

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: P944732

Luminaire Tested: **GALN-SB9D-827-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944732
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-SB9D-827-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 79893 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B5 - U0 - G5

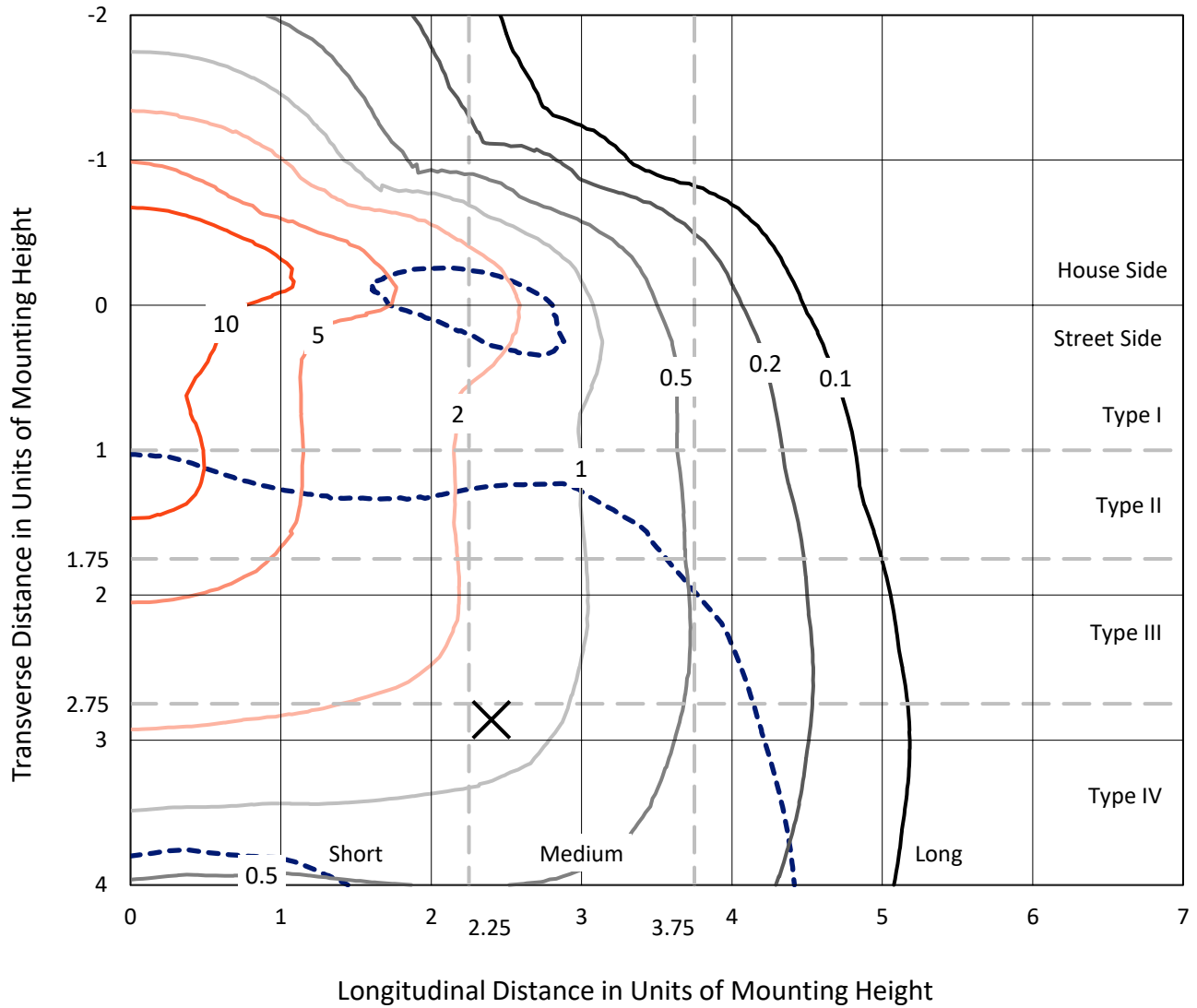
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

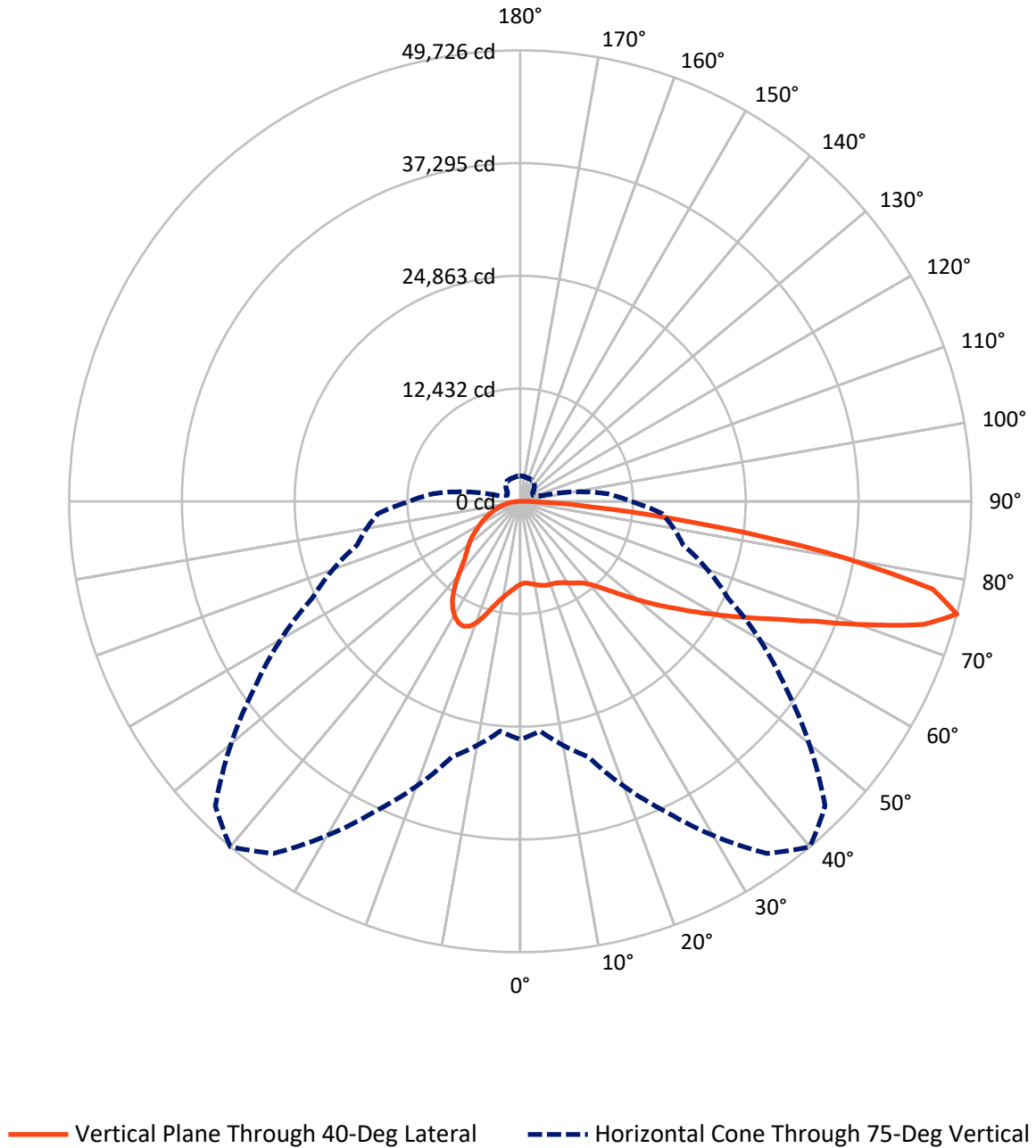
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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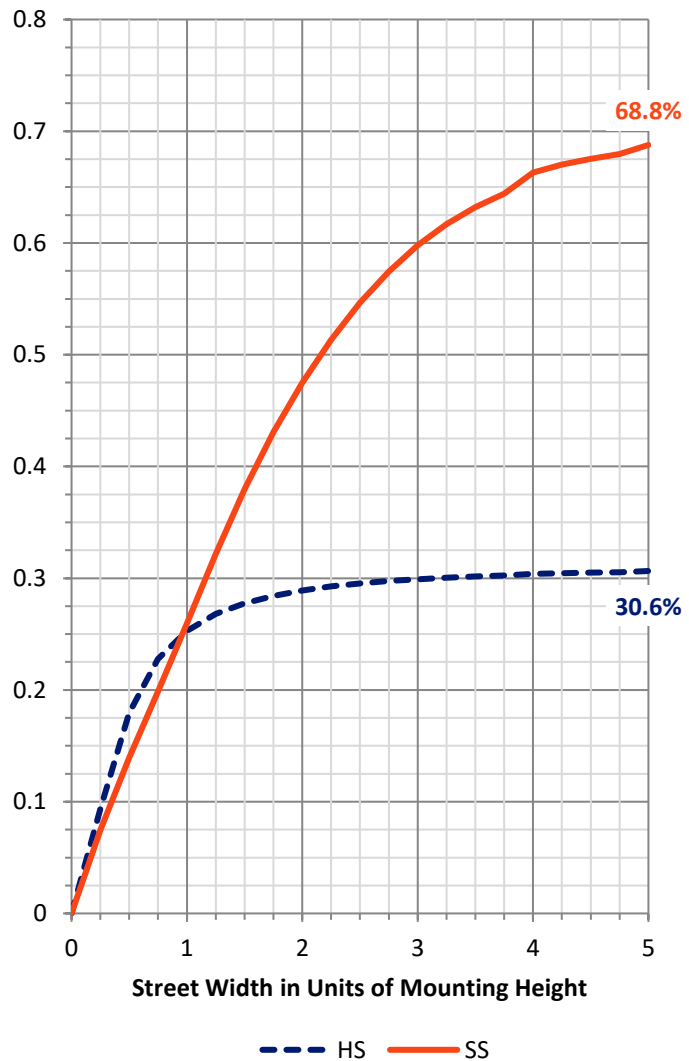
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24753.5	0.0	24753.5
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	55139.5	0.0	55139.5
	% Fixture	69.0	0.0	69.0
Total	Lumens	79893.0	0.0	79893.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	911.9	1.1
10°-20°	3061.8	3.8
20°-30°	5590.6	7.0
30°-40°	7928.9	9.9
40°-50°	10706.5	13.4
50°-60°	14403.1	18.0
60°-70°	18280.8	22.9
70°-80°	16591.0	20.8
80°-90°	2418.4	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°	79893.0	100.0
0°-180°	79893.0	100.0

Coefficient of Utilization



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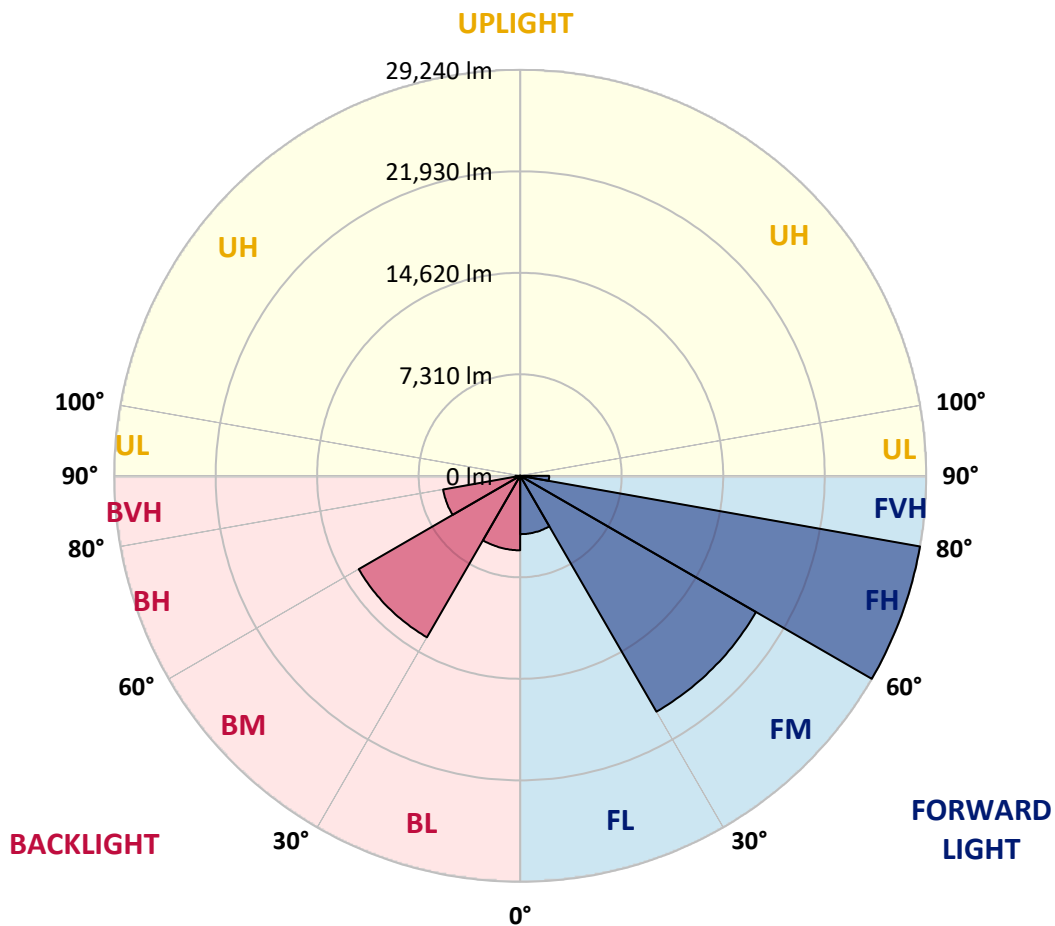
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4202.4	5.3			
