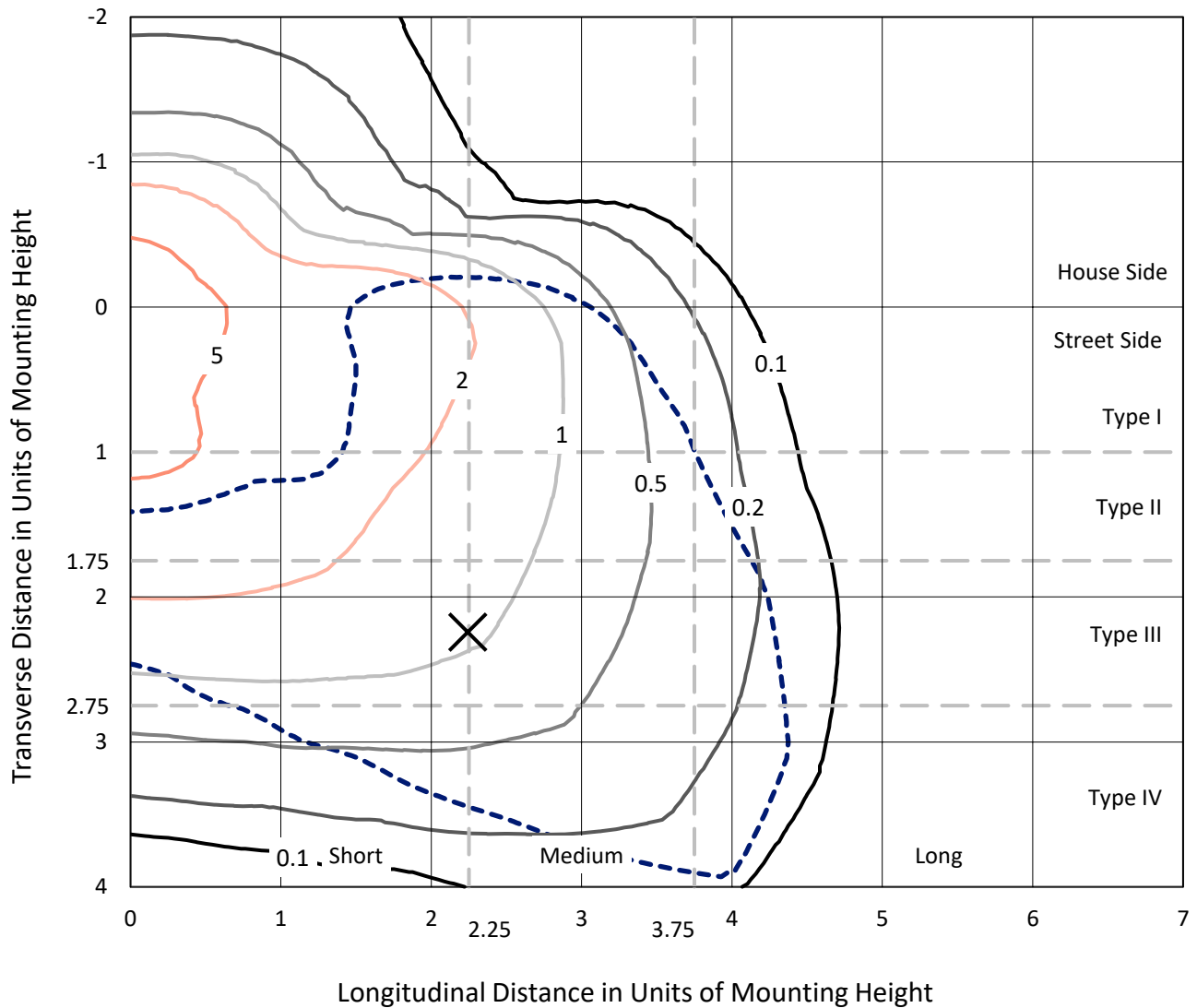
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

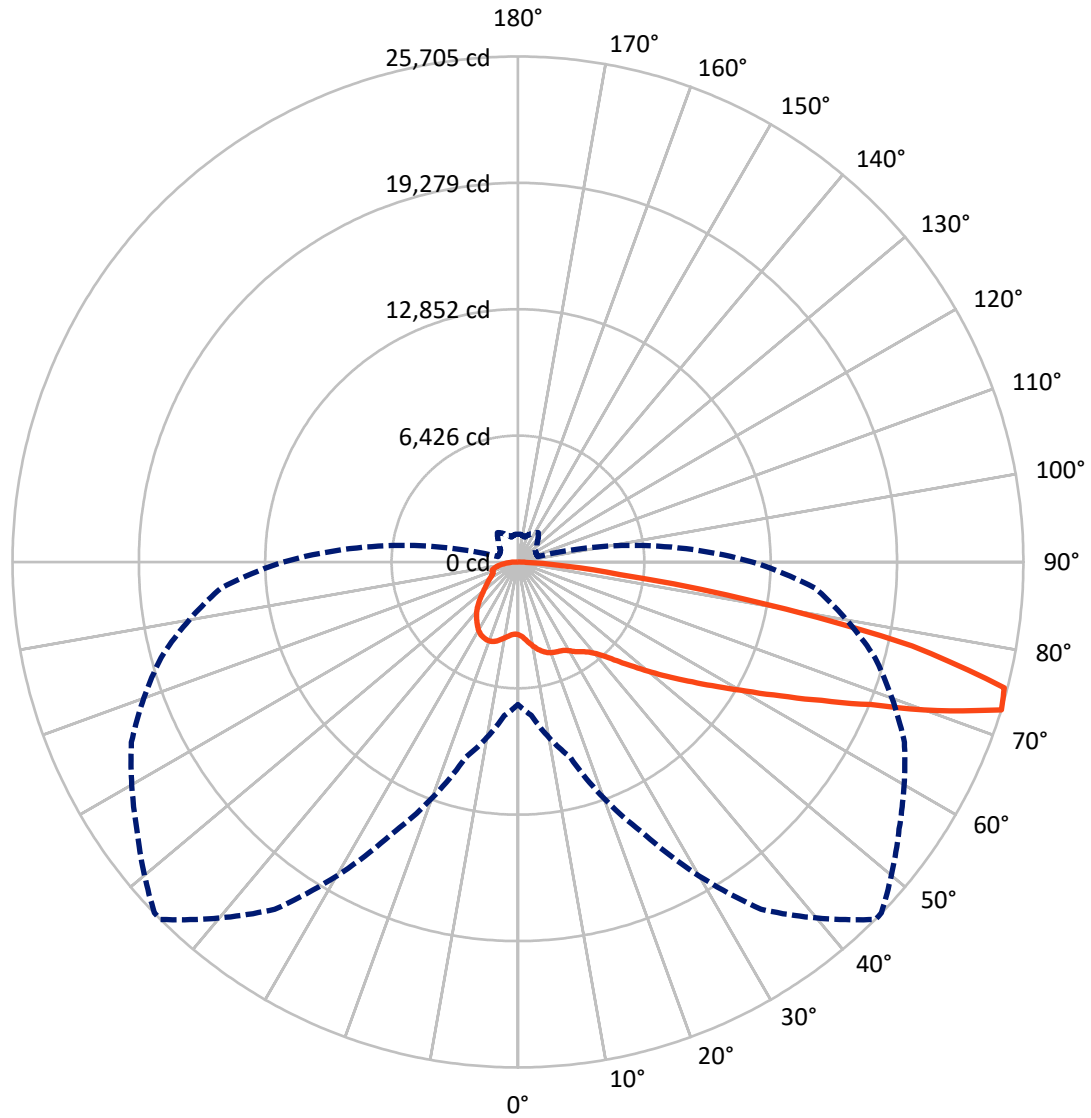
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8283.3	0.0	8283.3
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	28357.7	0.0	28357.7
	% Fixture	77.4	0.0	77.4
Total	Lumens	36641.0	0.0	36641.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.2	1.0
10°-20°	1254.4	3.4
20°-30°	2182.0	6.0
30°-40°	3128.0	8.5
40°-50°	4404.5	12.0
50°-60°	6746.4	18.4
60°-70°	9773.1	26.7
70°-80°	7804.4	21.3
80°-90°	972.0	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°	36641.0	100.0
0°-180°	36641.0	100.0



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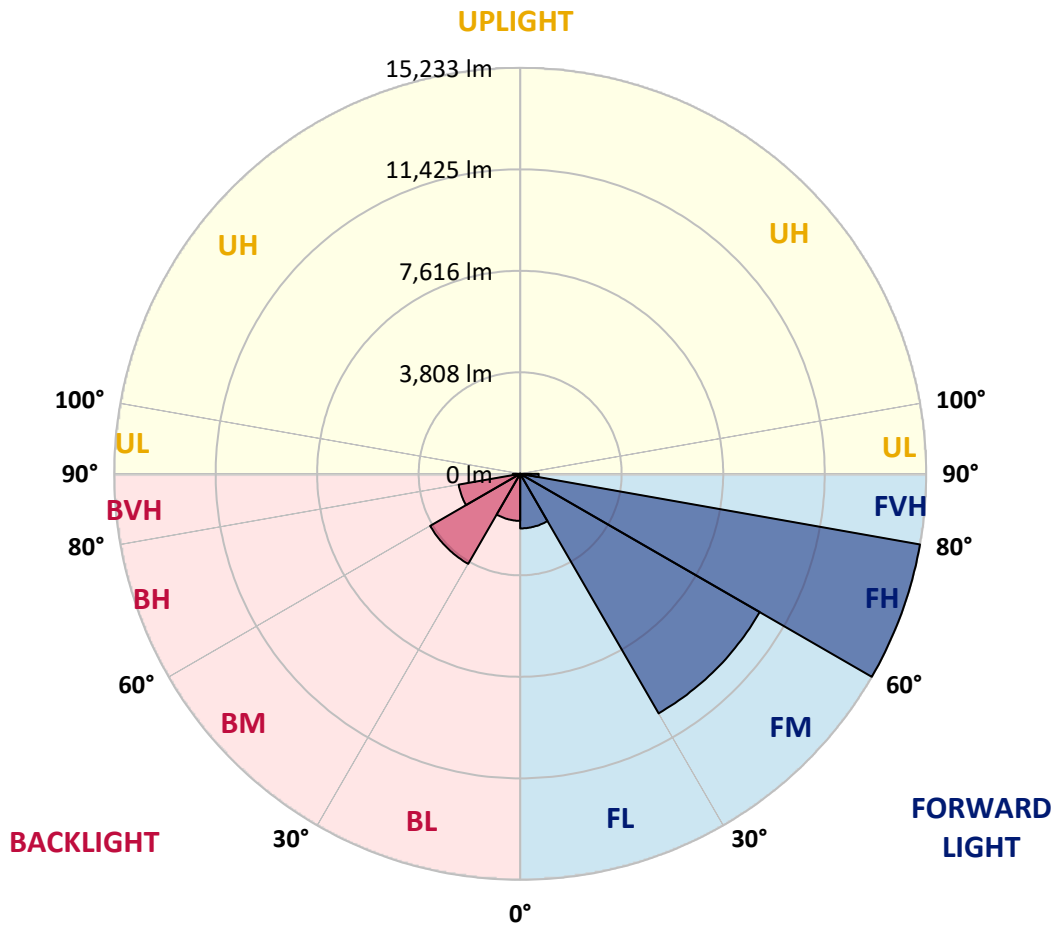
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2049.0	5.6			
FM (30°-60°)	10378.6	28.3			
FH (60°-80°)	15232.7	41.6			G5
FVH (80°-90°)	697.3	1.9			G4/750
BL (0°-30°)	1763.6	4.8	B3/2500		
BM (30°-60°)	3900.2	10.6	B3/5000		
BH (60°-80°)	2344.8	6.4	B3/2500		G3/2500
BVH (80°-90°)	274.7	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°	3696.4	3696.4	3696.4	3696.4	3696.4	3696.4	3696.4	3696.4	3696.4	3696.4
2.5°	3841.1	3866.2	3843.1	3821.8	3812.2	3787.1	3785.2	3769.7	3760.1	3733.0
5°	4109.4	4142.2	4103.6	4061.2	4022.6	3960.8	3953.1	3908.7	3858.5	3800.6
7.5°	4412.5	4441.4	4397.0	4333.3	4265.8	4163.5	4161.5	4080.5	4001.3	3902.9
10°	4676.9	4715.5	4655.7	4568.8	4483.9	4368.1	4354.6	4261.9	4161.5	4034.2
