

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: P944705

Luminaire Tested: **GALN-SB9D-740-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944705
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
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-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 97162 lumens
Efficiency: N/A
Efficacy: 147.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B5 - U0 - G5

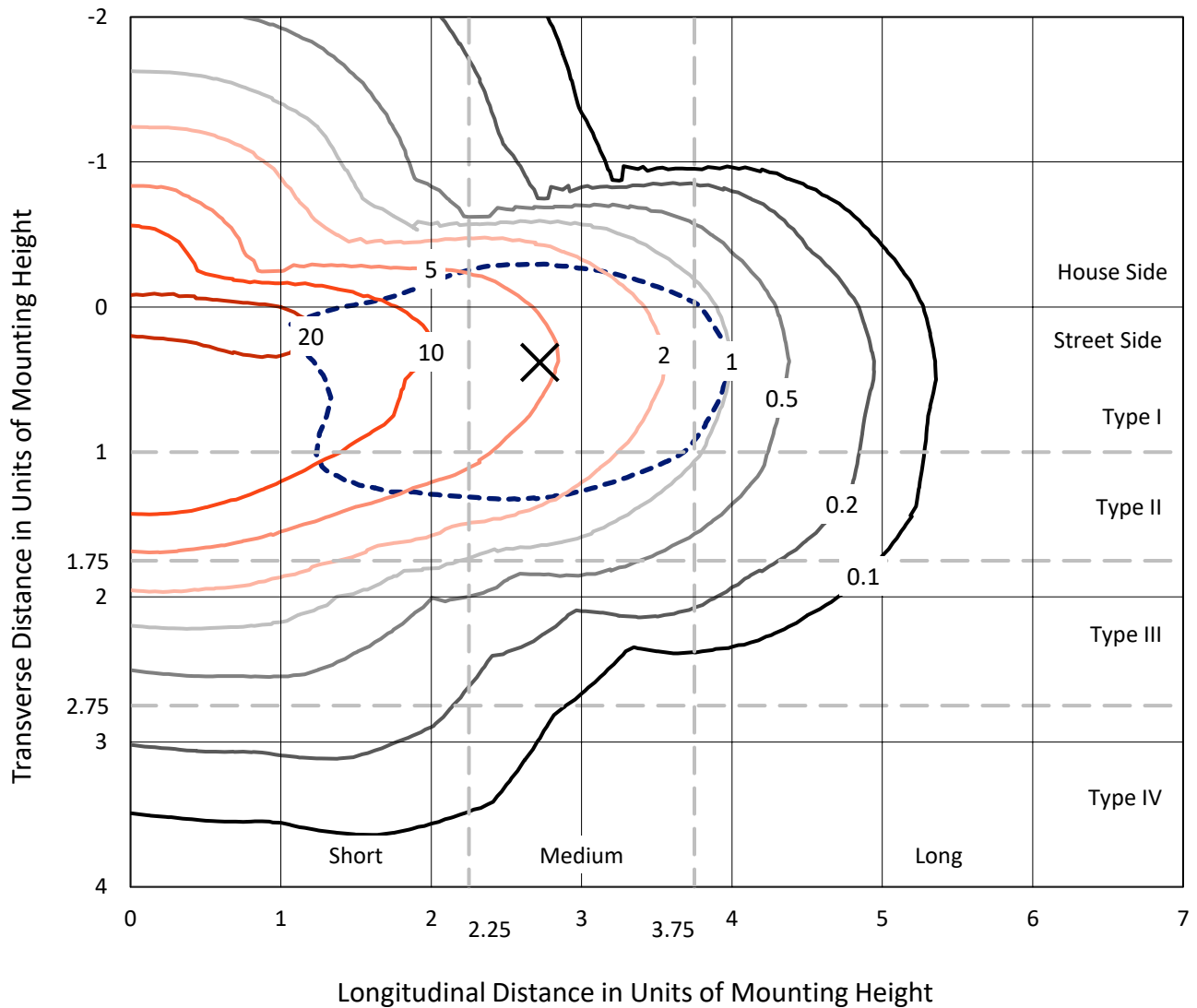
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

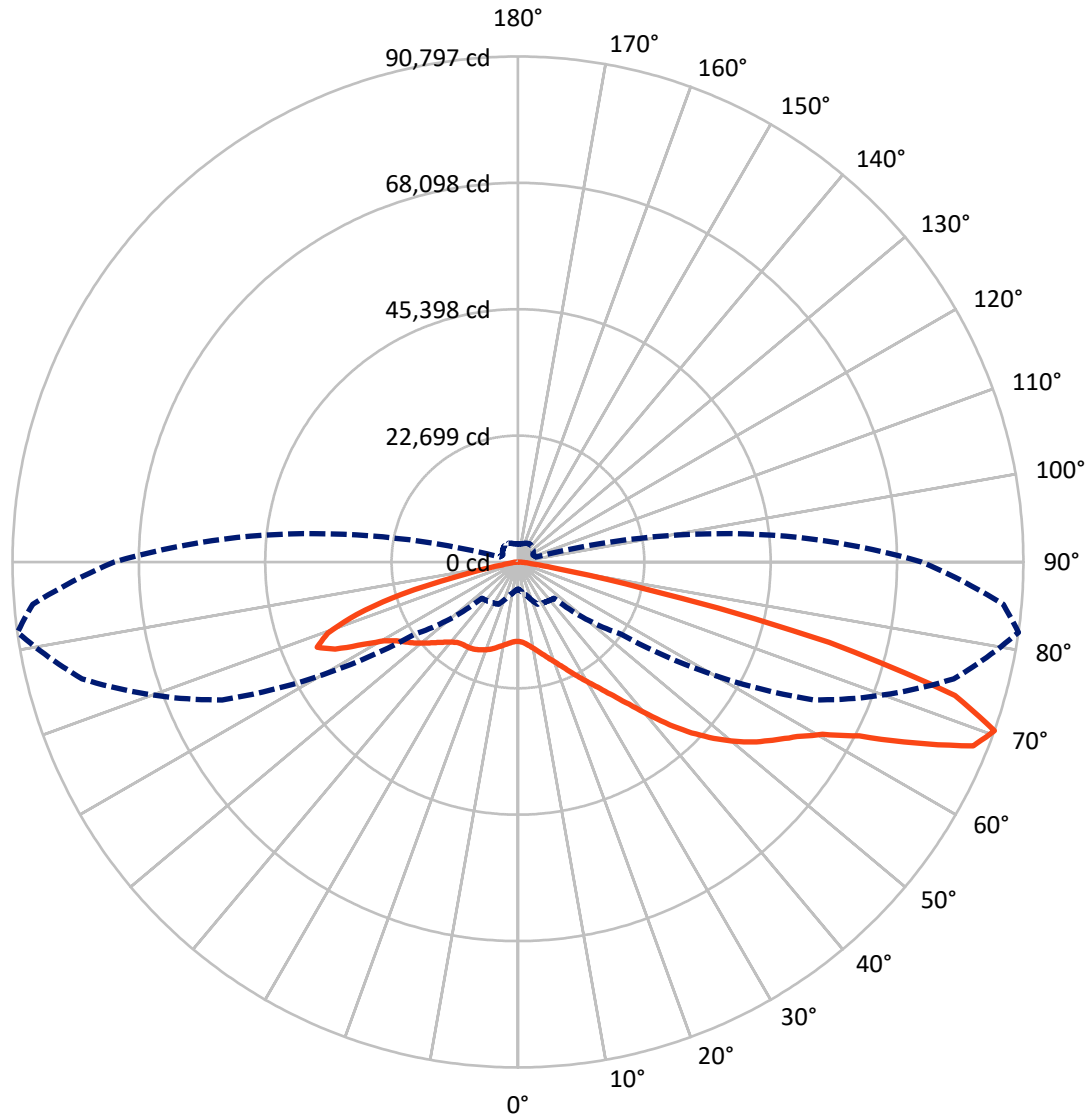
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23952.8	0.0	23952.8
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	73209.2	0.0	73209.2
	% Fixture	75.3	0.0	75.3
Total	Lumens	97162.0	0.0	97162.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1345.0	1.4
10°-20°	3864.2	4.0
20°-30°	6464.5	6.7
30°-40°	10099.2	10.4
40°-50°	16084.2	16.6
50°-60°	22383.1	23.0
60°-70°	23413.7	24.1
70°-80°	12237.3	12.6
80°-90°	1270.7	1.3
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°	97162.0	100.0
0°-180°	97162.0	100.0

Coefficient of Utilization



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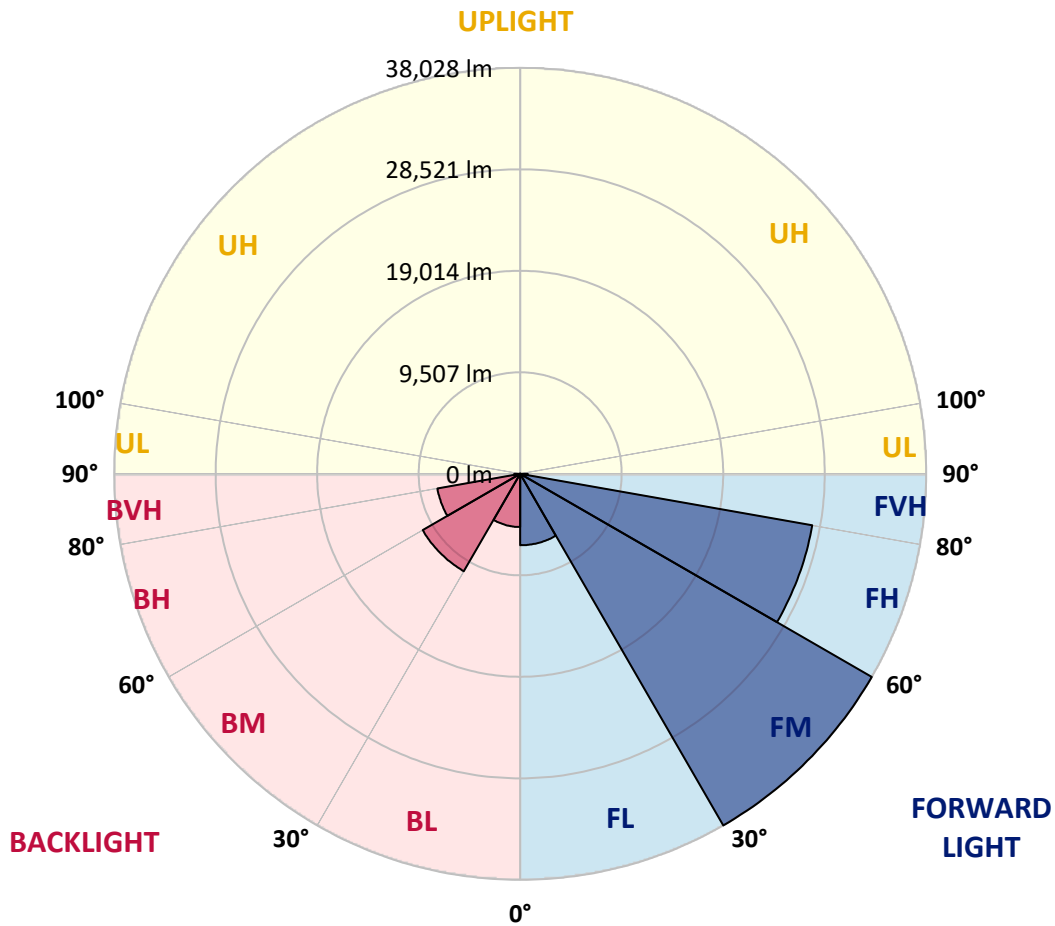
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6690.7	6.9			
FM (30°-60°)	38028.2	39.1			
FH (60°-80°)	27778.9	28.6			G5
FVH (80°-90°)	711.3	0.7			G4/750
BL (0°-30°)	4983.1	5.1	B4/5000		
BM (30°-60°)	10538.3	10.8	B5		
BH (60°-80°)	7872.1	8.1	B5		G5
BVH (80°-90°)	559.4	0.6			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	14245.2	14245.2	14245.2	14245.2	14245.2	14245.2	14245.2	14245.2	14245.2	14245.2
