

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: P956879

Luminaire Tested: **GALN-SB9B-927-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956879
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9B-927-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31638 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

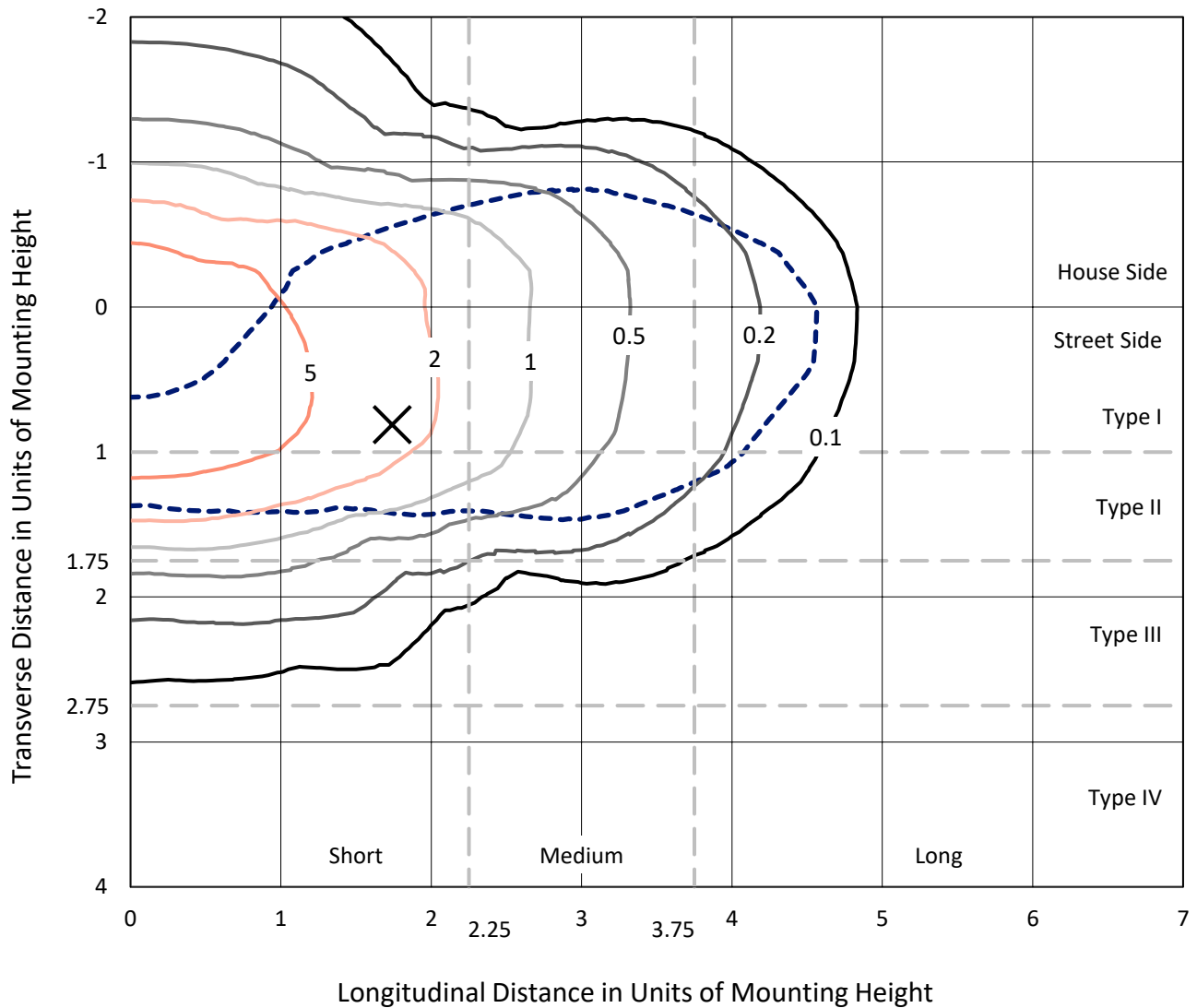
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

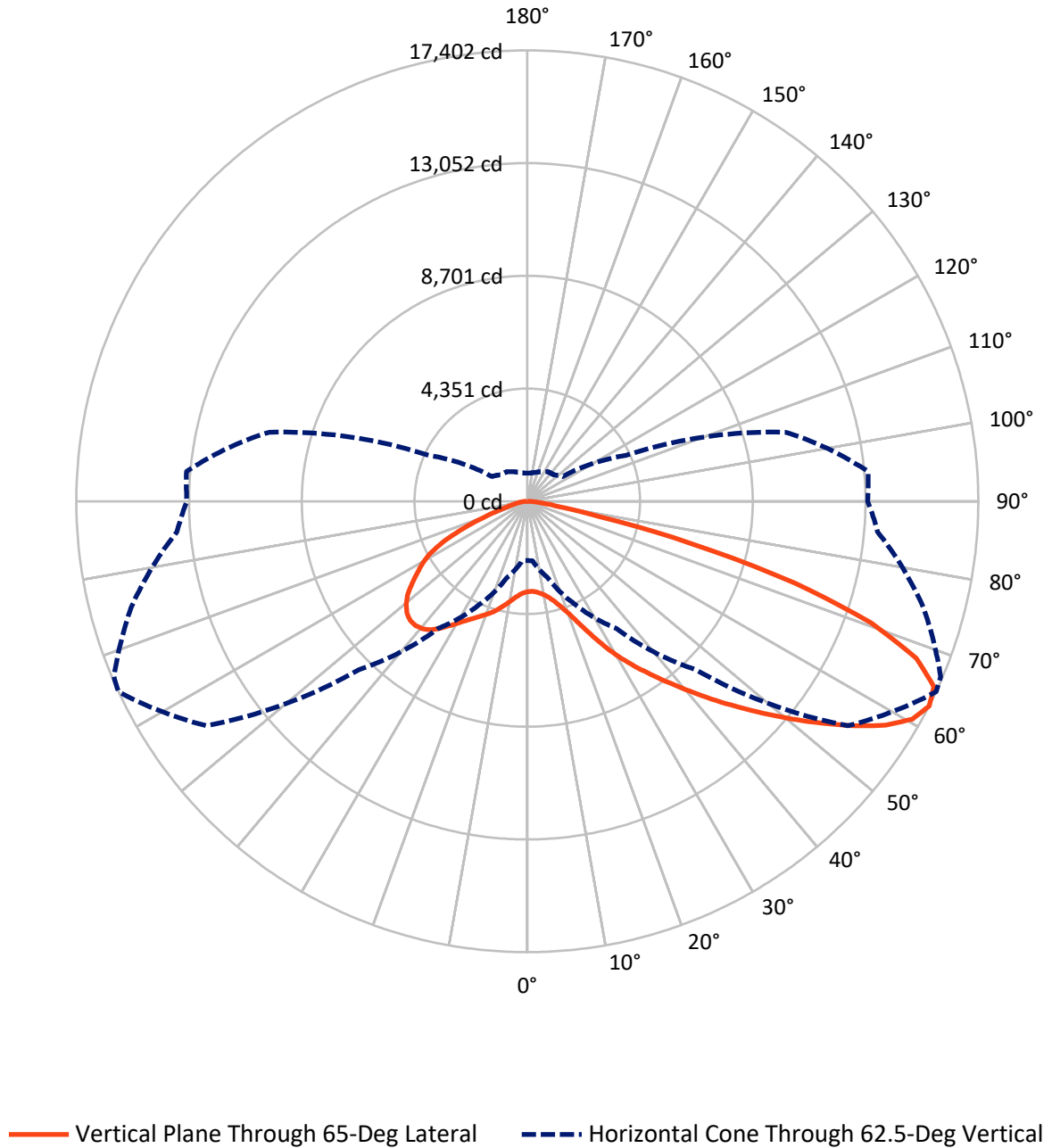
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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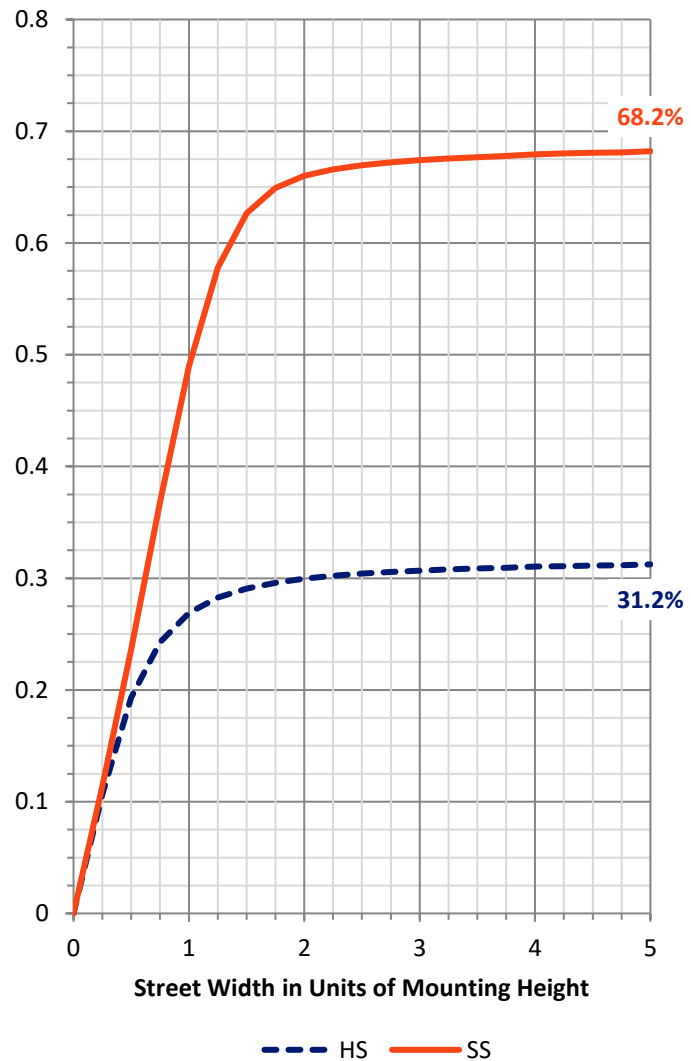
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9983.6	0.0	9983.6
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	21654.4	0.0	21654.4
	% Fixture	68.4	0.0	68.4
Total	Lumens	31638.0	0.0	31638.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.6	1.1
10°-20°	1178.7	3.7
20°-30°	2389.9	7.6
30°-40°	4135.7	13.1
40°-50°	6258.7	19.8
50°-60°	7337.9	23.2
60°-70°	6151.9	19.4
70°-80°	3396.4	10.7
80°-90°	441.2	1.4
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°	31638.0	100.0
0°-180°	31638.0	100.0

Coefficient of Utilization



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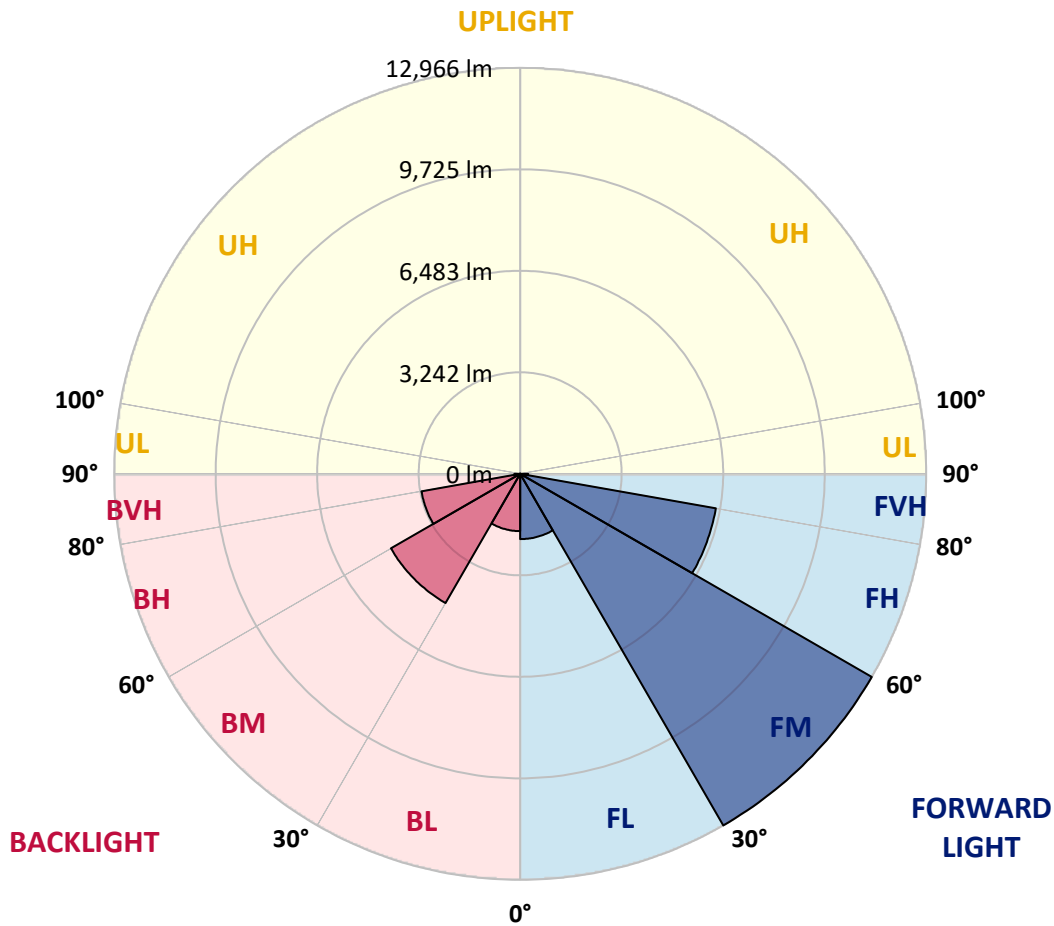
