

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: P943122

Luminaire Tested: **GALN-SB7B-950-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943122
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7B-950-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27615 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

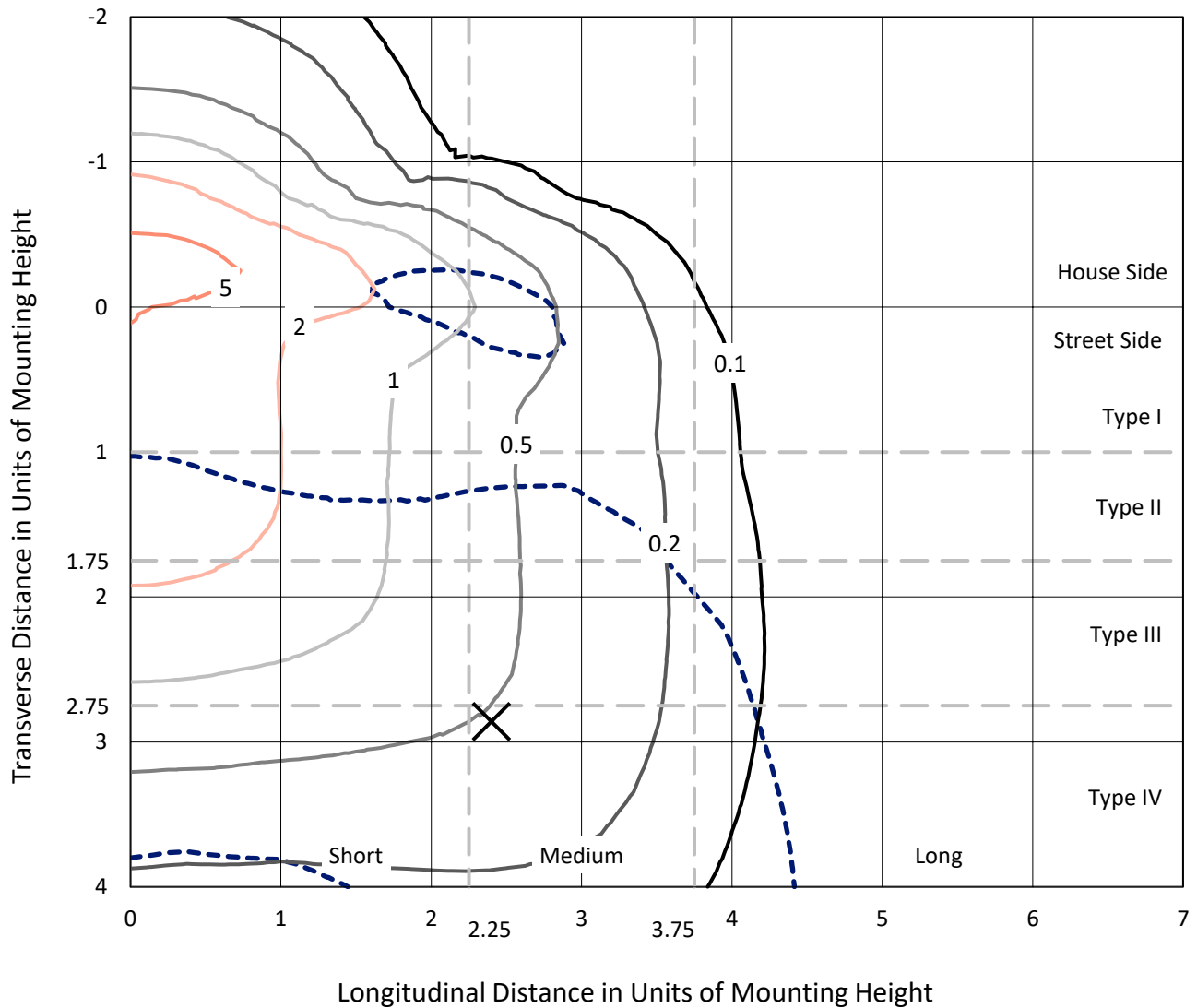
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P943122
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Iso-Footcandle Lines of Horizontal Illumination

