

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: P957681

Luminaire Tested: **GALN-SB9D-950-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957681
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-950-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64352 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

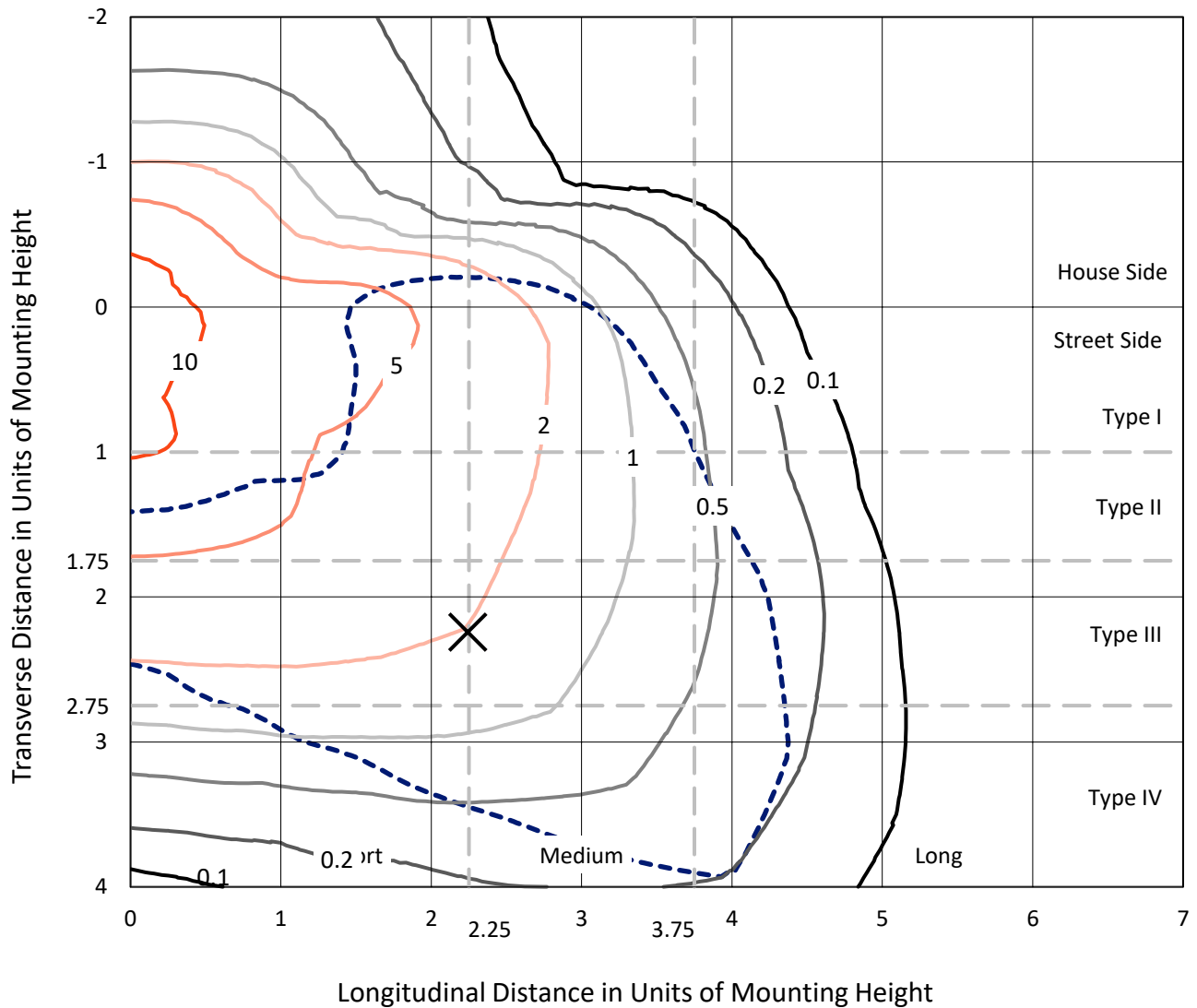
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

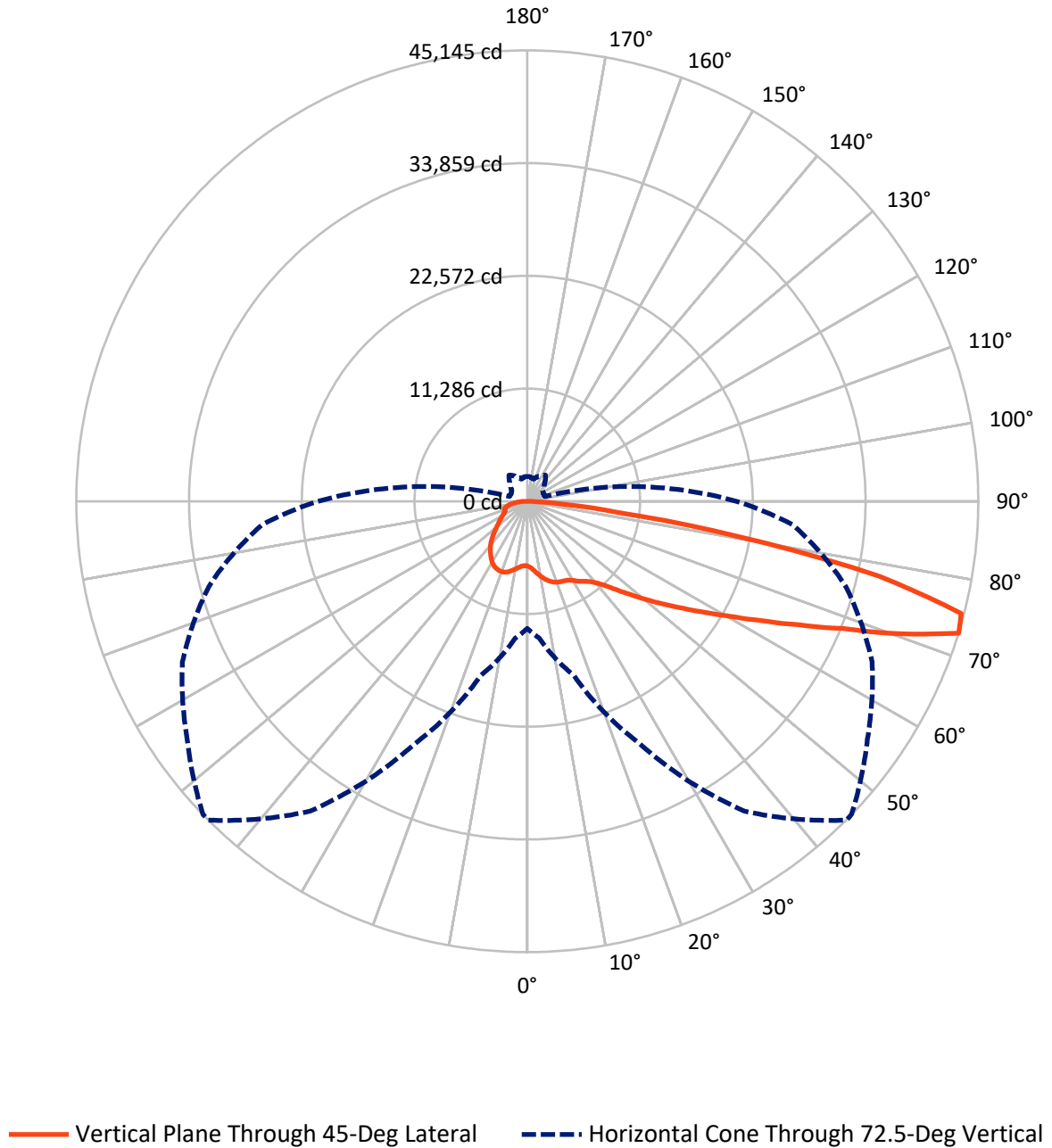
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14547.8	0.0	14547.8
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	49804.2	0.0	49804.2
	% Fixture	77.4	0.0	77.4
Total	Lumens	64352.0	0.0	64352.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	660.7	1.0
10°-20°	2203.0	3.4
20°-30°	3832.3	6.0
30°-40°	5493.7	8.5
40°-50°	7735.5	12.0
50°-60°	11848.5	18.4
60°-70°	17164.4	26.7
70°-80°	13706.8	21.3
80°-90°	1707.1	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°	64352.0	100.0
0°-180°	64352.0	100.0

Coefficient of Utilization



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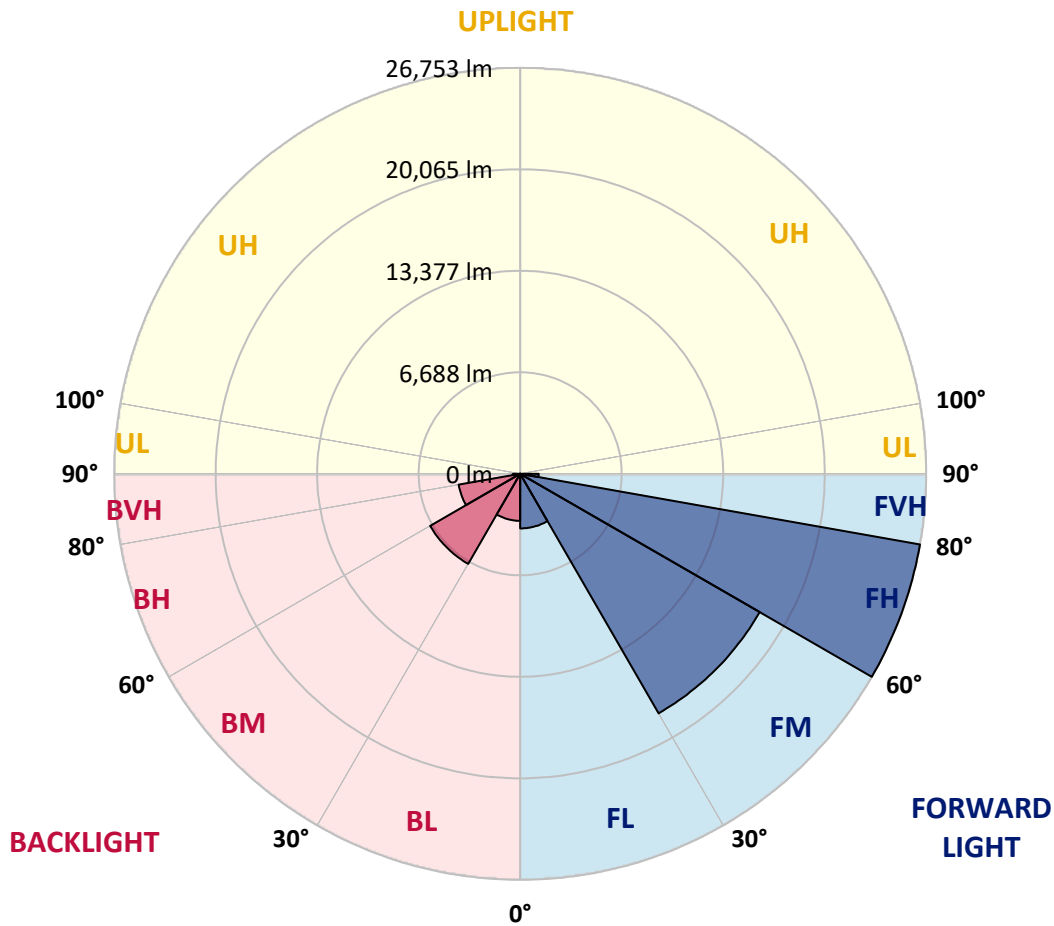
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3598.7	5.6			
FM (30°-60°)	18227.8	28.3			
FH (60°-80°)	26753.0	41.6			G5
FVH (80°-90°)	1224.7	1.9			G5
BL (0°-30°)	3097.3	4.8	B4/5000		
BM (30°-60°)	6849.9	10.6	B4/8500		
BH (60°-80°)	4118.1	6.4	B4/5000		G4/5000
BVH (80°-90°)	482.4	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	6491.9	6491.9	6491.9	6491.9	6491.9	6491.9	6491.9	6491.9	6491.9	6491.9