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2085.4	6.6			
FM (30°-60°)	12966.3	41.0			
FH (60°-80°)	6345.7	20.1			G3/7500
FVH (80°-90°)	257.1	0.8			G3/500
BL (0°-30°)	1830.9	5.8	B3/2500		
BM (30°-60°)	4766.0	15.1	B3/5000		
BH (60°-80°)	3202.6	10.1	B4/5000		G4/5000
BVH (80°-90°)	184.0	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	3486.4	3486.4	3486.4	3486.4	3486.4	3486.4	3486.4	3486.4	3486.4	3486.4
2.5°	3463.4	3453.5	3461.7	3461.7	3465.0	3463.4	3474.9	3478.2	3483.1	3492.9
5°	3428.9	3427.3	3442.1	3455.2	3468.3	3479.8	3494.6	3515.9	3519.2	3530.7
7.5°	3417.4	3407.6	3430.6	3447.0	3478.2	3506.1	3545.5	3581.6	3596.3	3601.3
10°	3506.1	3489.7	3511.0	3520.8	3547.1	3575.0	3621.0	3678.4	3694.8	3714.5
12.5°	3657.1	3639.0	3670.2	3685.0	3709.6	3734.2	3765.4	3821.2	3829.4	3865.5
15°	3863.9	3842.6	3862.3	3880.3	3921.3	3944.3	3975.5	4029.7	4029.7	4057.6
17.5°	4144.6	4116.7	4131.4	4138.0	4164.3	4198.7	4251.3	4298.9	4323.5	4313.6
20°	4563.1	4528.7	4528.7	4495.8	4486.0	4513.9	4582.8	4648.5	4674.8	4623.9
22.5°	5191.8	5142.6	5114.7	5003.0	4958.7	4962.0	5030.9	5111.4	5132.7	5042.4
25°	5991.2	5914.0	5876.3	5712.1	5612.0	5525.0	5579.2	5682.6	5712.1	5600.5
27.5°	6790.5	6795.5	6759.4	6562.4	6396.6	6237.4	6209.5	6317.8	6349.0	6222.6
30°	7911.6	7795.1	7726.2	7489.8	7253.4	7030.2	6915.3	6959.6	6967.8	6816.8