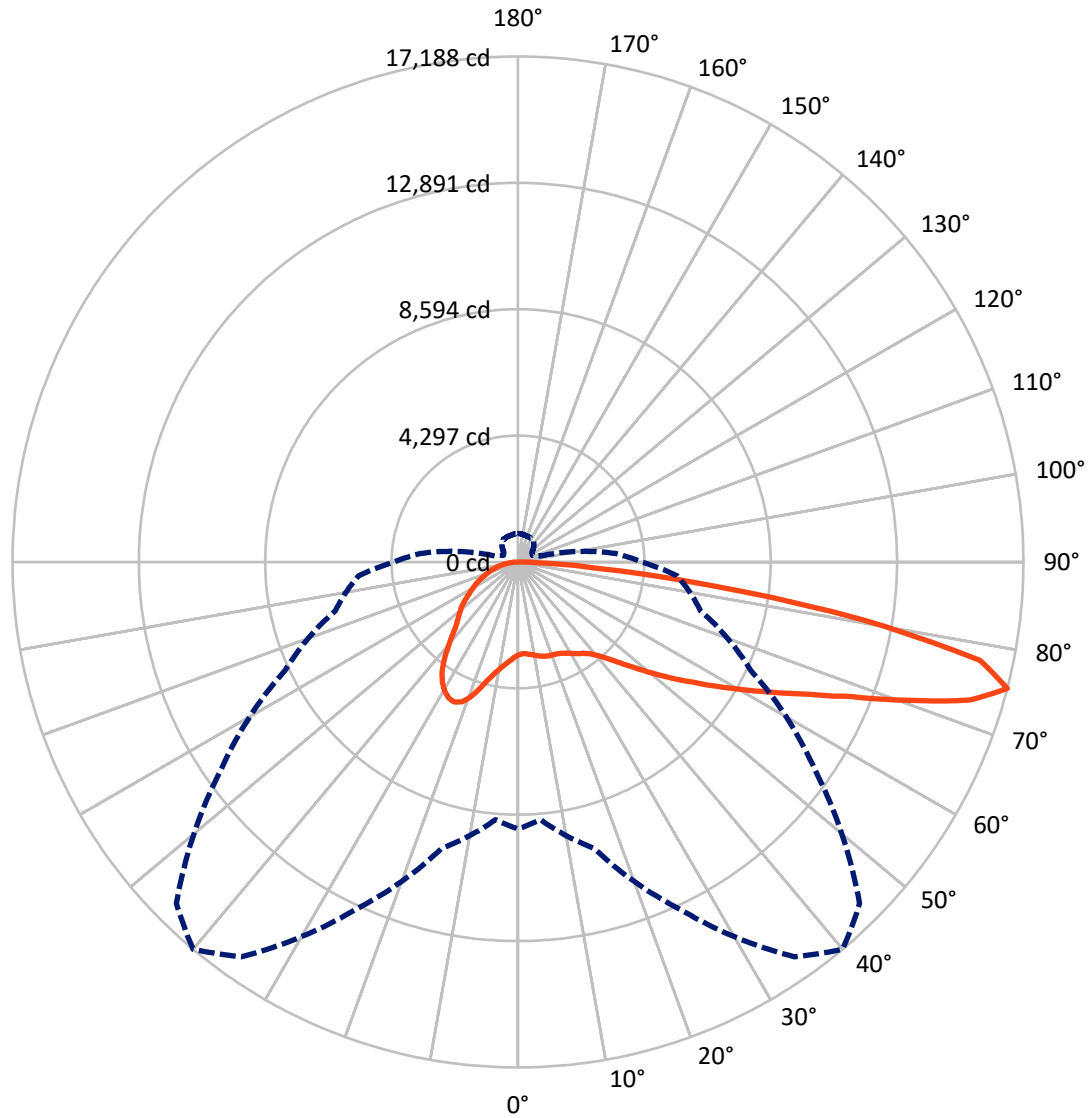
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Medium - N/A

REPORT NUMBER: P943122
CATALOG NUMBER: GALN-SB7B-950-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P943122

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8556.0	0.0	8556.0
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	19059.0	0.0	19059.0
	% Fixture	69.0	0.0	69.0
Total	Lumens	27615.0	0.0	27615.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.2	1.1
10°-20°	1058.3	3.8
20°-30°	1932.4	7.0
30°-40°	2740.6	9.9
40°-50°	3700.7	13.4
50°-60°	4978.4	18.0
60°-70°	6318.8	22.9
70°-80°	5734.7	20.8
80°-90°	835.9	3.0
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°	27615.0	100.0
0°-180°	27615.0	100.0