2.5°	14585.4	14667.9	14642.2	14616.4	14616.4	14580.3	14575.1	14523.6	14482.3	14415.3
5°	14771.0	14858.7	14848.4	14869.0	14936.0	14951.5	14967.0	14936.0	14853.5	14771.0
7.5°	14606.1	14704.0	14735.0	14858.7	15064.9	15250.5	15389.7	15446.4	15369.1	15250.5
10°	14049.2	14157.5	14265.8	14559.7	14925.7	15363.9	15735.2	15956.9	15941.4	15828.0
12.5°	12920.2	13033.6	13265.6	13837.9	14508.1	15281.5	15972.3	16436.3	16596.2	16513.7
15°	12017.9	12115.9	12291.2	12878.9	13750.2	14925.7	16060.0	16962.2	17369.5	17323.1
17.5°	11992.1	12033.4	12141.6	12420.1	13090.3	14368.9	15967.2	17477.8	18256.3	18251.1
20°	12445.8	12461.3	12523.2	12579.9	12961.4	13946.1	15730.0	17905.7	19251.3	19251.3
22.5°	13074.8	13064.5	13126.4	13074.8	13260.4	13910.0	15580.5	18282.1	20359.8	20442.3
25°	14018.3	13966.8	13951.3	13832.7	13868.8	14245.2	15745.5	18710.0	21674.5	21844.6
27.5°	15276.3	15193.8	15137.1	14863.8	14771.0	14936.0	16250.7	19225.6	23138.7	23432.6
30°	16915.8	16766.3	16683.8	16209.5	15874.4	15900.1	17013.8	19911.3	24670.0	25144.3
32.5°	19153.4	18921.4	18699.7	17921.2	17307.6	17106.6	17998.5	20859.9	26330.1	27088.0
35°	21659.0	21473.4	21236.3	20035.0	19091.5	18627.5	19328.7	22184.9	28273.8	29475.1
37.5°	24071.9	23912.1	24025.5	22406.6	21189.9	20514.5	21071.3	23963.6	30671.2	32444.7
40°	26567.3	26443.5	26459.0	24912.3	23494.5	22736.6	23185.1	26196.0	33419.2	35976.4
42.5°	29279.1	29186.3	28877.0	27505.6	25912.5	25206.2	25618.6	28773.9	36368.2	39997.8
45°	32315.8	32259.1	31970.4	30397.9	28572.8	27778.8	28335.7	31619.8	39332.7	43782.1
47.5°	34940.1	34986.5	34950.4	33625.4	31733.3	30568.1	31233.2	34589.5	42091.0	47339.5