FM (30°-60°)	19611.9	24.5			
FH (60°-80°)	29239.6	36.6			G5
FVH (80°-90°)	2085.5	2.6			G5
BL (0°-30°)	5361.8	6.7	B5		
BM (30°-60°)	13426.6	16.8	B5		
BH (60°-80°)	5632.2	7.0	B5		G5
BVH (80°-90°)	333.0	0.4			G3/500
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	9135.9	9135.9	9135.9	9135.9	9135.9	9135.9	9135.9	9135.9	9135.9	9135.9
2.5°	8996.0	9046.9	9034.2	9017.2	9017.2	9021.5	9017.2	9046.9	9076.5	9106.2
5°	9089.3	9140.1	9114.7	9093.5	9076.5	9072.3	9059.6	9055.4	9072.3	9110.4
7.5°	9271.5	9322.3	9284.2	9246.0	9212.1	9195.2	9178.2	9152.8	9140.1	9161.3
10°	9474.9	9525.7	9479.1	9411.3	9356.2	9335.0	9318.1	9292.7	9275.7	9288.4
12.5°	9678.3	9729.1	9665.5	9572.3	9500.3	9487.6	9466.4	9457.9	9453.7	9449.4
15°	9868.9	9911.3	9830.8	9720.6	9644.4	9623.2	9602.0	9614.7	9635.9	9661.3
17.5°	10017.3	10059.6	9941.0	9796.9	9724.9	9716.4	9703.7	9746.1	9805.4	9868.9
20°	10152.9	10195.2	10042.7	9847.8	9763.0	9763.0	9767.2	9856.2	9941.0	10034.2
22.5°	10343.5	10377.4	10191.0	9924.0	9801.1	9809.6	9843.5	9932.5	10038.4	10165.6
25°	10627.4	10652.9	10424.0	10068.1	9928.3	9953.7	9983.4	10025.7	10127.4	10275.7
27.5°	11085.1	11106.3	10805.4	10322.3	10110.5	10152.9	10195.2	10165.6	10212.2	10339.3
30°	11729.2	11741.9	11360.5	10720.7	10419.8	10441.0	10449.5	10326.6	10237.6	10339.3
32.5°	12491.9	12487.7	12034.3	11203.7	10771.5	10750.3	10678.3	10436.8	10229.1	10318.1