2.5°	6746.1	6790.2	6749.5	6712.2	6695.3	6651.2	6647.8	6620.7	6603.7	6556.3
5°	7217.3	7275.0	7207.2	7132.6	7064.8	6956.3	6942.7	6864.8	6776.6	6674.9
7.5°	7749.6	7800.4	7722.4	7610.6	7491.9	7312.2	7308.9	7166.5	7027.5	6854.6
10°	8214.0	8281.8	8176.7	8024.1	7875.0	7671.6	7647.9	7485.1	7308.9	7085.1
12.5°	8624.2	8671.6	8569.9	8383.5	8210.6	8007.2	7976.7	7797.0	7600.4	7346.1
15°	8949.6	9010.6	8875.0	8675.0	8492.0	8292.0	8264.8	8102.1	7905.5	7637.7
17.5°	9163.2	9214.0	9075.0	8851.3	8675.0	8508.9	8488.6	8353.0	8180.1	7908.9
20°	9244.6	9298.8	9153.0	8925.9	8763.2	8634.3	8624.2	8525.9	8407.2	8159.7
22.5°	9325.9	9376.8	9186.9	8949.6	8807.2	8725.9	8722.5	8658.1	8610.6	8407.2
25°	9654.7	9668.3	9414.1	9071.7	8868.3	8797.1	8793.7	8790.3	8810.6	8651.3
27.5°	9939.5	9936.1	9719.2	9397.1	9081.8	8932.7	8929.3	8963.2	9027.6	8895.4
30°	10356.5	10319.2	10061.5	9725.9	9437.8	9207.3	9186.9	9156.4	9207.3	9102.2
32.5°	11241.3	11122.6	10705.6	10109.0	9732.7	9556.4	9529.3	9339.5	9359.8	9295.4
35°	12509.1	12353.2	11797.2	10834.5	10098.8	9848.0	9834.4	9593.7	9553.0	9495.4
37.5°	14017.7	13824.5	13177.0	11885.4	10729.4	10187.0	10166.6	9949.7	9783.6	9722.5
40°	15533.0	15288.9	14753.3	13166.8	11658.2	10753.1	10688.7	10359.9	10170.0	10068.3
42.5°	17004.3	16800.9	16343.2	14604.2	12804.1	11580.3	11437.9	10875.1	10732.8	10637.8
45°	18306.0	18123.0	17787.4	16139.8	14146.5	12705.7	12566.8	11648.1	11604.0	11604.0
47.5°	19363.7	19323.0	18967.1	17706.0	15729.6	13987.2	13746.5	12722.7	12841.3	13024.4
50°	20536.7	20424.8	20045.1	19248.5	17590.7	15455.0	15258.4	14041.4	14485.5	14987.2