50°	36203.2	36445.6	36801.3	36388.8	35213.3	34027.5	34156.4	37456.1	44720.4	50675.3
52.5°	35543.3	36002.2	36971.4	37631.4	38085.1	37837.6	37492.2	40302.0	47195.2	53686.2
55°	33084.0	33728.5	35337.1	36930.2	39245.1	41044.4	41498.1	43457.3	49608.0	56336.2
57.5°	28603.8	29650.4	31094.0	34316.3	38214.0	42596.3	46169.2	47834.5	52165.2	59166.7
60°	20921.8	22324.1	24118.3	28913.1	34605.0	41766.2	50144.2	54557.5	55800.0	62832.4
62.5°	13389.3	14255.5	15905.3	20421.7	26964.2	37512.8	51361.0	62961.3	61961.1	68843.9
65°	9166.8	9723.6	11234.2	13770.8	17431.4	27923.2	48102.6	69261.5	71746.5	78371.6
67.5°	6661.1	7083.9	8372.8	10594.9	11358.0	16524.0	37327.2	68972.8	81258.8	88188.0
70°	4856.7	5155.7	6238.4	8372.8	8738.9	9192.6	22612.8	58630.5	81052.6	90796.8
72.5°	3598.7	3804.9	4531.8	6496.2	7073.6	6207.4	11193.0	42611.8	69648.2	82124.9
75°	2603.6	2758.3	3294.5	4970.1	5660.9	4727.8	5583.6	24902.0	48582.0	57769.5
77.5°	1990.1	2108.7	2459.3	3639.9	4531.8	3547.1	3464.6	11455.9	23035.6	23149.0
80°	1598.3	1675.6	1866.4	2562.4	3474.9	2655.2	2258.2	4624.7	7279.8	6161.0
82.5°	1175.5	1304.4	1577.6	1799.3	2485.0	1830.3	1376.6	2335.5	2768.6	2381.9
85°	670.2	757.9	953.8	1288.9	1588.0	1118.8	788.8	1036.3	1288.9	1056.9
87.5°	237.2	309.3	335.1	505.3	690.9	464.0	304.2	299.0	422.8	314.5
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°
14245.2	0°	14245.2	14245.2	14245.2	14245.2	14245.2	14245.2	14245.2	14245.2	14245.2	14245.2
14399.8	2.5°	14348.3	14322.5	14219.4	14080.2	13935.8	13796.6	13750.2	13652.3	13585.2	13549.1
14735.0	5°	14637.0	14554.5	14312.2	14002.8	13678.0	13327.5	13080.0	12853.1	12688.1	12533.5
