

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: P944312

Luminaire Tested: **GALN-SB9A-950-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944312
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-SB9A-950-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28175 lumens
Efficiency: N/A
Efficacy: 110.3 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

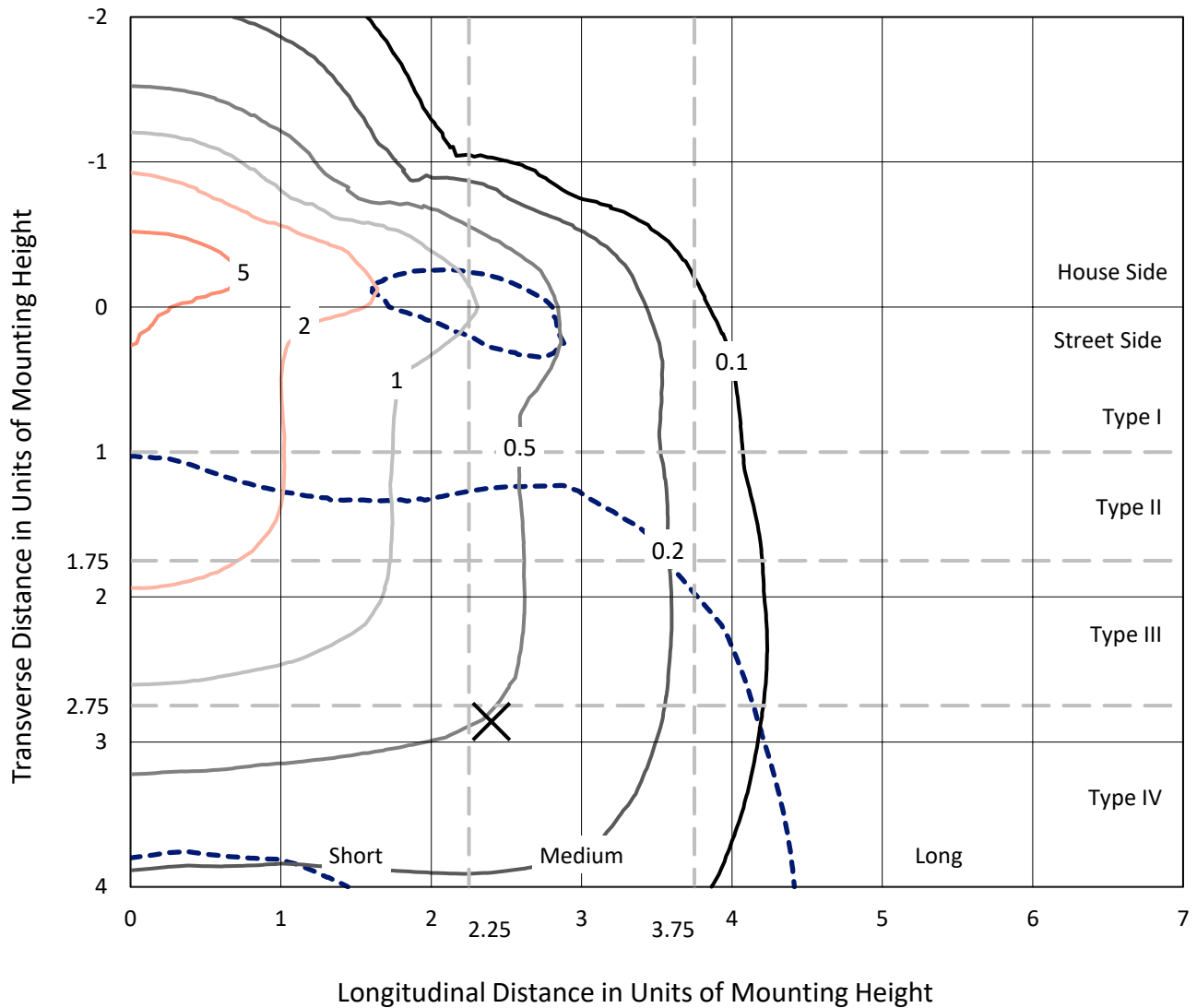
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

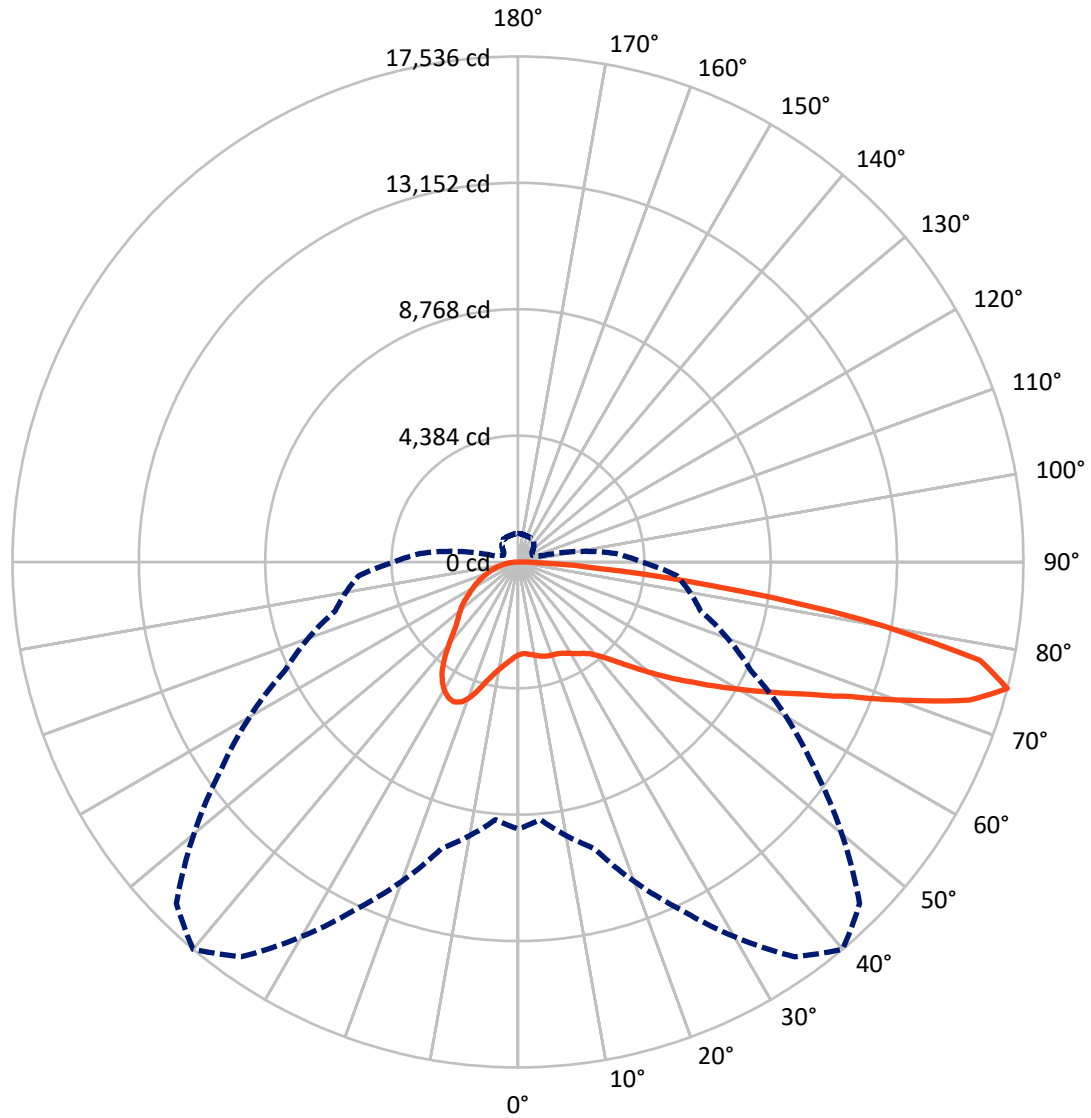
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8729.6	0.0	8729.6
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	19445.5	0.0	19445.5
	% Fixture	69.0	0.0	69.0
Total	Lumens	28175.0	0.0	28175.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.6	1.1
10°-20°	1079.8	3.8
20°-30°	1971.6	7.0
30°-40°	2796.2	9.9
40°-50°	3775.7	13.4
50°-60°	5079.4	18.0
60°-70°	6446.9	22.9
70°-80°	5851.0	20.8
80°-90°	852.9	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°	28175.0	100.0
0°-180°	28175.0	100.0

Coefficient of Utilization



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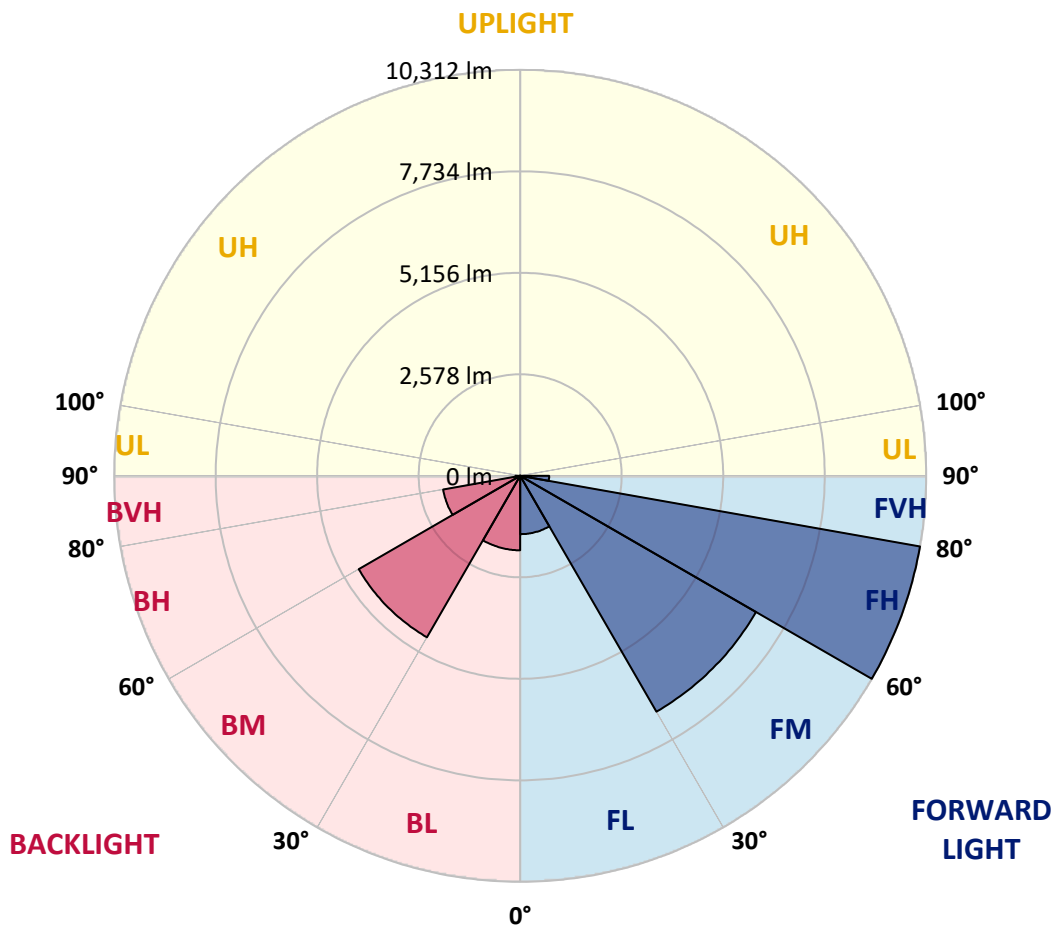
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1482.0	5.3			
FM (30°-60°)	6916.3	24.5			
FH (60°-80°)	10311.6	36.6			G4/12000
FVH (80°-90°)	735.5	2.6			G4/750
BL (0°-30°)	1890.9	6.7	B3/2500		
BM (30°-60°)	4735.0	16.8	B3/5000		
BH (60°-80°)	1986.2	7.0	B3/2500		G3/2500
BVH (80°-90°)	117.4	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	3221.8	3221.8	3221.8	3221.8	3221.8	3221.8	3221.8	3221.8	3221.8	3221.8