52.5°	21614.7	21675.7	21252.0	20855.3	19692.6	17092.4	16746.6	15597.4	16556.8	17387.3
55°	22723.2	22726.6	22608.0	22553.7	21896.1	18902.7	18523.0	17468.7	18994.2	20024.8
57.5°	23764.0	23770.7	23947.0	24425.0	24452.1	20990.9	20560.4	19767.1	21702.8	22753.7
60°	24692.8	24740.3	25221.7	26340.4	26699.7	23384.3	22977.5	22482.5	24503.0	25560.7
62.5°	25004.7	25177.6	26248.8	27838.7	28920.2	26320.0	25920.0	25625.1	27445.5	28428.6
65°	24475.9	24872.5	26943.8	29076.1	31205.0	29808.3	29411.7	29089.7	30503.3	31428.8
67.5°	23177.5	23689.4	26903.1	30374.5	33978.0	34005.2	33635.7	32879.7	33781.4	34137.4
70°	19757.0	20523.1	24533.5	30859.2	37161.3	39744.4	39388.5	37442.6	37052.8	35330.7
72.5°	12729.5	13760.0	18065.3	26869.2	37869.8	45144.7	45124.4	41561.5	38086.7	33011.9
75°	4644.3	5274.9	8393.7	16865.3	31788.1	44870.1	45002.3	40856.4	34767.9	25499.6
77.5°	1691.6	1850.9	2739.1	6481.7	19550.2	36001.9	36276.5	32662.7	24747.1	12797.3
80°	888.2	976.3	1403.5	2515.4	8376.7	21380.8	21811.3	19411.2	11631.1	3854.4
82.5°	491.6	532.2	786.5	1366.2	3773.1	9142.9	9400.5	7668.2	4091.7	1634.0
85°	264.4	281.4	369.5	745.8	1844.2	3169.7	3240.8	2291.6	1630.6	959.4
87.5°	78.0	94.9	122.0	237.3	722.1	711.9	728.9	454.3	644.1	484.8
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°
6491.9	0°	6491.9	6491.9	6491.9	6491.9	6491.9	6491.9	6491.9	6491.9	6491.9	6491.9
6542.7	2.5°	6522.4	6512.2	6474.9	6458.0	6437.6	6434.2	6451.2	6454.6	6458.0	6461.4
6617.3	5°	6583.4	6549.5	6515.6	6495.3	6502.0	6505.4	6539.3	6563.1	6580.0	6593.6