15193.8	7.5°	15049.5	14905.1	14487.5	13946.1	13368.7	12786.1	12353.0	12023.1	11801.4	11657.0
15730.0	10°	15528.9	15307.2	14667.9	13858.5	12966.6	12131.3	11620.9	11337.4	11198.2	11120.8
16343.5	12.5°	16080.6	15766.1	14853.5	13657.4	12353.0	11399.2	11048.6	10966.1	10971.3	10976.5
17116.9	15°	16761.1	16322.9	15003.1	13219.2	11553.9	10837.3	10775.4	10909.4	11048.6	11115.7
17993.3	17.5°	17529.3	16910.7	15028.8	12497.4	10770.2	10476.4	10672.3	10961.0	11172.4	11265.2
18972.9	20°	18354.2	17508.7	14843.2	11476.6	10125.8	10182.5	10533.1	10904.3	11136.3	11254.9
20091.7	22.5°	19297.7	18148.0	14399.8	10404.2	9599.9	9862.8	10275.3	10636.2	10878.5	10997.1
21406.4	25°	20375.3	18864.7	13703.8	9501.9	9146.2	9501.9	9914.4	10213.4	10409.3	10517.6
22875.8	27.5°	21571.4	19612.2	12775.8	8785.3	8749.2	9130.7	9471.0	9703.0	9806.1	9888.6
24438.0	30°	22772.7	20292.8	11651.9	8243.9	8403.8	8764.7	9007.0	9110.1	9141.0	9156.5
26180.6	32.5°	24071.9	20880.5	10471.2	7795.4	8073.8	8408.9	8553.3	8599.7	8455.3	8357.4
28294.4	35°	25644.4	21509.5	9316.3	7439.7	7749.0	8037.7	8084.1	8042.9	7872.7	7671.7
30944.4	37.5°	27588.1	22293.2	8393.5	7187.0	7444.8	7635.6	7578.9	7568.5	7584.0	7346.9
34130.7	40°	29970.0	23314.0	7718.1	6991.1	7197.3	7238.6	7078.8	7166.4	7243.7	6882.8
37626.2	42.5°	32614.9	24546.2	7290.1	6857.1	6991.1	6893.2	6645.7	6743.6	6733.3	6259.0
41137.2	45°	35311.3	25886.7	7140.6	6759.1	6800.4	6604.4	6331.2	6357.0	6140.4	5712.5
44503.9	47.5°	37992.3	27325.1	7233.4	6676.6	6563.2	6341.5	6130.1	6016.7	5697.0	5377.4
47731.4	50°	40621.7	28835.8	7573.7	6511.6	6238.4	6109.5	5954.8	5753.7	5413.5	5140.2