2.5°	3172.5	3190.5	3186.0	3180.0	3180.0	3181.5	3180.0	3190.5	3200.9	3211.4
5°	3205.4	3223.3	3214.4	3206.9	3200.9	3199.4	3195.0	3193.5	3199.4	3212.9
7.5°	3269.7	3287.6	3274.2	3260.7	3248.7	3242.8	3236.8	3227.8	3223.3	3230.8
10°	3341.4	3359.3	3342.9	3319.0	3299.6	3292.1	3286.1	3277.1	3271.2	3275.6
12.5°	3413.1	3431.1	3408.6	3375.8	3350.4	3345.9	3338.4	3335.4	3333.9	3332.4
15°	3480.4	3495.3	3466.9	3428.1	3401.2	3393.7	3386.2	3390.7	3398.2	3407.1
17.5°	3532.7	3547.6	3505.8	3455.0	3429.6	3426.6	3422.1	3437.0	3458.0	3480.4
20°	3580.5	3595.4	3541.6	3472.9	3443.0	3443.0	3444.5	3475.9	3505.8	3538.7
22.5°	3647.7	3659.7	3593.9	3499.8	3456.5	3459.5	3471.4	3502.8	3540.1	3585.0
25°	3747.9	3756.8	3676.1	3550.6	3501.3	3510.3	3520.7	3535.7	3571.5	3623.8
27.5°	3909.3	3916.7	3810.6	3640.3	3565.6	3580.5	3595.4	3585.0	3601.4	3646.2
30°	4136.4	4140.9	4006.4	3780.7	3674.6	3682.1	3685.1	3641.8	3610.4	3646.2
32.5°	4405.4	4403.9	4244.0	3951.1	3798.7	3791.2	3765.8	3680.6	3607.4	3638.8
35°	4822.3	4805.9	4599.7	4190.2	3939.1	3892.8	3833.0	3724.0	3622.3	3631.3
37.5°	5512.7	5461.9	5176.5	4581.7	4148.4	4030.3	3942.1	3794.2	3655.2	3628.3
40°	6291.3	6227.0	5913.2	5118.2	4462.2	4272.4	4130.4	3894.3	3709.0	3641.8
42.5°	7214.8	7123.6	6785.9	5750.3	4859.7	4584.7	4371.0	4021.3	3788.2	3685.1
45°	8349.0	8228.0	7749.8	6463.1	5360.3	4994.2	4708.7	4214.1	3909.3	3768.8
47.5°	9495.2	9525.1	8845.1	7279.0	5961.0	5499.3	5131.6	4504.0	4085.6	3903.3