12.5°	4910.5	4937.5	4879.6	4773.4	4675.0	4559.2	4541.8	4439.5	4327.5	4182.8
15°	5095.8	5130.5	5053.3	4939.4	4835.2	4721.3	4705.9	4613.2	4501.3	4348.8
17.5°	5217.4	5246.3	5167.2	5039.8	4939.4	4844.8	4833.3	4756.1	4657.6	4503.2
20°	5263.7	5294.6	5211.6	5082.3	4989.6	4916.3	4910.5	4854.5	4786.9	4646.0
22.5°	5310.0	5339.0	5230.9	5095.8	5014.7	4968.4	4966.4	4929.8	4902.7	4786.9
25°	5497.3	5505.0	5360.2	5165.3	5049.4	5008.9	5007.0	5005.1	5016.6	4925.9
27.5°	5659.4	5657.5	5533.9	5350.6	5171.0	5086.1	5084.2	5103.5	5140.2	5064.9
30°	5896.8	5875.6	5728.9	5537.8	5373.7	5242.5	5230.9	5213.5	5242.5	5182.6
32.5°	6400.6	6333.0	6095.6	5755.9	5541.7	5441.3	5425.8	5317.7	5329.3	5292.7
35°	7122.5	7033.7	6717.2	6169.0	5750.1	5607.3	5599.6	5462.5	5439.3	5406.5
37.5°	7981.4	7871.4	7502.7	6767.3	6109.1	5800.3	5788.7	5665.2	5570.6	5535.9
40°	8844.2	8705.3	8400.3	7497.0	6638.0	6122.6	6086.0	5898.7	5790.6	5732.7
42.5°	9682.0	9566.2	9305.6	8315.4	7290.4	6593.6	6512.5	6192.1	6111.1	6057.0
45°	10423.2	10318.9	10127.8	9189.8	8054.8	7234.4	7155.3	6632.2	6607.1	6607.1
47.5°	11025.4	11002.2	10799.6	10081.5	8956.2	7964.1	7827.0	7244.1	7311.7	7415.9
50°	11693.2	11629.6	11413.4	10959.8	10015.9	8799.9	8687.9	7995.0	8247.8	8533.5
52.5°	12307.1	12341.8	12100.5	11874.7	11212.6	9732.1	9535.3	8880.9	9427.2	9900.1
55°	12938.2	12940.2	12872.6	12841.7	12467.3	10762.9	10546.7	9946.4	10815.0	11401.8
57.5°	13530.8	13534.7	13635.0	13907.2	13922.6	11951.9	11706.8	11255.1	12357.2	12955.6
