

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: P957429

Luminaire Tested: **GALN-SB9D-740-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957429
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-SB9D-740-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 97869 lumens
Efficiency: N/A
Efficacy: 148.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U0 - G5

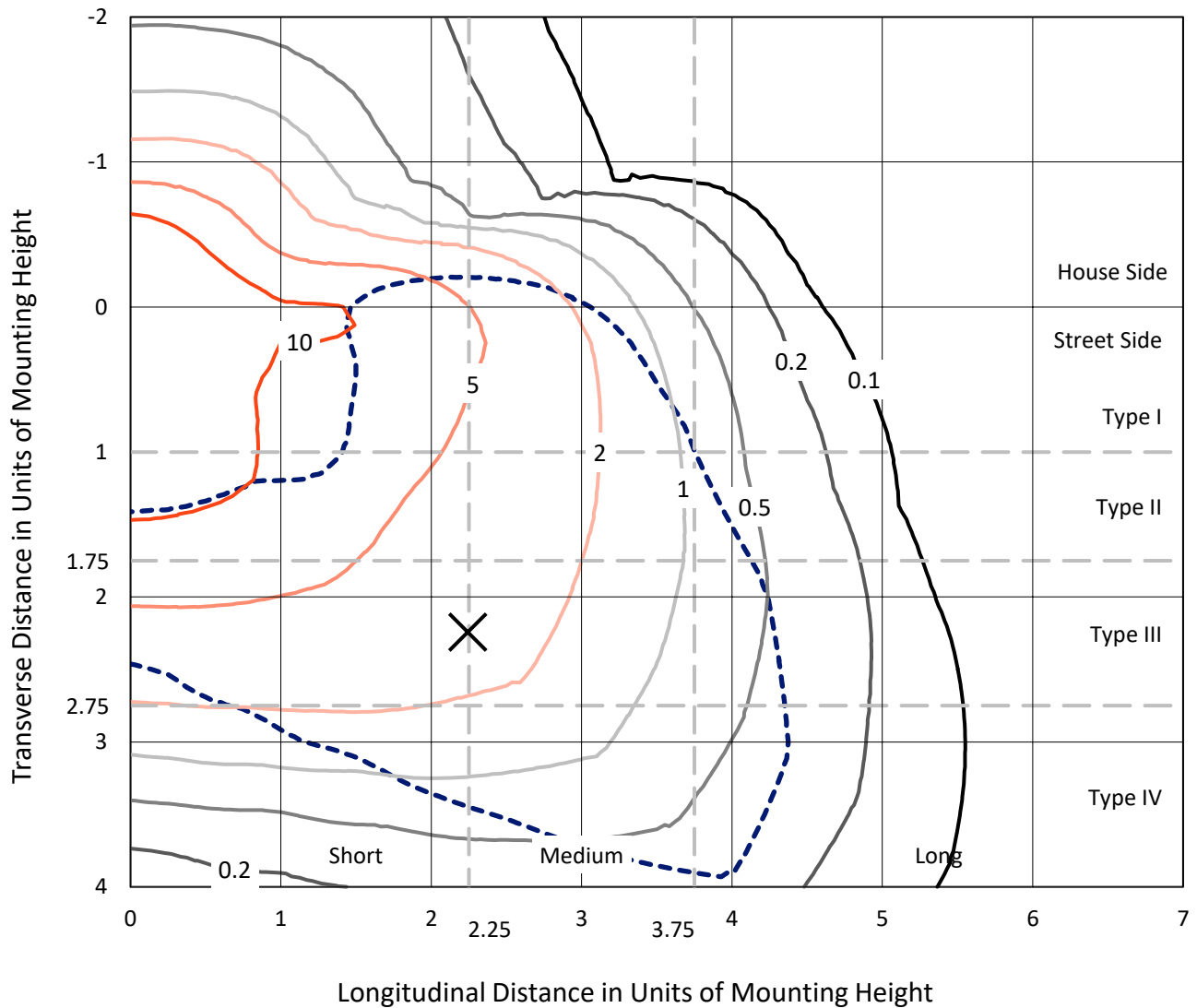
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P957429
 CATALOG NUMBER: GALN-SB9D-740-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