32.5°	8878.4	8848.9	8701.2	8494.3	8190.7	7841.1	7649.0	7578.4	7565.3	7350.3
35°	9979.8	9963.4	9807.5	9561.3	9233.0	8747.1	8400.8	8198.9	8182.5	7880.4
37.5°	11099.3	11099.3	10946.6	10677.4	10337.6	9730.3	9203.4	8883.4	8830.8	8436.9
40°	11992.2	11938.0	11965.9	11852.7	11463.7	10818.6	10094.7	9630.2	9559.6	9086.9
42.5°	12499.4	12481.3	12648.8	12775.2	12615.9	12100.5	11076.3	10439.4	10340.9	9802.5
45°	12612.7	12593.0	12891.7	13354.6	13577.8	13366.1	12143.2	11291.3	11171.5	10551.0
47.5°	12351.7	12312.3	12750.5	13481.0	14196.6	14569.2	13298.8	12215.4	12041.4	11279.8
50°	11567.1	11529.3	12192.4	13162.5	14405.1	15386.6	14552.8	13195.4	12929.4	12061.1
52.5°	9861.6	9879.7	10918.7	12251.5	14131.0	15895.5	15632.9	14227.8	13907.7	12860.5
55°	7681.8	7721.2	8998.2	10465.7	13034.5	15818.3	16369.9	15291.4	14973.0	13612.3
57.5°	5500.4	5674.4	6871.0	8323.6	10928.6	14595.5	16530.7	16302.6	15994.0	14433.0
60°	3565.2	3596.3	4827.4	6291.6	8322.0	12422.2	16204.1	17069.1	16827.8	15270.1
62.5°	2284.9	2306.2	3056.3	4400.6	5989.5	9190.3	15104.3	17402.3	17328.4	15823.3
65°	1679.2	1662.8	2053.4	2908.6	4034.6	5667.8	12968.8	17241.4	17387.5	16169.6
67.5°	1401.8	1378.8	1570.8	2014.0	2972.6	3218.8	9595.7	16195.9	16731.0	16130.2
70°	1277.0	1257.3	1373.9	1495.3	2319.3	2155.2	4837.3	14080.1	14904.1	15682.1
