

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: P955455

Luminaire Tested: **GALN-SB8B-927-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955455
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-SB8B-927-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27662 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

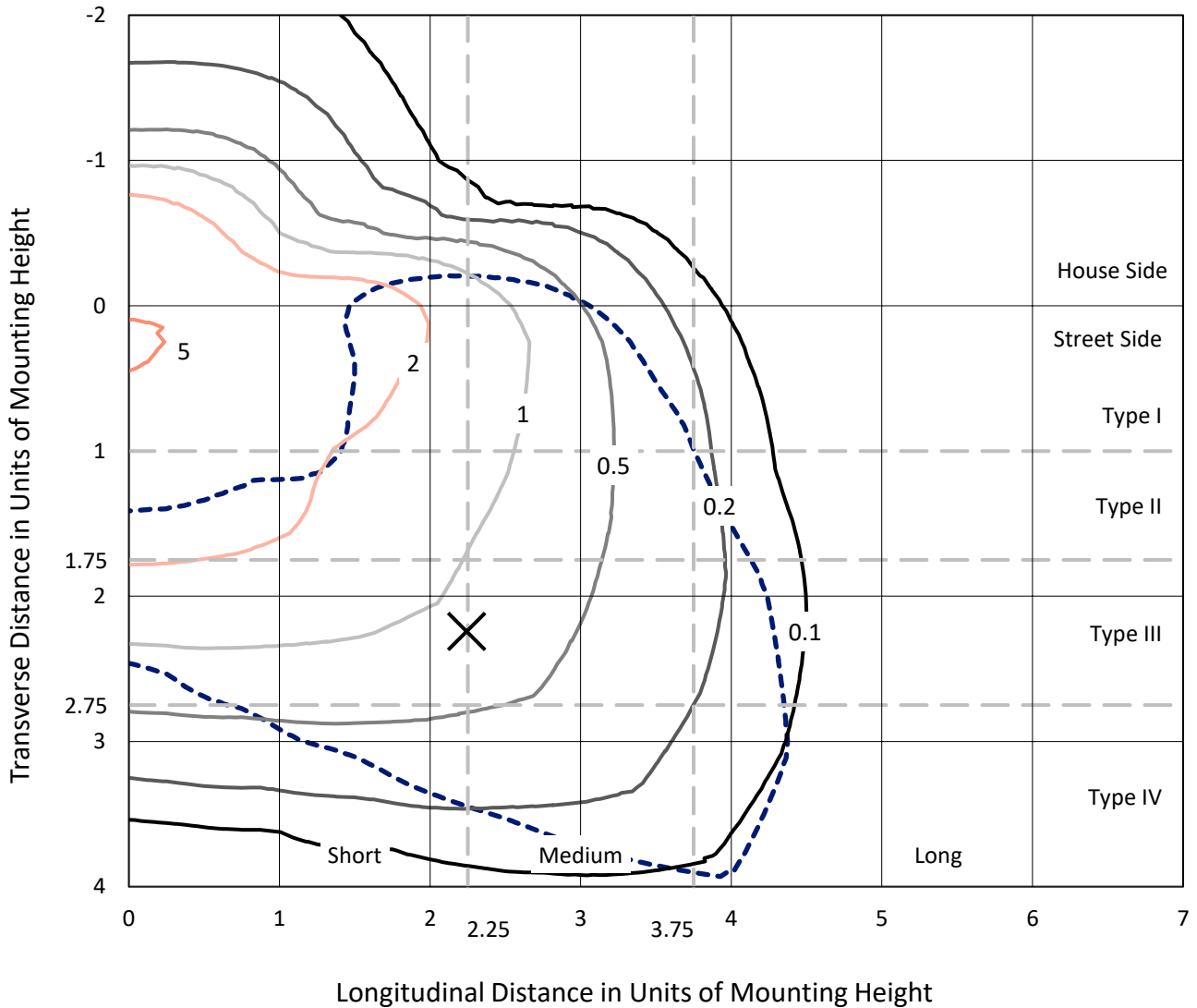
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

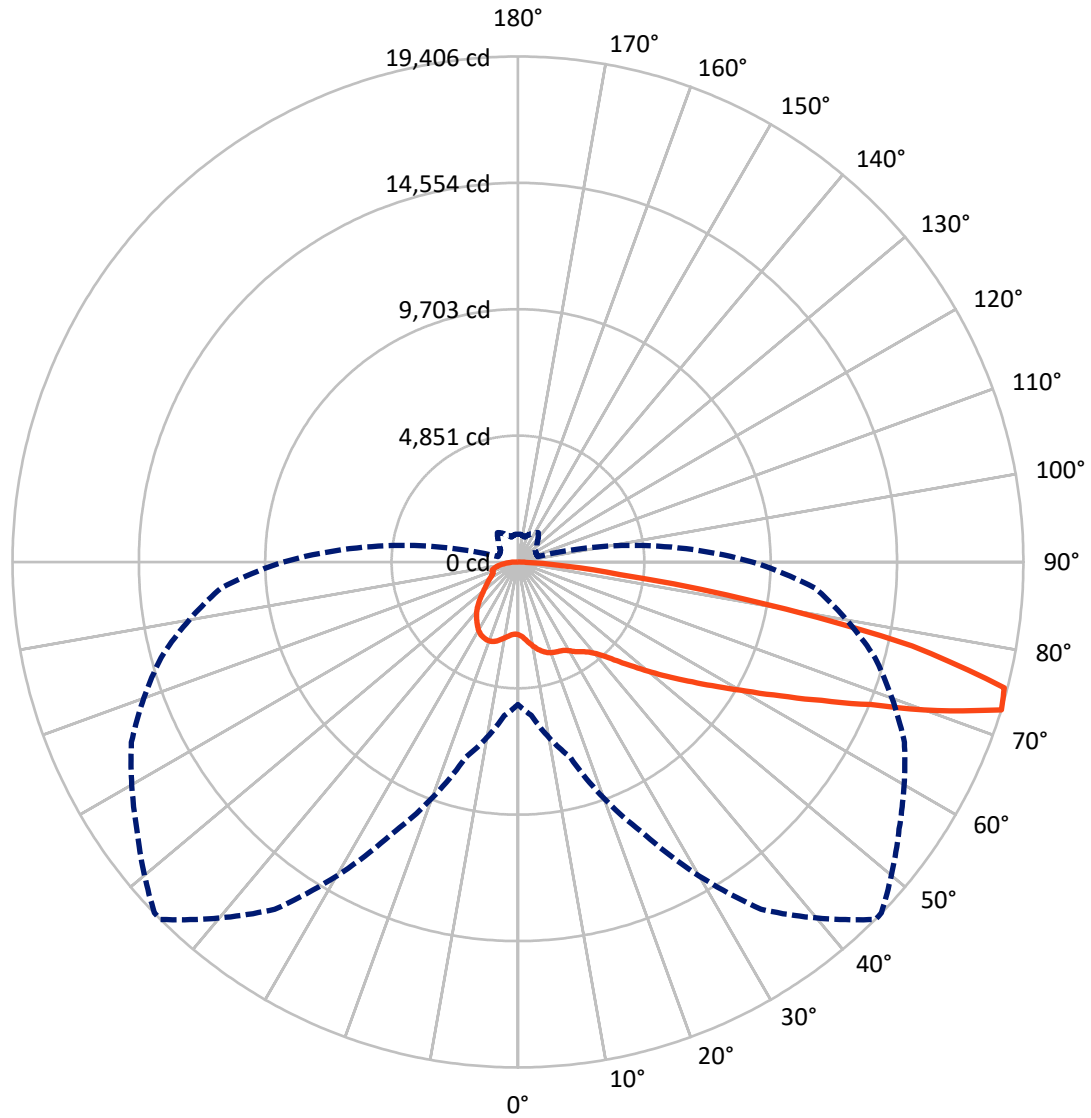
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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	6253.4	0.0	6253.4
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	21408.6	0.0	21408.6
	% Fixture	77.4	0.0	77.4
Total	Lumens	27662.0	0.0	27662.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.0	1.0
10°-20°	947.0	3.4
20°-30°	1647.3	6.0
30°-40°	2361.5	8.5
40°-50°	3325.1	12.0
50°-60°	5093.1	18.4
60°-70°	7378.2	26.7
70°-80°	5891.9	21.3
80°-90°	733.8	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°	27662.0	100.0
0°-180°	27662.0	100.0

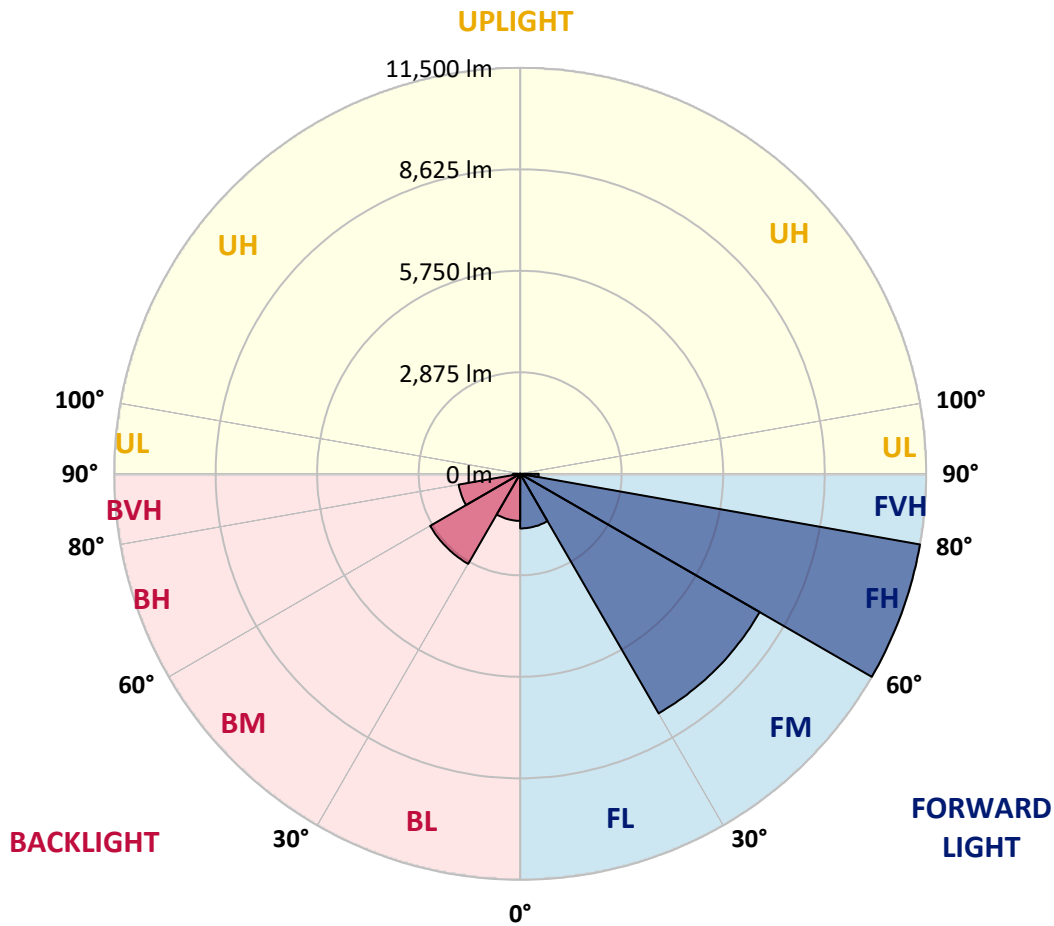


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1546.9	5.6			
FM (30°-60°)	7835.3	28.3			
FH (60°-80°)	11499.9	41.6			G4/12000
FVH (80°-90°)	526.4	1.9			G4/750
BL (0°-30°)	1331.4	4.8	B3/2500		
BM (30°-60°)	2944.5	10.6	B3/5000		
BH (60°-80°)	1770.2	6.4	B3/2500		G3/2500
BVH (80°-90°)	207.4	0.7			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	2790.6	2790.6	2790.6	2790.6	2790.6	2790.6	2790.6	2790.6	2790.6	2790.6