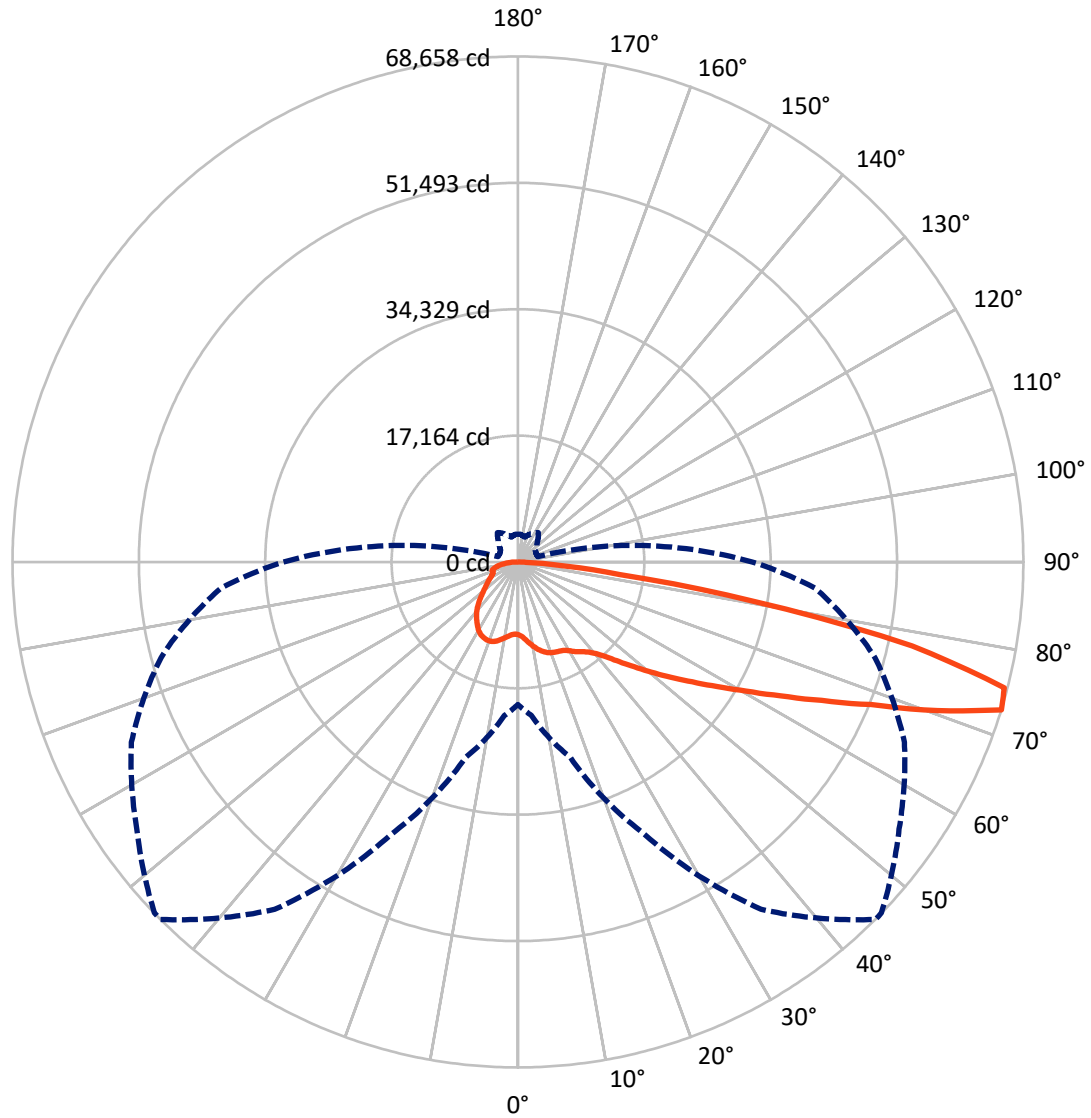
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P957429
CATALOG NUMBER: GALN-SB9D-740-U-T4W