6756.3	7.5°	6702.0	6674.9	6617.3	6613.9	6624.1	6654.6	6698.7	6752.9	6783.4	6807.1
6936.0	10°	6878.3	6827.5	6759.7	6769.8	6790.2	6834.3	6925.8	6969.9	7020.7	7064.8
7156.3	12.5°	7058.0	7013.9	6936.0	6942.7	6976.6	7054.6	7142.7	7197.0	7230.9	7264.8
7393.6	15°	7291.9	7213.9	7129.2	7129.2	7190.2	7275.0	7315.6	7359.7	7380.0	7417.3
7647.9	17.5°	7532.6	7430.9	7319.0	7312.2	7386.8	7427.5	7451.2	7458.0	7464.8	7505.5
7895.3	20°	7773.3	7661.4	7502.1	7488.5	7505.5	7498.7	7495.3	7488.5	7498.7	7549.5
8149.6	22.5°	8010.6	7881.8	7661.4	7600.4	7552.9	7488.5	7485.1	7481.7	7488.5	7539.4
8424.2	25°	8288.6	8132.6	7837.7	7654.6	7495.3	7407.2	7417.3	7420.7	7427.5	7468.2
8708.9	27.5°	8590.3	8417.4	8000.4	7637.7	7349.5	7288.5	7271.6	7281.7	7305.5	7369.9
8993.7	30°	8892.0	8688.6	8149.6	7569.9	7166.5	7081.7	7027.5	7051.2	7125.8	7190.2
9241.2	32.5°	9166.6	8963.2	8268.2	7420.7	6932.6	6800.4	6729.2	6759.7	6834.3	6858.0
9515.8	35°	9488.6	9258.1	8319.1	7183.4	6678.3	6474.9	6380.0	6335.9	6373.2	6349.5
9837.8	37.5°	9848.0	9607.3	8312.3	6871.5	6380.0	6146.1	6013.9	5847.8	5769.8	5688.4
10312.4	40°	10380.2	10034.4	8230.9	6495.3	6010.5	5796.9	5559.6	5278.2	5102.0	4942.6
11078.5	42.5°	11105.7	10627.7	8081.8	6081.7	5593.5	5393.5	5071.5	4742.6	4464.6	4200.2
12241.3	45°	12187.1	11404.0	7895.3	5641.0	5142.6	4946.0	4596.9	4227.3	3912.1	3573.1
13892.3	47.5°	13746.5	12448.1	7719.0	5139.3	4668.0	4488.4	4173.1	3830.7	3457.8	3129.0
16278.8	50°	15889.0	13946.5	7556.3	4651.1	4200.2	4064.6	3813.8	3464.6	3088.3	2823.9
19075.6	52.5°	18614.5	15983.9	7488.5	4179.9	3762.9	3712.1	3512.0	3186.6	2830.7	2606.9