35°	13674.1	13627.5	13042.8	11881.7	11169.8	11038.5	10869.0	10559.6	10271.5	10296.9
37.5°	15631.8	15487.8	14678.4	12991.9	11763.1	11428.3	11178.3	10758.8	10364.7	10288.4
40°	17839.5	17657.3	16767.5	14513.2	12652.9	12114.8	11712.2	11042.7	10517.3	10326.6
42.5°	20458.2	20199.8	19242.1	16305.6	13780.1	13000.4	12394.4	11402.9	10741.9	10449.5
45°	23674.4	23331.2	21975.2	18326.8	15199.6	14161.4	13352.1	11949.5	11085.1	10686.8
47.5°	26924.5	27009.3	25081.3	20640.5	16903.1	15593.7	14551.3	12771.6	11585.1	11068.1
50°	30378.0	30437.4	28170.3	23204.1	18835.3	17212.4	15898.8	13691.1	12280.0	11610.5
52.5°	33073.0	33081.5	30975.5	25886.4	20848.1	18992.1	17352.2	14742.0	13085.1	12330.9
55°	34759.5	34738.3	32941.7	28424.6	23161.7	20860.8	18962.4	15936.9	14068.2	13178.4
57.5°	35984.1	35920.6	34297.7	30606.9	25627.9	23068.5	20784.5	17292.9	15229.3	14186.9
60°	36450.3	36412.1	35217.2	32492.5	28221.2	25509.3	22886.3	18809.9	16547.1	15377.6
62.5°	36628.2	36700.3	36119.7	34318.8	30996.7	28212.7	25195.7	20623.5	18030.2	16725.1
65°	37255.4	37386.7	37268.1	36708.7	34132.4	31378.1	28259.3	22780.4	19648.9	18170.0
67.5°	38496.9	38628.3	38679.1	39569.0	37963.0	35323.1	32081.5	25466.9	21543.0	19670.1
70°	38467.3	38429.1	39327.5	41844.5	42759.8	40785.1	37234.2	28772.1	23801.6	20915.9
72.5°	35013.8	34708.7	36831.6	41819.1	46751.4	46488.7	43526.7	33034.9	25750.8	21068.4