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	22124.8	0.0	22124.8
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	75744.2	0.0	75744.2
	% Fixture	77.4	0.0	77.4
Total	Lumens	97869.0	0.0	97869.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1004.9	1.0
10°-20°	3350.4	3.4
20°-30°	5828.2	6.0
30°-40°	8355.1	8.5
40°-50°	11764.5	12.0
50°-60°	18019.7	18.4
60°-70°	26104.2	26.7
70°-80°	20845.8	21.3
80°-90°	2596.2	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°	97869.0	100.0
0°-180°	97869.0	100.0



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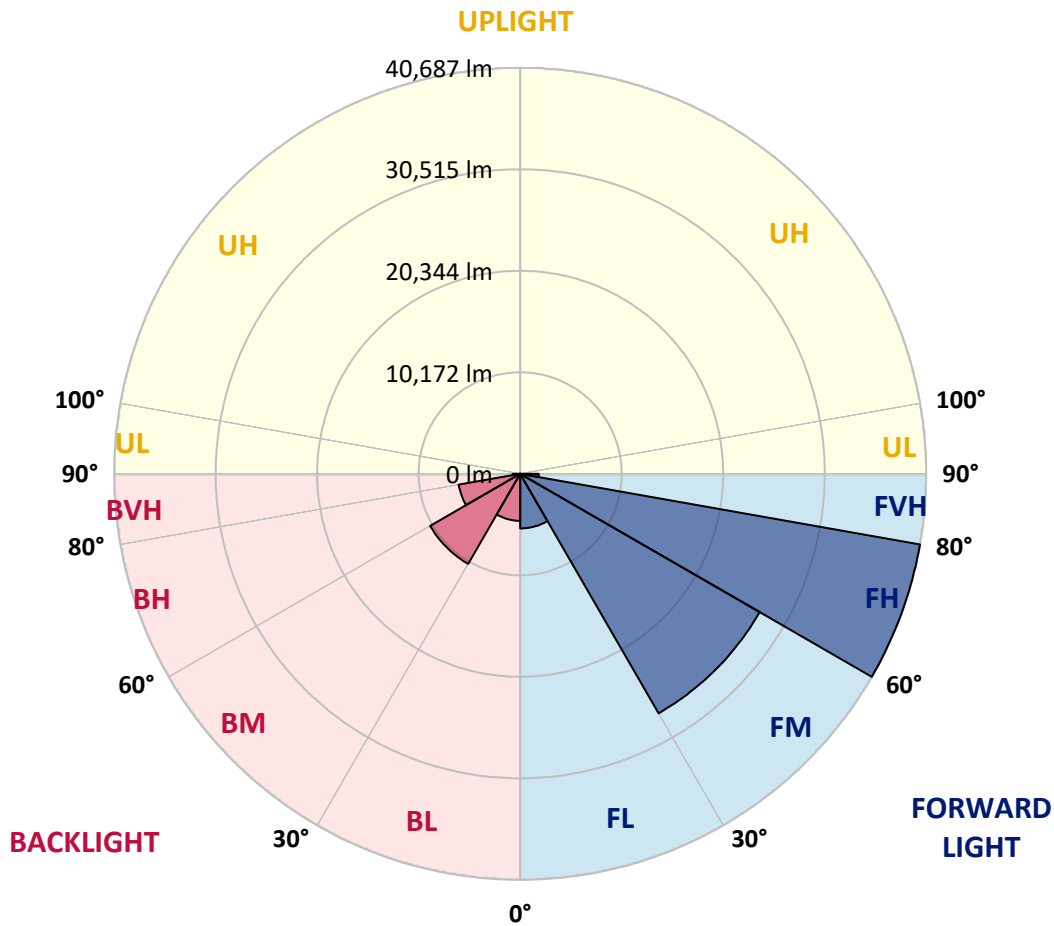
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5473.0	5.6			
FM (30°-60°)	27721.6	28.3			
FH (60°-80°)	40687.0	41.6			G5
FVH (80°-90°)	1862.6	1.9			G5
BL (0°-30°)	4710.5	4.8	B4/5000		
BM (30°-60°)	10417.7	10.6	B5		
BH (60°-80°)	6263.0	6.4	B5		G5
BVH (80°-90°)	733.7	0.7			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type IV Short