2.5°	2899.8	2918.8	2901.3	2885.3	2878.0	2859.0	2857.6	2845.9	2838.6	2818.2
5°	3102.4	3127.2	3098.0	3066.0	3036.8	2990.2	2984.4	2950.9	2913.0	2869.2
7.5°	3331.2	3353.0	3319.5	3271.4	3220.4	3143.2	3141.7	3080.5	3020.8	2946.5
10°	3530.8	3560.0	3514.8	3449.2	3385.1	3297.7	3287.5	3217.5	3141.7	3045.6
12.5°	3707.1	3727.5	3683.8	3603.7	3529.4	3441.9	3428.8	3351.6	3267.1	3157.8
15°	3847.0	3873.3	3815.0	3729.0	3650.3	3564.3	3552.7	3482.7	3398.2	3283.1
17.5°	3938.8	3960.7	3901.0	3804.8	3729.0	3657.6	3648.9	3590.6	3516.2	3399.7
20°	3973.8	3997.1	3934.5	3836.8	3766.9	3711.5	3707.1	3664.9	3613.9	3507.5
22.5°	4008.8	4030.6	3949.0	3847.0	3785.8	3750.9	3749.4	3721.7	3701.3	3613.9
25°	4150.1	4156.0	4046.7	3899.5	3812.1	3781.5	3780.0	3778.5	3787.3	3718.8
27.5°	4272.5	4271.1	4177.8	4039.4	3903.9	3839.7	3838.3	3852.9	3880.6	3823.7
30°	4451.8	4435.7	4325.0	4180.7	4056.9	3957.8	3949.0	3935.9	3957.8	3912.6
32.5°	4832.1	4781.1	4601.9	4345.4	4183.7	4107.9	4096.2	4014.6	4023.4	3995.7
35°	5377.1	5310.1	5071.1	4657.2	4341.0	4233.2	4227.4	4123.9	4106.4	4081.6
37.5°	6025.6	5942.5	5664.2	5109.0	4612.1	4378.9	4370.2	4276.9	4205.5	4179.3
40°	6676.9	6572.0	6341.8	5659.8	5011.3	4622.3	4594.6	4453.2	4371.6	4327.9
42.5°	7309.4	7221.9	7025.2	6277.7	5503.9	4977.8	4916.6	4674.7	4613.5	4572.7
45°	7868.9	7790.2	7646.0	6937.8	6080.9	5461.6	5401.9	5007.0	4988.0	4988.0
47.5°	8323.6	8306.1	8153.1	7611.0	6761.5	6012.4	5909.0	5468.9	5519.9	5598.6
50°	8827.8	8779.7	8616.5	8274.0	7561.5	6643.4	6558.9	6035.8	6226.7	6442.3