75°	26267.7	25454.2	29204.3	37687.6	47416.7	49726.1	47526.9	35679.1	25288.9	18615.0
77.5°	11233.4	10415.6	14835.2	27899.2	42437.7	46484.5	43857.3	31128.1	20187.1	12309.7
80°	2940.8	2936.5	4483.2	12648.7	28861.0	34327.3	30115.3	20102.3	11534.2	4398.4
82.5°	1216.1	1186.5	1648.4	4919.6	14102.1	19263.3	15720.8	8966.4	4165.4	1190.7
85°	453.4	449.2	800.9	1699.2	4974.7	7945.2	5750.2	2292.4	1038.2	580.5
87.5°	127.1	122.9	173.7	589.0	1211.9	1839.0	983.1	377.1	292.4	228.8
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°
9135.9	0°	9135.9	9135.9	9135.9	9135.9	9135.9	9135.9	9135.9	9135.9	9135.9	9135.9
9152.8	2.5°	9165.5	9186.7	9224.9	9254.5	9292.7	9335.0	9394.4	9432.5	9470.6	9496.1
9174.0	5°	9203.7	9250.3	9347.7	9445.2	9559.6	9665.5	9788.4	9877.4	9949.5	9970.6
9250.3	7.5°	9288.4	9364.7	9530.0	9695.2	9877.4	10051.2	10229.1	10381.7	10504.6	10551.2
9385.9	10°	9436.7	9538.4	9771.5	10004.5	10246.1	10513.0	10741.9	10962.2	11135.9	11208.0
9546.9	12.5°	9623.2	9750.3	10055.4	10377.4	10712.2	11080.8	11377.5	11648.7	11864.8	11962.2
9771.5	15°	9864.7	10030.0	10419.8	10852.0	11343.6	11856.3	12233.4	12534.3	12775.8	12894.5
10004.5	17.5°	10127.4	10347.8	10839.3	11491.9	12195.3	12869.0	13309.7	13530.1	13780.1	13894.5
10220.6	20°	10381.7	10652.9	11356.3	12305.5	13241.9	13958.1	14314.0	14373.3	14390.3	14403.0