REPORT NUMBER: P957429

CATALOG NUMBER: GALN-SB9D-740-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	9873.1	9873.1	9873.1	9873.1	9873.1	9873.1	9873.1	9873.1	9873.1	9873.1
2.5°	10259.8	10326.8	10264.9	10208.2	10182.4	10115.4	10110.2	10069.0	10043.2	9971.0
5°	10976.4	11064.0	10960.9	10847.5	10744.4	10579.4	10558.8	10440.2	10306.2	10151.5
7.5°	11785.8	11863.2	11744.6	11574.4	11394.0	11120.7	11115.6	10899.1	10687.7	10424.7
10°	12492.1	12595.3	12435.4	12203.4	11976.6	11667.2	11631.2	11383.7	11115.6	10775.3
12.5°	13116.0	13188.2	13033.5	12749.9	12487.0	12177.7	12131.3	11858.0	11559.0	11172.3
15°	13610.9	13703.7	13497.5	13193.3	12914.9	12610.7	12569.5	12322.0	12023.0	11615.7
17.5°	13935.7	14013.1	13801.7	13461.4	13193.3	12940.7	12909.8	12703.5	12440.6	12028.1
20°	14059.5	14142.0	13920.3	13574.8	13327.4	13131.5	13116.0	12966.5	12786.0	12409.7
22.5°	14183.2	14260.5	13971.8	13610.9	13394.4	13270.7	13265.5	13167.5	13095.4	12786.0
25°	14683.3	14703.9	14317.3	13796.5	13487.2	13378.9	13373.8	13368.6	13399.5	13157.2
27.5°	15116.4	15111.2	14781.3	14291.5	13812.0	13585.1	13580.0	13631.5	13729.5	13528.4
30°	15750.5	15693.8	15302.0	14791.6	14353.3	14002.8	13971.8	13925.4	14002.8	13842.9
32.5°	17096.1	16915.7	16281.6	15374.2	14801.9	14533.8	14492.5	14203.8	14234.8	14136.8
35°	19024.4	18787.2	17941.7	16477.5	15358.7	14977.2	14956.6	14590.5	14528.6	14441.0
37.5°	21318.6	21024.8	20040.0	18075.7	16317.6	15492.7	15461.8	15131.8	14879.2	14786.4
40°	23623.2	23252.0	22437.4	20024.6	17730.3	16353.7	16255.8	15755.7	15467.0	15312.3
42.5°	25860.8	25551.4	24855.4	22210.6	19472.9	17611.7	17395.2	16539.3	16322.8	16178.4
45°	27840.5	27562.1	27051.7	24546.1	21514.5	19323.4	19112.0	17714.8	17647.8	17647.8
47.5°	29449.1	29387.2	28845.9	26928.0	23922.2	21272.2	20906.2	19349.2	19529.6	19808.0
50°	31233.0	31062.8	30485.4	29273.8	26752.7	23504.6	23205.6	21354.7	22030.1	22793.1
52.5°	32872.4	32965.3	32320.8	31717.6	29949.2	25994.8	25468.9	23721.2	25180.2	26443.3
55°	34558.3	34563.5	34383.1	34300.6	33300.4	28747.9	28170.5	26567.1	28887.1	30454.4
57.5°	36141.1	36151.4	36419.5	37146.5	37187.7	31923.8	31269.0	30062.6	33006.5	34604.7
60°	37553.8	37626.0	38358.1	40059.4	40605.9	35563.7	34945.0	34192.3	37265.1	38873.6
62.5°	38028.1	38291.0	39920.2	42338.2	43982.9	40028.5	39420.1	38971.6	41740.2	43235.3
65°	37223.8	37827.0	40977.1	44220.0	47457.8	45333.7	44730.5	44240.7	46390.6	47798.1
67.5°	35249.2	36027.7	40915.3	46194.7	51675.1	51716.4	51154.4	50004.7	51376.1	51917.4
70°	30047.2	31212.3	37311.5	46931.9	56516.3	60444.9	59903.5	56944.2	56351.3	53732.2
72.5°	19359.5	20926.8	27474.5	40863.7	57593.8	68657.8	68626.9	63208.3	57923.8	50205.8
75°	7063.2	8022.2	12765.4	25649.4	48344.6	68240.2	68441.3	62135.9	52876.4	38780.8
77.5°	2572.7	2815.0	4165.8	9857.6	29732.7	54753.0	55170.7	49674.7	37636.3	19462.6
80°	1350.8	1484.8	2134.4	3825.5	12739.6	32516.7	33171.5	29521.3	17689.0	5862.0
82.5°	747.6	809.4	1196.1	2077.7	5738.2	13904.8	14296.6	11662.1	6222.9	2485.0
85°	402.1	427.9	562.0	1134.2	2804.7	4820.5	4928.8	3485.2	2479.9	1459.1
87.5°	118.6	144.4	185.6	360.9	1098.2	1082.7	1108.5	690.9	979.6	737.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P957429
 CATALOG NUMBER: GALN-SB9D-740-U-T4W