50783.5	52.5°	43060.3	30356.7	7955.2	6238.4	5831.1	5908.4	5810.5	5578.5	5243.3	4964.9
53670.7	55°	45370.0	31877.6	8104.7	5862.0	5449.6	5733.1	5676.4	5248.5	4846.3	4619.5
56691.9	57.5°	47886.0	33707.9	7939.8	5382.5	5140.2	5532.1	5315.5	4841.2	4609.2	4439.0
60625.7	60°	51371.3	36579.6	7584.0	4789.6	4846.3	5233.0	4861.8	4665.9	4413.3	4222.5
66523.8	62.5°	57161.1	41936.4	7011.7	4201.9	4500.9	4789.6	4645.3	4449.4	4191.6	4006.0
76608.4	65°	65719.5	49381.2	5934.2	3743.0	4114.2	4356.6	4413.3	4217.4	3949.3	3753.3
85445.2	67.5°	72937.5	54052.2	4490.6	3361.5	3717.3	4006.0	4165.8	3975.0	3691.5	3500.7
87512.6	70°	72540.5	50659.8	3428.5	2985.1	3366.7	3660.5	3866.8	3717.3	3413.1	3232.6
79490.4	72.5°	64430.6	42379.8	2773.8	2603.6	3010.9	3299.6	3547.1	3433.7	3124.3	2949.1
58233.5	75°	47334.4	30083.4	2216.9	2216.9	2567.5	2923.3	3196.5	3124.3	2840.8	2717.0
24448.3	77.5°	19952.5	12621.1	1737.5	1840.6	2134.5	2510.8	2851.1	2876.9	2629.4	2784.1
6465.2	80°	5305.2	3480.1	1325.0	1448.7	1675.6	2072.6	2479.9	2469.6	2201.5	2057.1
2402.6	82.5°	2021.0	1371.4	943.5	1020.8	1211.6	1588.0	1964.3	2026.2	1758.1	1520.9
943.5	85°	778.5	587.7	582.6	613.5	706.3	1051.8	1484.8	1536.4	1325.0	1123.9
262.9	87.5°	201.1	175.3	216.5	206.2	324.8	562.0	850.7	881.6	809.4	469.2
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°
14245.2
13590.4
12595.3
11687.9
11141.4
10986.8
11110.5
11285.8
11285.8
11028.0
10548.5
9919.5
9192.6
8388.3
7682.0
7362.3
6893.2
6253.8
5728.0
5377.4
5119.6
4970.1
4598.9
4423.6
4212.2
4006.0
3763.7
3505.9
3248.1
2949.1
2681.0
2526.3
1912.8
1520.9
1160.0
670.2
0.0

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