52.5°	9291.2	9317.4	9135.3	8964.8	8464.9	7347.3	7198.6	6704.6	7117.0	7474.0
55°	9767.7	9769.1	9718.1	9694.8	9412.1	8125.4	7962.2	7509.0	8164.7	8607.7
57.5°	10215.0	10218.0	10293.7	10499.2	10510.9	9023.0	8838.0	8497.0	9329.1	9780.8
60°	10614.3	10634.7	10841.6	11322.5	11477.0	10051.8	9877.0	9664.2	10532.7	10987.4
62.5°	10748.4	10822.7	11283.2	11966.6	12431.5	11313.8	11141.8	11015.1	11797.6	12220.2
65°	10521.1	10691.6	11581.9	12498.5	13413.6	12813.2	12642.8	12504.3	13112.0	13509.8
67.5°	9962.9	10183.0	11564.4	13056.6	14605.6	14617.3	14458.4	14133.5	14521.1	14674.1
70°	8492.6	8822.0	10545.8	13265.0	15973.9	17084.3	16931.3	16094.9	15927.3	15187.0
72.5°	5471.8	5914.8	7765.5	11549.8	16278.5	19405.7	19396.9	17865.4	16371.8	14190.3
75°	1996.4	2267.4	3608.1	7249.6	13664.3	19287.6	19344.5	17562.3	14945.1	10961.1
77.5°	727.1	795.6	1177.4	2786.2	8403.7	15475.6	15593.6	14040.2	10637.6	5501.0
80°	381.8	419.7	603.3	1081.2	3600.8	9190.6	9375.7	8344.0	4999.7	1656.8
82.5°	211.3	228.8	338.1	587.3	1621.9	3930.1	4040.8	3296.2	1758.9	702.4
85°	113.7	120.9	158.8	320.6	792.7	1362.5	1393.1	985.1	700.9	412.4
87.5°	33.5	40.8	52.5	102.0	310.4	306.0	313.3	195.3	276.9	208.4
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°
2790.6	0°	2790.6	2790.6	2790.6	2790.6	2790.6	2790.6	2790.6	2790.6	2790.6	2790.6
2812.4	2.5°	2803.7	2799.3	2783.3	2776.0	2767.2	2765.8	2773.1	2774.5	2776.0	2777.4
2844.5	5°	2829.9	2815.3	2800.8	2792.0	2794.9	2796.4	2811.0	2821.2	2828.4	2834.3