60°	14059.7	14086.7	14360.8	14997.8	15202.4	13314.6	13083.0	12801.2	13951.6	14553.8
62.5°	14237.3	14335.7	14945.7	15850.9	16466.7	14986.2	14758.4	14590.5	15627.0	16186.8
65°	13936.2	14162.0	15341.4	16555.5	17767.6	16972.4	16746.6	16563.2	17368.1	17895.0
67.5°	13196.9	13488.3	15318.2	17294.7	19346.6	19362.0	19151.6	18721.2	19234.6	19437.3
70°	11249.3	11685.5	13969.0	17570.8	21159.0	22629.9	22427.2	21319.2	21097.3	20116.7
72.5°	7248.0	7834.7	10286.1	15298.9	21562.4	25704.7	25693.1	23664.4	21686.0	18796.4
75°	2644.4	3003.4	4779.2	9602.8	18099.6	25548.3	25623.6	23263.0	19796.3	14519.1
77.5°	963.2	1053.9	1559.6	3690.6	11131.6	20498.9	20655.2	18597.6	14090.6	7286.6
80°	505.7	555.9	799.1	1432.2	4769.6	12173.9	12419.0	11052.4	6622.6	2194.7
82.5°	279.9	303.0	447.8	777.9	2148.3	5205.8	5352.5	4366.1	2329.8	930.4
85°	150.6	160.2	210.4	424.6	1050.0	1804.8	1845.3	1304.8	928.4	546.3
87.5°	44.4	54.0	69.5	135.1	411.1	405.3	415.0	258.6	366.7	276.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3696.4	0°	3696.4	3696.4	3696.4	3696.4	3696.4	3696.4	3696.4	3696.4	3696.4	3696.4
3725.3	2.5°	3713.7	3707.9	3686.7	3677.1	3665.5	3663.6	3673.2	3675.1	3677.1	3679.0
3767.8	5°	3748.5	3729.2	3709.9	3698.3	3702.2	3704.1	3723.4	3736.9	3746.5	3754.3
3846.9	7.5°	3816.0	3800.6	3767.8	3765.9	3771.6	3789.0	3814.1	3845.0	3862.4	3875.9
3949.2	10°	3916.4	3887.5	3848.9	3854.6	3866.2	3891.3	3943.4	3968.5	3997.5	4022.6