50°	10713.1	10734.0	9934.5	8183.1	6642.4	6070.1	5606.9	4828.3	4330.7	4094.6
52.5°	11663.5	11666.5	10923.8	9129.1	7352.3	6697.7	6119.4	5198.9	4614.6	4348.6
55°	12258.3	12250.8	11617.2	10024.2	8168.2	7356.8	6687.3	5620.3	4961.3	4647.5
57.5°	12690.1	12667.7	12095.4	10793.8	9037.9	8135.3	7329.9	6098.5	5370.7	5003.1
60°	12854.5	12841.1	12419.7	11458.8	9952.5	8996.1	8071.1	6633.5	5835.5	5423.0
62.5°	12917.3	12942.7	12738.0	12102.9	10931.3	9949.5	8885.5	7273.1	6358.5	5898.3
65°	13138.4	13184.8	13142.9	12945.7	12037.1	11065.8	9965.9	8033.7	6929.4	6407.8
67.5°	13576.3	13622.6	13640.6	13954.4	13388.0	12457.0	11313.8	8981.1	7597.3	6936.8
70°	13565.8	13552.4	13869.2	14756.8	15079.6	14383.3	13131.0	10146.7	8393.8	7376.2
72.5°	12347.9	12240.3	12989.0	14747.9	16487.3	16394.7	15350.1	11650.1	9081.3	7430.0
75°	9263.6	8976.6	10299.2	13290.9	16721.9	17536.4	16760.8	12582.5	8918.4	6564.7
77.5°	3961.6	3673.1	5231.8	9838.9	14966.1	16393.2	15466.7	10977.6	7119.2	4341.1
80°	1037.1	1035.6	1581.0	4460.7	10178.1	12105.8	10620.4	7089.3	4067.7	1551.1
82.5°	428.9	418.4	581.3	1735.0	4973.2	6793.4	5544.1	3162.1	1469.0	419.9
85°	159.9	158.4	282.4	599.2	1754.4	2801.9	2027.9	808.5	366.1	204.7
87.5°	44.8	43.3	61.3	207.7	427.4	648.6	346.7	133.0	103.1	80.7
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°
3221.8	0°	3221.8	3221.8	3221.8	3221.8	3221.8	3221.8	3221.8	3221.8	3221.8	3221.8
3227.8	2.5°	3232.3	3239.8	3253.2	3263.7	3277.1	3292.1	3313.0	3326.5	3339.9	3348.9
3235.3	5°	3245.8	3262.2	3296.6	3330.9	3371.3	3408.6	3452.0	3483.4	3508.8	3516.2