72.5°	1081.7	1047.2	1206.4	1327.9	1803.9	1652.9	1999.2	10815.3	11819.8	14245.9
75°	838.8	815.8	952.0	1168.7	1355.8	1290.2	1263.9	6567.3	7663.8	11017.2
77.5°	664.8	633.6	758.3	911.0	1219.6	973.4	920.8	2828.2	3914.8	7033.5
80°	500.6	472.7	576.1	720.6	937.2	733.7	595.8	1153.9	1475.6	3563.5
82.5°	356.2	331.6	402.1	528.5	630.3	658.2	366.0	646.7	727.1	1373.9
85°	228.2	213.4	269.2	331.6	400.5	423.5	223.2	338.1	371.0	566.3
87.5°	124.7	101.8	144.4	154.3	185.5	169.1	106.7	123.1	133.0	205.2
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°
3486.4	0°	3486.4	3486.4	3486.4	3486.4	3486.4	3486.4	3486.4	3486.4	3486.4	3486.4
3492.9	2.5°	3499.5	3504.4	3520.8	3525.8	3537.3	3552.0	3561.9	3571.7	3571.7	3581.6
3545.5	5°	3547.1	3558.6	3593.1	3611.1	3640.7	3670.2	3688.3	3709.6	3722.7	3729.3
3629.2	7.5°	3639.0	3657.1	3706.3	3737.5	3788.4	3829.4	3857.3	3886.9	3893.4	3911.5
3745.7	10°	3763.8	3785.1	3840.9	3900.0	3960.7	4011.6	4037.9	4059.2	4067.4	4070.7
3895.1	12.5°	3906.6	3937.8	4010.0	4082.2	4146.2	4190.5	4197.1	4192.2	4169.2	4149.5
4078.9	15°	4082.2	4110.1	4190.5	4269.3	4331.7	4339.9	4298.9	4272.6	4244.7	4239.8
4284.1	17.5°	4292.3	4307.1	4380.9	4458.1	4463.0	4435.1	4374.4	4349.8	4323.5	4305.4
4551.7	20°	4536.9	4532.0	4584.5	4617.3	4582.8	4497.5	4405.6	4364.5	4338.3	4316.9