4074.7	12.5°	4018.7	3993.6	3949.2	3953.1	3972.4	4016.8	4067.0	4097.8	4117.2	4136.5
4209.8	15°	4151.9	4107.5	4059.2	4059.2	4094.0	4142.2	4165.4	4190.5	4202.1	4223.3
4354.6	17.5°	4288.9	4231.0	4167.3	4163.5	4205.9	4229.1	4242.6	4246.5	4250.3	4273.5
4495.5	20°	4426.0	4362.3	4271.6	4263.8	4273.5	4269.6	4267.7	4263.8	4269.6	4298.6
4640.2	22.5°	4561.1	4487.8	4362.3	4327.5	4300.5	4263.8	4261.9	4260.0	4263.8	4292.8
4796.6	25°	4719.4	4630.6	4462.7	4358.4	4267.7	4217.5	4223.3	4225.2	4229.1	4252.3
4958.7	27.5°	4891.2	4792.7	4555.3	4348.8	4184.7	4150.0	4140.3	4146.1	4159.6	4196.3
5120.9	30°	5063.0	4947.1	4640.2	4310.2	4080.5	4032.2	4001.3	4014.8	4057.3	4094.0
5261.8	32.5°	5219.3	5103.5	4707.8	4225.2	3947.3	3872.0	3831.5	3848.9	3891.3	3904.8
5418.1	35°	5402.7	5271.4	4736.8	4090.1	3802.5	3686.7	3632.7	3607.6	3628.8	3615.3
5601.5	37.5°	5607.3	5470.2	4732.9	3912.5	3632.7	3499.5	3424.2	3329.6	3285.2	3238.9
5871.7	40°	5910.3	5713.4	4686.6	3698.3	3422.3	3300.7	3165.6	3005.3	2905.0	2814.3
6307.9	42.5°	6323.4	6051.2	4601.6	3462.8	3184.9	3071.0	2887.6	2700.4	2542.1	2391.5
6970.0	45°	6939.1	6493.2	4495.5	3211.9	2928.1	2816.2	2617.4	2407.0	2227.5	2034.4
7910.0	47.5°	7827.0	7087.8	4395.1	2926.2	2657.9	2555.6	2376.1	2181.1	1968.8	1781.6
9268.9	50°	9046.9	7940.9	4302.5	2648.3	2391.5	2314.3	2171.5	1972.7	1758.4	1607.9
10861.3	52.5°	10598.8	9101.0	4263.8	2380.0	2142.5	2113.6	1999.7	1814.4	1611.7	1484.3
12718.2	55°	12380.4	10488.8	4263.8	2123.2	1924.4	1934.1	1854.9	1683.1	1507.5	1393.6