3262.2	7.5°	3275.6	3302.5	3360.8	3419.1	3483.4	3544.6	3607.4	3661.2	3704.5	3721.0
3310.0	10°	3327.9	3363.8	3446.0	3528.2	3613.4	3707.5	3788.2	3865.9	3927.2	3952.6
3366.8	12.5°	3393.7	3438.5	3546.1	3659.7	3777.8	3907.8	4012.4	4108.0	4184.2	4218.6
3446.0	15°	3478.9	3537.2	3674.6	3827.1	4000.4	4181.2	4314.2	4420.3	4505.5	4547.3
3528.2	17.5°	3571.5	3649.2	3822.6	4052.7	4300.8	4538.4	4693.8	4771.5	4859.7	4900.0
3604.4	20°	3661.2	3756.8	4004.9	4339.6	4669.9	4922.4	5048.0	5068.9	5074.9	5079.3
3676.1	22.5°	3753.8	3882.4	4233.5	4701.3	5055.4	5230.3	5248.2	5158.5	5033.0	4974.7
3746.4	25°	3855.5	4025.8	4532.4	5100.3	5387.2	5408.1	5270.6	5052.4	4814.8	4705.8
3803.2	27.5°	3954.1	4191.7	4891.1	5481.3	5626.3	5442.5	5146.6	4837.3	4550.3	4435.3
3843.5	30°	4052.7	4381.5	5287.1	5814.6	5735.4	5357.3	4950.8	4605.6	4317.2	4196.2
3879.4	32.5°	4152.8	4602.6	5742.8	6055.2	5715.9	5176.5	4707.2	4345.6	4091.6	3964.5
3910.8	35°	4266.4	4874.6	6174.7	6186.7	5585.9	4910.5	4386.0	4034.8	3813.6	3712.0
3948.1	37.5°	4414.4	5219.8	6555.8	6219.5	5358.8	4520.5	3987.0	3667.2	3484.9	3438.5
4003.4	40°	4598.2	5635.2	6847.2	6167.2	5022.6	4046.7	3550.6	3295.1	3192.0	3202.4
4078.1	42.5°	4837.3	6100.0	7051.9	6032.7	4554.8	3558.1	3168.1	3054.5	3103.8	3145.6
4190.2	45°	5148.1	6582.7	7178.9	5804.1	4025.8	3144.1	2942.4	2969.3	3006.7	3011.1
4371.0	47.5°	5545.6	7071.3	7262.6	5458.9	3486.4	2852.7	2798.9	2804.9	2797.4	2766.1
4641.5	50°	6041.7	7546.5	7337.3	5001.6	3027.6	2670.4	2598.7	2577.8	2474.7	2373.1