Coefficient of Utilization



REPORT NUMBER: P943122

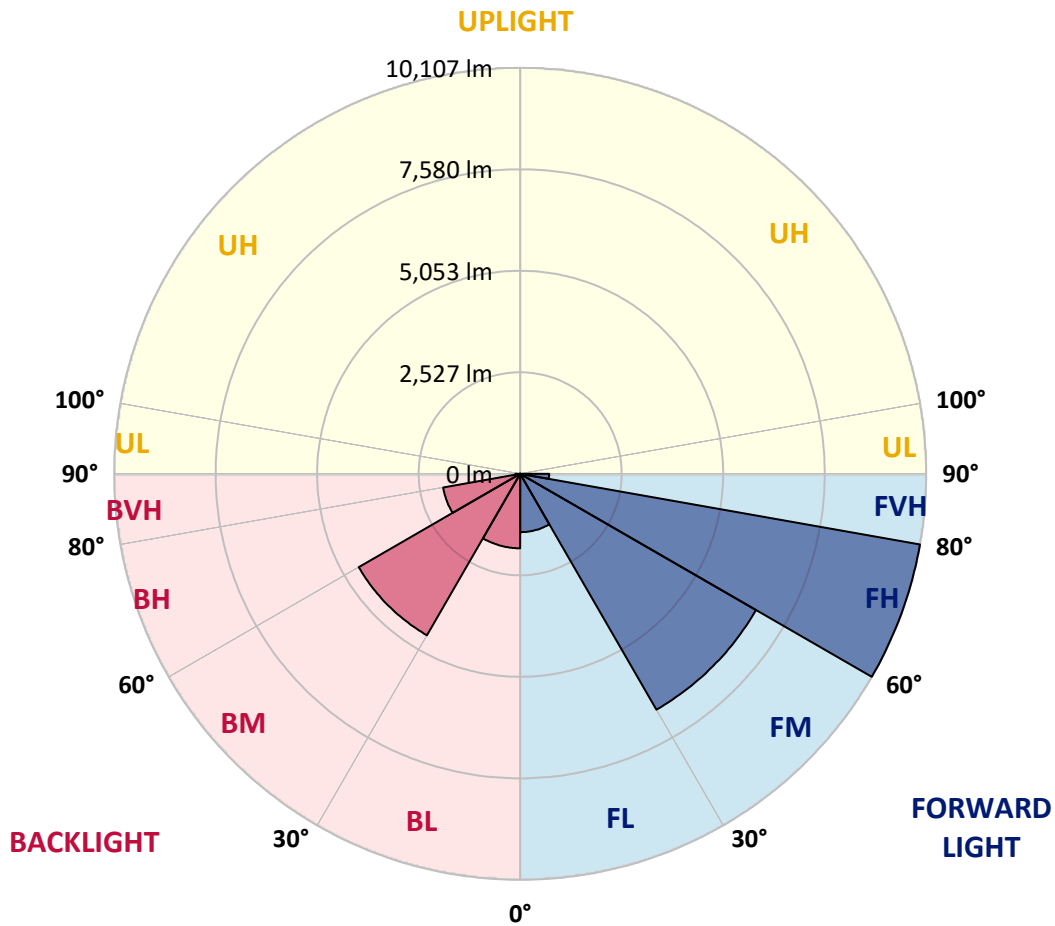
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1452.6	5.3			
FM (30°-60°)	6778.9	24.5			
FH (60°-80°)	10106.7	36.6			G4/12000
FVH (80°-90°)	720.8	2.6			G4/750
BL (0°-30°)	1853.3	6.7	B3/2500		
BM (30°-60°)	4640.9	16.8	B3/5000		
BH (60°-80°)	1946.8	7.0	B3/2500		G3/2500
BVH (80°-90°)	115.1	0.4			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 IV Medium