2904.2	7.5°	2880.9	2869.2	2844.5	2843.0	2847.4	2860.5	2879.4	2902.8	2915.9	2926.1
2981.5	10°	2956.7	2934.8	2905.7	2910.0	2918.8	2937.7	2977.1	2996.0	3017.9	3036.8
3076.2	12.5°	3033.9	3015.0	2981.5	2984.4	2998.9	3032.5	3070.3	3093.7	3108.2	3122.8
3178.2	15°	3134.5	3100.9	3064.5	3064.5	3090.7	3127.2	3144.7	3163.6	3172.3	3188.4
3287.5	17.5°	3237.9	3194.2	3146.1	3143.2	3175.3	3192.7	3202.9	3205.9	3208.8	3226.3
3393.8	20°	3341.4	3293.3	3224.8	3219.0	3226.3	3223.3	3221.9	3219.0	3223.3	3245.2
3503.1	22.5°	3443.4	3388.0	3293.3	3267.1	3246.7	3219.0	3217.5	3216.1	3219.0	3240.8
3621.2	25°	3562.9	3495.8	3369.1	3290.4	3221.9	3184.0	3188.4	3189.8	3192.7	3210.2
3743.6	27.5°	3692.6	3618.3	3439.0	3283.1	3159.2	3133.0	3125.7	3130.1	3140.3	3168.0
3866.0	30°	3822.3	3734.8	3503.1	3254.0	3080.5	3044.1	3020.8	3031.0	3063.1	3090.7
3972.4	32.5°	3940.3	3852.9	3554.1	3189.8	2980.0	2923.2	2892.6	2905.7	2937.7	2947.9
4090.4	35°	4078.7	3979.6	3576.0	3087.8	2870.7	2783.3	2742.5	2723.5	2739.6	2729.4
4228.8	37.5°	4233.2	4129.7	3573.1	2953.8	2742.5	2641.9	2585.1	2513.7	2480.2	2445.2
4432.8	40°	4462.0	4313.3	3538.1	2792.0	2583.6	2491.8	2389.8	2268.9	2193.1	2124.6
4762.2	42.5°	4773.8	4568.4	3474.0	2614.2	2404.4	2318.4	2180.0	2038.6	1919.1	1805.5
5262.0	45°	5238.7	4902.1	3393.8	2424.8	2210.6	2126.1	1976.0	1817.1	1681.6	1535.9
5971.6	47.5°	5909.0	5350.9	3318.1	2209.1	2006.6	1929.3	1793.8	1646.6	1486.4	1345.0
6997.5	50°	6829.9	5995.0	3248.1	1999.3	1805.5	1747.2	1639.4	1489.3	1327.5	1213.9