5001.6	52.5°	6606.6	7982.9	7368.7	4433.8	2670.4	2518.0	2401.4	2269.9	2077.2	2045.8
5454.4	55°	7234.2	8386.4	7288.0	3735.9	2370.1	2322.2	2145.9	1987.5	1966.6	1939.7
6050.7	57.5°	7984.4	8821.2	7123.6	2957.3	2062.2	2093.6	1921.8	1939.7	1902.3	1860.5
6817.3	60°	8804.8	9271.0	6835.2	2247.5	1743.9	1808.2	1863.5	1862.0	1851.5	1817.1
7625.7	62.5°	9543.0	9566.9	6267.4	1721.5	1464.5	1587.0	1737.9	1736.5	1727.5	1708.1
8470.1	65°	9982.4	9522.1	5319.9	1355.4	1234.3	1404.7	1567.6	1579.5	1581.0	1579.5
9105.2	67.5°	9904.6	8997.6	4019.8	1078.9	1044.6	1219.4	1398.7	1415.2	1427.1	1430.1
9185.9	70°	9026.0	7845.4	2621.1	860.8	875.7	1056.5	1238.8	1255.3	1265.7	1277.7
7970.9	72.5°	7035.5	5768.2	1500.3	696.4	727.8	916.0	1080.4	1099.9	1105.8	1128.2
5547.1	75°	4287.3	3392.2	809.9	548.4	597.7	783.0	923.5	945.9	956.4	983.3
2724.2	77.5°	2038.3	1469.0	461.8	427.4	481.2	639.6	780.1	805.5	777.1	792.0
751.7	80°	688.9	545.4	291.4	325.8	367.6	499.1	624.6	650.0	590.3	587.3
249.6	82.5°	240.6	221.2	185.3	216.7	237.6	357.2	472.2	505.1	439.3	437.8
112.1	85°	94.1	89.7	103.1	118.1	142.0	219.7	310.8	327.3	270.5	218.2
32.9	87.5°	19.4	20.9	25.4	26.9	43.3	76.2	112.1	137.5	109.1	92.7
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

<u>180°</u>
3221.8
3342.9
3519.2
3722.5
3954.1
4218.6
4544.4
4898.5
5091.3
4991.2
4722.2
4448.7
4209.6
3981.0
3734.4
3471.4
3238.3
3184.5
3041.0
2790.0
2386.5
2056.2
1944.2
1853.0
1805.2
1700.6
1579.5
1433.1
1283.7
1137.2
986.3
780.1
581.3
416.9
215.2
85.2
0.0

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