10424.0	22.5°	10644.4	11008.8	12004.6	13330.9	14335.2	14831.0	14881.8	14627.6	14271.6	14106.4
10623.2	25°	10932.5	11415.6	12852.1	14462.3	15275.9	15335.2	14945.4	14326.7	13653.0	13343.6
10784.2	27.5°	11212.2	11886.0	13869.1	15542.8	15953.9	15432.7	14593.7	13716.5	12902.9	12576.7
10898.6	30°	11491.9	12424.1	14992.0	16487.8	16263.2	15191.1	14038.6	13059.7	12241.9	11898.7
11000.3	32.5°	11775.8	13051.2	16284.4	17170.0	16208.1	14678.4	13347.9	12322.4	11602.0	11241.9
11089.3	35°	12097.8	13822.5	17509.0	17542.9	15839.5	13924.2	12436.8	11441.0	10813.9	10525.7
11195.3	37.5°	12517.3	14801.3	18589.5	17636.1	15195.4	12818.2	11305.4	10398.6	9881.7	9750.3
11352.0	40°	13038.5	15979.3	19415.8	17487.8	14242.0	11474.9	10068.1	9343.5	9051.1	9080.8
11563.9	42.5°	13716.5	17297.1	19996.4	17106.5	12915.6	10089.3	8983.3	8661.3	8801.1	8919.8
11881.7	45°	14597.9	18665.8	20356.6	16458.1	11415.6	8915.5	8343.5	8419.7	8525.7	8538.4
12394.4	47.5°	15725.1	20051.5	20593.8	15479.3	9885.9	8089.2	7936.7	7953.6	7932.4	7843.5
13161.4	50°	17131.9	21399.0	20805.7	14182.6	8585.0	7572.3	7368.9	7309.5	7017.2	6729.0
14182.6	52.5°	18733.6	22636.3	20894.7	12572.4	7572.3	7140.0	6809.5	6436.6	5890.0	5801.0
15466.6	55°	20513.3	23780.4	20665.9	10593.5	6720.5	6584.9	6084.9	5635.8	5576.4	5500.2
17157.3	57.5°	22640.5	25013.5	20199.8	8385.8	5847.6	5936.6	5449.3	5500.2	5394.2	5275.6
