

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: P954718

Luminaire Tested: **GALN-SB7D-850-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954718
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7D-850-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 71063 lumens
Efficiency: N/A
Efficacy: 138.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

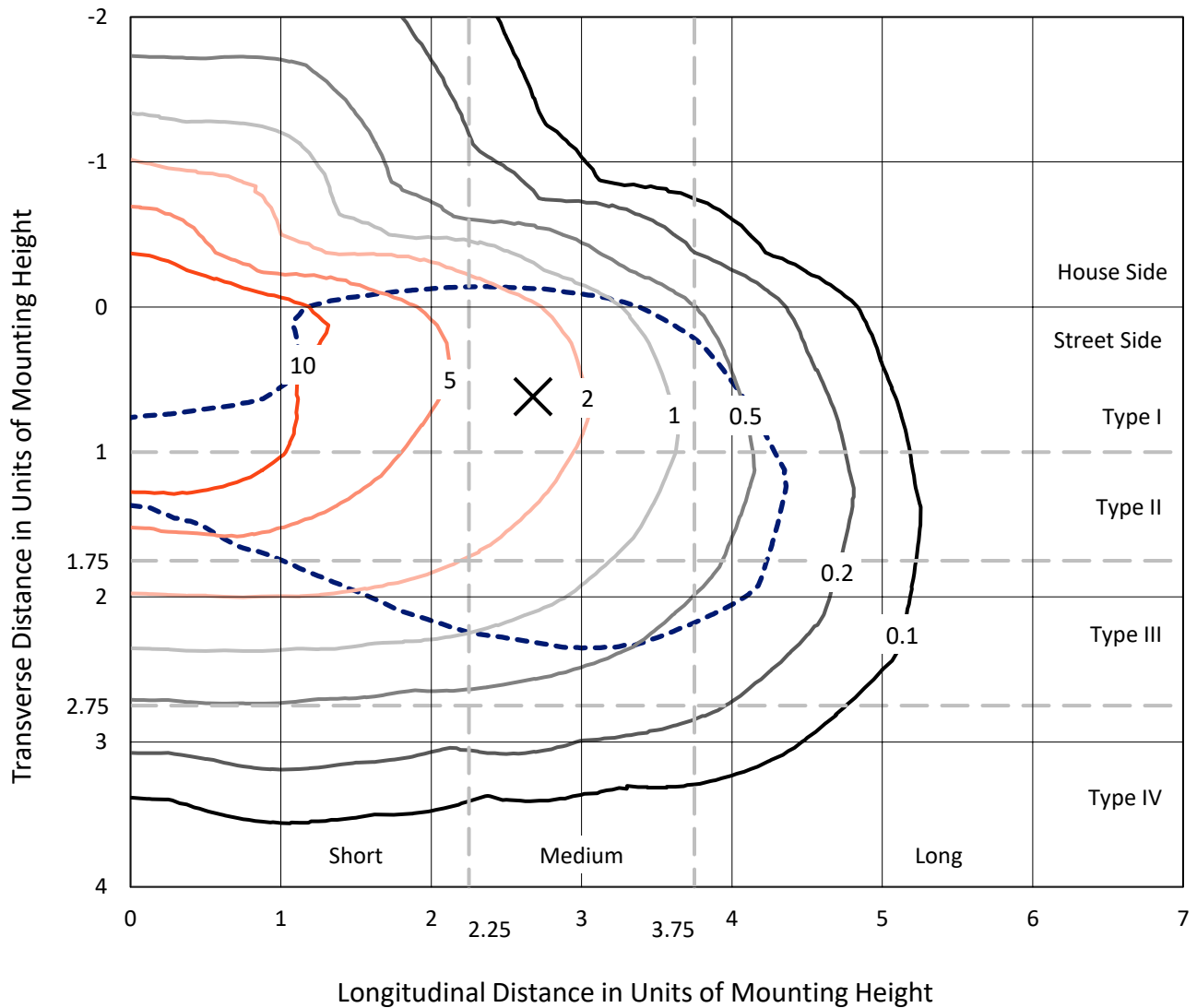
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