REPORT NUMBER: P943122

CATALOG NUMBER: GALN-SB7B-950-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	3157.8	3157.8	3157.8	3157.8	3157.8	3157.8	3157.8	3157.8	3157.8	3157.8
2.5°	3109.5	3127.1	3122.7	3116.8	3116.8	3118.3	3116.8	3127.1	3137.3	3147.6
5°	3141.7	3159.3	3150.5	3143.2	3137.3	3135.8	3131.4	3130.0	3135.8	3149.0
7.5°	3204.7	3222.3	3209.1	3195.9	3184.2	3178.3	3172.5	3163.7	3159.3	3166.6
10°	3275.0	3292.6	3276.4	3253.0	3234.0	3226.7	3220.8	3212.0	3206.1	3210.5
12.5°	3345.3	3362.9	3340.9	3308.7	3283.8	3279.4	3272.1	3269.1	3267.7	3266.2
15°	3411.2	3425.8	3398.0	3359.9	3333.6	3326.2	3318.9	3323.3	3330.6	3339.4
17.5°	3462.5	3477.1	3436.1	3386.3	3361.4	3358.5	3354.1	3368.7	3389.2	3411.2
20°	3509.3	3524.0	3471.2	3403.9	3374.6	3374.6	3376.0	3406.8	3436.1	3468.3
22.5°	3575.2	3587.0	3522.5	3430.2	3387.8	3390.7	3402.4	3433.2	3469.8	3513.7
25°	3673.4	3682.2	3603.1	3480.0	3431.7	3440.5	3450.7	3465.4	3500.5	3551.8
27.5°	3831.6	3838.9	3734.9	3567.9	3494.7	3509.3	3524.0	3513.7	3529.8	3573.8
30°	4054.2	4058.6	3926.8	3705.6	3601.6	3608.9	3611.9	3569.4	3538.6	3573.8
32.5°	4317.8	4316.4	4159.6	3872.6	3723.2	3715.8	3690.9	3607.5	3535.7	3566.5
35°	4726.5	4710.4	4508.2	4106.9	3860.8	3815.4	3756.9	3649.9	3550.3	3559.1
37.5°	5403.1	5353.3	5073.6	4490.7	4065.9	3950.2	3863.8	3718.8	3582.6	3556.2
40°	6166.2	6103.2	5795.7	5016.5	4373.5	4187.5	4048.3	3816.9	3635.3	3569.4
42.5°	7071.4	6982.0	6651.0	5636.0	4763.1	4493.6	4284.1	3941.4	3712.9	3611.9
45°	8183.1	8064.4	7595.7	6334.7	5253.7	4894.9	4615.2	4130.3	3831.6	3693.9
47.5°	9306.5	9335.8	8669.3	7134.4	5842.5	5390.0	5029.7	4414.5	4004.4	3825.7
50°	10500.2	10520.7	9737.1	8020.5	6510.4	5949.5	5495.4	4732.3	4244.6	4013.2
52.5°	11431.7	11434.6	10706.7	8947.6	7206.1	6564.6	5997.8	5095.6	4522.9	4262.2
55°	12014.6	12007.3	11386.3	9825.0	8005.8	7210.5	6554.4	5508.6	4862.7	4555.1
57.5°	12437.9	12415.9	11855.0	10579.3	8858.3	7973.6	7184.2	5977.3	5264.0	4903.7
60°	12599.0	12585.8	12172.8	11231.0	9754.7	8817.3	7910.6	6501.6	5719.5	5315.3
62.5°	12660.5	12685.4	12484.8	11862.3	10714.0	9751.7	8708.9	7128.5	6232.1	5781.0
65°	12877.3	12922.7	12881.7	12688.4	11797.9	10845.8	9767.8	7874.0	6791.6	6280.5
67.5°	13306.5	13351.9	13369.4	13677.0	13121.9	12209.4	11089.0	8802.6	7446.3	6799.0
70°	13296.2	13283.0	13593.5	14463.5	14779.9	14097.4	12870.0	9945.1	8227.0	7229.6
72.5°	12102.5	11997.0	12730.8	14454.8	16159.6	16068.8	15045.0	11418.5	8900.8	7282.3
75°	9079.4	8798.2	10094.5	13026.7	16389.6	17187.8	16427.7	12332.5	8741.1	6434.3
77.5°	3882.8	3600.1	5127.8	9643.3	14668.6	16067.3	15159.3	10759.4	6977.7	4254.8
80°	1016.5	1015.0	1549.6	4372.0	9975.8	11865.2	10409.4	6948.4	3986.8	1520.3
82.5°	420.4	410.1	569.8	1700.5	4874.4	6658.4	5433.9	3099.2	1439.8	411.6
85°	156.7	155.3	276.8	587.3	1719.5	2746.2	1987.5	792.4	358.8	200.7
87.5°	43.9	42.5	60.1	203.6	418.9	635.7	339.8	130.4	101.1	79.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P943122
 CATALOG NUMBER: GALN-SB7B-950-U-SL4