19331.1	60°	24966.9	26288.9	19381.9	6373.1	4945.1	5127.3	5284.1	5279.8	5250.2	5152.7
21623.5	62.5°	27060.1	27127.9	17771.7	4881.5	4152.7	4500.1	4928.1	4923.9	4898.5	4843.4
24017.7	65°	28305.9	27000.8	15085.2	3843.3	3500.1	3983.2	4445.1	4478.9	4483.2	4478.9
25818.6	67.5°	28085.6	25513.5	11398.7	3059.4	2962.0	3457.7	3966.2	4012.8	4046.7	4055.2
26047.4	70°	25594.0	22246.4	7432.4	2440.8	2483.1	2995.9	3512.8	3559.4	3589.1	3623.0
22602.4	72.5°	19949.8	16356.4	4254.4	1974.6	2063.6	2597.5	3063.7	3118.7	3135.7	3199.2
15729.3	75°	12157.1	9618.9	2296.7	1555.1	1695.0	2220.4	2618.7	2682.3	2711.9	2788.2
7724.8	77.5°	5779.8	4165.4	1309.4	1211.9	1364.4	1813.6	2211.9	2284.0	2203.5	2245.8
2131.4	80°	1953.4	1546.7	826.3	923.8	1042.4	1415.3	1771.2	1843.3	1673.8	1665.3
707.6	82.5°	682.2	627.1	525.4	614.4	673.7	1012.7	1339.0	1432.2	1245.8	1241.6
317.8	85°	267.0	254.2	292.4	334.8	402.6	622.9	881.4	928.0	767.0	618.7
93.2	87.5°	55.1	59.3	72.0	76.3	122.9	216.1	317.8	389.8	309.3	262.7
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>
9135.9
9479.1
9979.1
10555.4
11212.2
11962.2
12886.0
13890.3
14436.9
14153.0
13390.2
12614.8
11936.8
11288.5
10589.3
9843.5
9182.5
9029.9
8623.1
7911.3
6767.2
5830.7
5512.9
5254.4
5118.8
4822.2
4478.9
4063.7
3639.9
3224.7
2796.7
2211.9
1648.4
1182.2
610.2
241.5
0.0

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