4879.9	22.5°	4829.0	4791.3	4784.7	4776.5	4684.6	4505.7	4380.9	4328.4	4287.4	4257.8
5337.9	25°	5254.2	5109.7	5009.6	4953.8	4747.0	4461.4	4302.2	4185.6	4108.5	4057.6
5897.6	27.5°	5786.0	5543.1	5290.3	5154.1	4747.0	4371.1	4111.8	3923.0	3796.6	3744.1
6439.3	30°	6293.2	6038.8	5666.2	5395.3	4735.5	4223.4	3804.8	3542.2	3394.5	3341.9
6902.2	32.5°	6726.5	6449.1	6065.0	5659.6	4707.6	3983.7	3424.0	3133.5	2990.7	2928.3
7360.1	35°	7128.7	6833.2	6465.5	5950.1	4633.7	3632.5	3005.4	2783.8	2624.6	2524.5
7826.3	37.5°	7540.7	7189.4	6844.7	6212.8	4500.8	3222.1	2683.7	2495.0	2307.8	2173.2
8322.0	40°	7988.8	7568.6	7250.1	6368.7	4282.5	2831.4	2434.2	2261.9	2063.3	1920.5
8893.2	42.5°	8512.4	8023.2	7701.5	6449.1	3983.7	2554.0	2271.7	2102.7	1915.5	1799.0
9505.4	45°	9059.0	8523.9	8113.5	6447.5	3650.5	2424.4	2219.2	2051.8	1845.0	1723.5
10134.1	47.5°	9631.8	9047.5	8469.7	6342.4	3361.6	2442.4	2189.7	1941.8	1713.6	1595.5
10769.3	50°	10206.3	9620.3	8814.4	6145.5	3238.5	2403.0	2079.7	1787.5	1518.3	1411.6
11365.2	52.5°	10775.9	10229.3	9111.5	5864.8	3113.8	2256.9	1938.5	1587.3	1437.9	1364.0
11980.7	55°	11348.8	10831.7	9434.9	5456.1	2801.9	2086.2	1702.1	1511.7	1373.9	1306.6
12583.1	57.5°	11923.3	11527.7	9741.8	5047.4	2409.6	1876.1	1572.5	1419.8	1309.9	1252.4