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3157.8	0°	3157.8	3157.8	3157.8	3157.8	3157.8	3157.8	3157.8	3157.8	3157.8	3157.8
3163.7	2.5°	3168.1	3175.4	3188.6	3198.8	3212.0	3226.7	3247.2	3260.3	3273.5	3282.3
3171.0	5°	3181.2	3197.4	3231.0	3264.7	3304.3	3340.9	3383.4	3414.1	3439.0	3446.4
3197.4	7.5°	3210.5	3236.9	3294.0	3351.1	3414.1	3474.2	3535.7	3588.4	3630.9	3647.0
3244.2	10°	3261.8	3297.0	3377.5	3458.1	3541.6	3633.8	3712.9	3789.1	3849.1	3874.0
3299.9	12.5°	3326.2	3370.2	3475.6	3587.0	3702.7	3830.1	3932.6	4026.4	4101.1	4134.7
3377.5	15°	3409.7	3466.9	3601.6	3751.0	3920.9	4098.1	4228.5	4332.5	4416.0	4457.0
3458.1	17.5°	3500.5	3576.7	3746.6	3972.2	4215.3	4448.2	4600.5	4676.7	4763.1	4802.6
3532.8	20°	3588.4	3682.2	3925.3	4253.4	4577.1	4824.6	4947.6	4968.1	4974.0	4978.4
3603.1	22.5°	3679.2	3805.2	4149.4	4607.8	4955.0	5126.3	5143.9	5056.0	4933.0	4875.9
3671.9	25°	3778.8	3945.8	4442.3	4998.9	5280.1	5300.6	5165.9	4952.0	4719.1	4612.2
3727.6	27.5°	3875.5	4108.4	4793.8	5372.4	5514.5	5334.3	5044.3	4741.1	4459.9	4347.1
3767.1	30°	3972.2	4294.4	5182.0	5699.0	5621.4	5250.8	4852.4	4514.1	4231.4	4112.8
3802.3	32.5°	4070.3	4511.2	5628.7	5934.8	5602.3	5073.6	4613.7	4259.2	4010.2	3885.7
3833.0	35°	4181.6	4777.7	6052.0	6063.7	5474.9	4812.9	4298.8	3954.6	3737.8	3638.2
3869.6	37.5°	4326.6	5116.1	6425.5	6095.9	5252.3	4430.6	3907.7	3594.3	3415.6	3370.2
3923.8	40°	4506.8	5523.2	6711.1	6044.7	4922.7	3966.3	3480.0	3229.6	3128.5	3138.8
3997.1	42.5°	4741.1	5978.8	6911.7	5912.8	4464.3	3487.4	3105.1	2993.8	3042.1	3083.1
4106.9	45°	5045.8	6451.8	7036.2	5688.7	3945.8	3081.6	2883.9	2910.3	2946.9	2951.3
4284.1	47.5°	5435.4	6930.8	7118.3	5350.4	3417.1	2796.0	2743.3	2749.2	2741.8	2711.1
4549.2	50°	5921.6	7396.5	7191.5	4902.2	2967.4	2617.4	2547.0	2526.5	2425.5	2325.9
4902.2	52.5°	6475.3	7824.2	7222.3	4345.7	2617.4	2468.0	2353.7	2224.8	2035.9	2005.1
5346.0	55°	7090.4	8219.7	7143.2	3661.7	2323.0	2276.1	2103.3	1948.0	1927.5	1901.1
5930.4	57.5°	7825.7	8645.9	6982.0	2898.6	2021.2	2052.0	1883.6	1901.1	1864.5	1823.5
6681.8	60°	8629.8	9086.8	6699.4	2202.9	1709.3	1772.2	1826.4	1825.0	1814.7	1781.0
7474.2	62.5°	9353.3	9376.8	6142.8	1687.3	1435.4	1555.5	1703.4	1701.9	1693.1	1674.1
8301.7	65°	9783.9	9332.8	5214.2	1328.4	1209.8	1376.8	1536.4	1548.1	1549.6	1548.1
8924.2	67.5°	9707.8	8818.7	3939.9	1057.5	1023.8	1195.2	1370.9	1387.0	1398.8	1401.7
9003.3	70°	8846.6	7689.5	2569.0	843.6	858.3	1035.5	1214.2	1230.3	1240.6	1252.3
7812.5	72.5°	6895.6	5653.6	1470.5	682.5	713.3	897.8	1059.0	1078.0	1083.9	1105.8
5436.8	75°	4202.1	3324.8	793.8	537.5	585.9	767.5	905.2	927.1	937.4	963.7
2670.1	77.5°	1997.8	1439.8	452.6	418.9	471.6	626.9	764.6	789.5	761.6	776.3
736.7	80°	675.2	534.6	285.6	319.3	360.3	489.2	612.2	637.1	578.5	575.6
244.6	82.5°	235.8	216.8	181.6	212.4	232.9	350.1	462.8	495.1	430.6	429.1
109.8	85°	92.3	87.9	101.1	115.7	139.1	215.3	304.6	320.8	265.1	213.8
32.2	87.5°	19.0	20.5	24.9	26.4	42.5	74.7	109.8	134.7	106.9	90.8
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>
3157.8
3276.4
3449.3
3648.5
3875.5
4134.7
4454.0
4801.2
4990.1
4892.0
4628.3
4360.3
4126.0
3901.9
3660.2
3402.4
3173.9
3121.2
2980.6
2734.5
2339.1
2015.4
1905.5
1816.2
1769.3
1666.8
1548.1
1404.6
1258.1
1114.6
966.7
764.6
569.8
408.6
210.9
83.5
0.0

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