8199.7	52.5°	8001.5	6870.7	3219.0	1796.7	1617.5	1595.6	1509.7	1369.8	1216.8	1120.6
9601.6	55°	9346.5	7918.5	3219.0	1602.9	1452.8	1460.1	1400.4	1270.7	1138.1	1052.1
11047.1	57.5°	10719.2	8979.3	3160.7	1423.7	1312.9	1343.5	1305.7	1192.0	1072.5	983.6
12567.0	60°	11984.1	9868.2	2924.6	1260.5	1189.1	1237.2	1212.4	1114.8	969.0	894.7
13837.7	62.5°	12956.1	10369.5	2470.0	1130.8	1087.1	1142.5	1129.3	1012.8	950.1	919.5
14881.0	65°	13442.8	10287.9	1888.5	1015.7	1001.1	1087.1	1059.4	1055.0	1005.5	970.5
15220.6	67.5°	13144.0	9585.5	1369.8	931.2	951.6	1036.1	1142.5	1159.9	1068.1	999.6
14264.6	70°	11834.0	8314.8	1020.0	851.0	888.9	1037.5	1302.7	1213.9	1047.7	967.6
11440.6	72.5°	9002.6	6200.4	791.3	766.5	807.3	1044.8	1374.1	1189.1	989.4	1069.6
7127.2	75°	5148.3	3404.0	635.3	663.0	705.3	976.3	1337.7	1125.0	944.3	982.2
2824.1	77.5°	1962.9	1308.6	524.6	561.0	566.9	852.5	1279.4	1120.6	899.1	877.2
846.6	80°	680.5	511.5	434.2	445.9	438.6	757.7	1227.0	974.9	735.9	658.7
349.7	82.5°	278.3	255.0	343.9	329.3	311.8	588.7	990.9	797.1	601.8	531.9
169.0	85°	120.9	161.8	227.3	199.6	180.7	408.0	794.2	674.7	508.6	438.6
55.4	87.5°	24.8	61.2	96.2	90.3	93.3	272.5	563.9	479.4	359.9	269.6
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°
2790.6
2783.3
2837.2
2929.0
3032.5
3128.6
3194.2
3232.1
3254.0
3255.4
3233.5
3195.7
3121.3
2984.4
2761.4
2467.1
2129.0
1795.3
1518.4
1329.0
1206.6
1113.3
1043.4
969.0
883.1
909.3
958.8
988.0
954.5
1060.8
982.2
800.0
636.8
526.1
437.2
211.3
0.0

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