14633.0	57.5°	14198.7	11894.0	4186.6	1885.8	1739.1	1779.7	1729.5	1578.9	1420.6	1302.9
16646.2	60°	15874.1	13071.4	3873.9	1669.6	1575.1	1638.8	1605.9	1476.6	1283.6	1185.2
18329.3	62.5°	17161.6	13735.4	3271.7	1497.8	1439.9	1513.3	1495.9	1341.5	1258.5	1218.0
19711.4	65°	17806.2	13627.3	2501.6	1345.4	1326.1	1439.9	1403.3	1397.5	1331.8	1285.5
20161.1	67.5°	17410.5	12697.0	1814.4	1233.4	1260.4	1372.4	1513.3	1536.5	1414.8	1324.1
18894.9	70°	15675.3	11013.8	1351.2	1127.2	1177.4	1374.3	1725.6	1607.9	1387.8	1281.7
15154.1	72.5°	11924.9	8213.1	1048.1	1015.3	1069.3	1384.0	1820.2	1575.1	1310.6	1416.8
9440.7	75°	6819.5	4509.0	841.6	878.2	934.2	1293.2	1771.9	1490.1	1250.8	1301.0
3740.8	77.5°	2600.0	1733.3	694.9	743.1	750.9	1129.2	1694.7	1484.3	1190.9	1162.0
1121.5	80°	901.4	677.5	575.2	590.6	581.0	1003.7	1625.2	1291.3	974.8	872.5
463.3	82.5°	368.7	337.8	455.5	436.2	413.1	779.8	1312.5	1055.8	797.2	704.5
223.9	85°	160.2	214.3	301.1	264.4	239.3	540.5	1052.0	893.7	673.6	581.0
73.3	87.5°	32.8	81.1	127.4	119.7	123.5	361.0	747.0	635.0	476.8	357.1
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>
3696.4
3686.7
3758.1
3879.7
4016.8
4144.2
4231.0
4281.2
4310.2
4312.1
4283.1
4233.0
4134.5
3953.1
3657.8
3267.9
2820.0
2378.0
2011.3
1760.4
1598.2
1474.7
1382.0
1283.6
1169.7
1204.5
1270.1
1308.7
1264.3
1405.2
1301.0
1059.7
843.5
696.8
579.1
279.9
0.0

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