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
9873.1	0°	9873.1	9873.1	9873.1	9873.1	9873.1	9873.1	9873.1	9873.1	9873.1	9873.1
9950.4	2.5°	9919.5	9904.0	9847.3	9821.5	9790.6	9785.4	9811.2	9816.4	9821.5	9826.7
10063.8	5°	10012.3	9960.7	9909.2	9878.2	9888.5	9893.7	9945.3	9981.3	10007.1	10027.7
10275.2	7.5°	10192.7	10151.5	10063.8	10058.7	10074.1	10120.5	10187.6	10270.1	10316.5	10352.6
10548.5	10°	10460.8	10383.5	10280.4	10295.8	10326.8	10393.8	10533.0	10600.0	10677.4	10744.4
10883.6	12.5°	10734.1	10667.0	10548.5	10558.8	10610.3	10728.9	10863.0	10945.5	10997.0	11048.6
11244.5	15°	11089.8	10971.2	10842.3	10842.3	10935.1	11064.0	11125.9	11192.9	11223.9	11280.6
11631.2	17.5°	11455.9	11301.2	11131.1	11120.7	11234.2	11296.0	11332.1	11342.4	11352.7	11414.6
12007.5	20°	11821.9	11651.8	11409.5	11388.8	11414.6	11404.3	11399.2	11388.8	11404.3	11481.6
12394.2	22.5°	12182.8	11986.9	11651.8	11559.0	11486.8	11388.8	11383.7	11378.5	11388.8	11466.2
12811.8	25°	12605.6	12368.4	11919.9	11641.5	11399.2	11265.1	11280.6	11285.7	11296.0	11357.9
13244.9	27.5°	13064.4	12801.5	12167.3	11615.7	11177.5	11084.7	11058.9	11074.3	11110.4	11208.4
13677.9	30°	13523.3	13213.9	12394.2	11512.6	10899.1	10770.2	10687.7	10723.8	10837.2	10935.1
14054.3	32.5°	13940.9	13631.5	12574.6	11285.7	10543.3	10342.2	10234.0	10280.4	10393.8	10429.9
14471.9	35°	14430.7	14080.1	12652.0	10924.8	10156.6	9847.3	9702.9	9635.9	9692.6	9656.5
14961.7	37.5°	14977.2	14611.1	12641.7	10450.5	9702.9	9347.2	9146.1	8893.5	8774.9	8651.2
15683.5	40°	15786.6	15260.7	12517.9	9878.2	9141.0	8816.2	8455.3	8027.4	7759.3	7516.9
16848.7	42.5°	16889.9	16163.0	12291.1	9249.2	8506.8	8202.6	7712.9	7212.8	6790.0	6387.9
18617.1	45°	18534.6	17343.6	12007.5	8579.0	7821.1	7522.1	6991.1	6429.1	5949.6	5434.1