13087.0	60°	12520.7	12323.8	10058.6	4671.5	2022.2	1606.9	1477.3	1346.0	1234.3	1170.3
13571.2	62.5°	13136.3	13200.3	10306.5	4187.3	1666.0	1442.8	1391.9	1257.3	1149.0	1088.3
13971.7	65°	13756.7	14045.6	10469.0	3515.9	1350.9	1286.9	1300.0	1160.5	1050.5	998.0
14265.6	67.5°	14224.5	14654.6	10423.0	2660.7	1108.0	1139.1	1185.1	1058.7	955.3	914.3
14218.0	70°	14277.0	14582.4	9970.0	1822.0	927.4	994.7	1057.1	958.6	851.9	822.4
13548.3	72.5°	13577.8	13597.5	8707.7	1190.0	784.6	873.2	922.5	856.8	753.4	723.9
11852.7	75°	11744.3	11245.4	6393.3	784.6	656.6	750.1	796.1	750.1	650.0	656.6
8868.6	77.5°	8898.1	7964.2	3882.0	558.1	548.2	630.3	692.7	659.8	574.5	645.1
4459.7	80°	4584.5	4308.7	1731.7	416.9	433.3	503.9	569.6	526.9	454.7	433.3
996.3	82.5°	1050.5	1221.2	682.8	298.7	313.5	362.8	435.0	395.6	326.6	275.8
415.3	85°	367.7	402.1	302.0	187.1	183.8	226.5	295.5	264.3	221.6	177.3
175.6	87.5°	116.5	152.7	113.3	75.5	78.8	101.8	136.2	124.7	103.4	67.3
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>
3486.4
3581.6
3732.6
3904.9
4062.5
4149.5
4239.8
4307.1
4318.6
4267.7
4077.3
3770.3
3373.1
2959.5
2557.3
2209.3
1948.4
1822.0
1743.2
1611.9
1418.2
1364.0
1300.0
1242.6
1165.4
1086.6
996.3
915.9
824.0
722.2
633.6
567.9
395.6
272.5
187.1
70.6
0.0

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