22336.8	55°	21743.5	18421.3	7488.5	3729.0	3379.8	3396.8	3257.8	2956.1	2647.6	2447.6
25699.6	57.5°	24936.9	20889.2	7352.9	3312.0	3054.4	3125.6	3037.4	2773.0	2495.0	2288.3
29235.4	60°	27879.4	22957.1	6803.7	2932.4	2766.2	2878.1	2820.5	2593.4	2254.4	2081.5
32191.5	62.5°	30140.6	24123.3	5746.1	2630.6	2528.9	2657.8	2627.3	2356.1	2210.3	2139.1
34618.8	65°	31272.8	23933.5	4393.4	2362.8	2328.9	2528.9	2464.5	2454.4	2339.1	2257.7
35408.6	67.5°	30577.9	22299.5	3186.6	2166.2	2213.7	2410.3	2657.8	2698.4	2484.9	2325.5
33184.8	70°	27530.3	19343.4	2373.0	1979.8	2067.9	2413.7	3030.7	2823.9	2437.4	2251.0
26614.9	72.5°	20943.5	14424.5	1840.8	1783.1	1878.1	2430.6	3196.8	2766.2	2301.8	2488.3
16580.5	75°	11976.9	7919.1	1478.0	1542.5	1640.8	2271.3	3112.0	2617.1	2196.7	2284.9
6569.8	77.5°	4566.3	3044.2	1220.4	1305.2	1318.7	1983.2	2976.4	2606.9	2091.6	2040.8
1969.6	80°	1583.1	1189.9	1010.2	1037.3	1020.4	1762.8	2854.4	2267.9	1712.0	1532.3
813.6	82.5°	647.5	593.3	800.0	766.1	725.5	1369.6	2305.2	1854.3	1400.1	1237.4
393.2	85°	281.4	376.3	528.8	464.4	420.4	949.2	1847.6	1569.6	1183.1	1020.4
128.8	87.5°	57.6	142.4	223.7	210.2	217.0	633.9	1311.9	1115.3	837.3	627.2
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

<u>180°</u>
6491.9
6474.9
6600.3
6813.9
7054.6
7278.3
7430.9
7519.0
7569.9
7573.3
7522.4
7434.3
7261.4
6942.7
6424.1
5739.3
4952.8
4176.5
3532.4
3091.7
2806.9
2590.0
2427.2
2254.4
2054.3
2115.4
2230.6
2298.4
2220.5
2467.9
2284.9
1861.1
1481.4
1223.8
1017.0
491.6
0.0

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