21127.9	47.5°	20906.2	18931.6	11739.4	7816.0	7099.3	6826.1	6346.6	5825.9	5258.8	4758.7
24757.5	50°	24164.5	21210.4	11492.0	7073.6	6387.9	6181.6	5800.1	5269.1	4696.8	4294.7
29010.9	52.5°	28309.7	24308.9	11388.8	6356.9	5722.8	5645.4	5341.3	4846.3	4305.0	3964.7
33970.6	55°	33068.4	28015.8	11388.8	5671.2	5140.2	5166.0	4954.6	4495.7	4026.6	3722.4
39085.0	57.5°	37925.0	31769.1	11182.6	5037.1	4645.2	4753.5	4619.5	4217.3	3794.6	3480.1
44462.4	60°	42400.1	34914.1	10347.4	4459.6	4207.0	4377.2	4289.5	3944.1	3428.5	3165.6
48958.1	62.5°	45838.9	36687.6	8738.8	4000.8	3846.1	4042.0	3995.6	3583.2	3361.5	3253.2
52649.5	65°	47560.9	36398.9	6681.7	3593.5	3541.9	3846.1	3748.2	3732.7	3557.4	3433.7
53850.8	67.5°	46504.0	33913.9	4846.3	3294.5	3366.6	3665.7	4042.0	4103.9	3779.1	3536.8
50468.7	70°	41869.1	29418.2	3609.0	3010.9	3144.9	3670.8	4609.2	4294.7	3706.9	3423.4
40477.0	72.5°	31851.6	21937.3	2799.5	2711.9	2856.2	3696.6	4861.8	4207.0	3500.7	3784.2
25216.3	75°	18214.9	12043.6	2247.9	2345.8	2495.3	3454.3	4732.9	3980.2	3340.9	3474.9
9991.7	77.5°	6944.7	4629.8	1856.0	1984.9	2005.5	3016.1	4526.7	3964.7	3181.0	3103.7
2995.4	80°	2407.7	1809.6	1536.4	1577.6	1551.9	2680.9	4341.1	3449.1	2603.6	2330.4
1237.4	82.5°	984.7	902.2	1216.7	1165.2	1103.3	2082.9	3505.8	2820.1	2129.3	1881.8
598.1	85°	427.9	572.3	804.3	706.3	639.3	1443.6	2809.8	2387.1	1799.3	1551.9
195.9	87.5°	87.6	216.5	340.3	319.7	330.0	964.1	1995.2	1696.2	1273.4	953.8
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

180°
9873.1
9847.3
10038.1
10362.9
10728.9
11069.2
11301.2
11435.2
11512.6
11517.7
11440.4
11306.3
11043.4
10558.8
9770.0
8728.5
7532.4
6351.8
5372.2
4702.0
4268.9
3938.9
3691.4
3428.5
3124.3
3217.1
3392.4
3495.5
3377.0
3753.3
3474.9
2830.5
2253.0
1861.2
1546.7
747.6
0.0

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