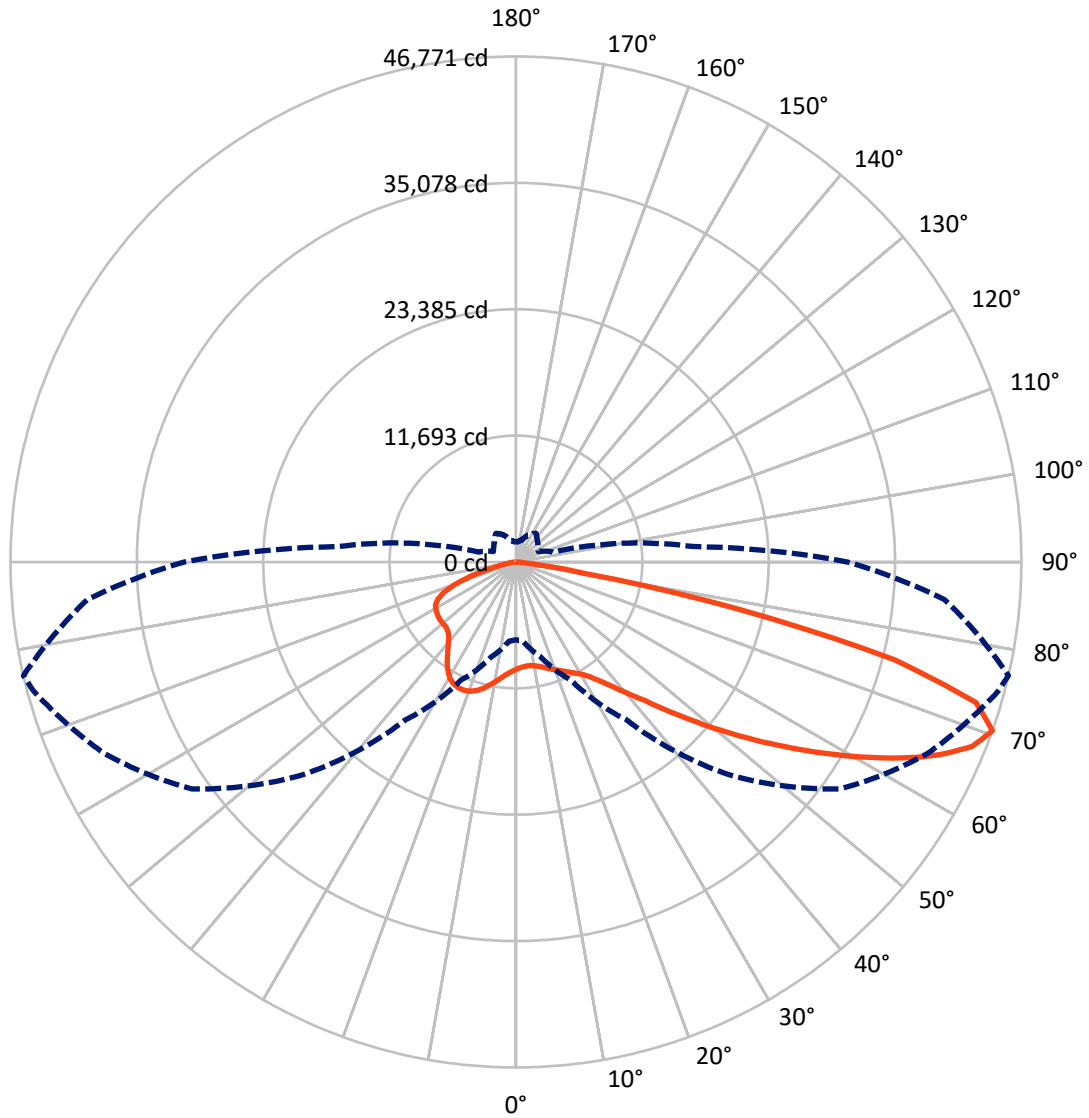
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15561.7	0.0	15561.7
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	55501.3	0.0	55501.3
	% Fixture	78.1	0.0	78.1
Total	Lumens	71063.0	0.0	71063.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	945.5	1.3
10°-20°	2728.9	3.8
20°-30°	4666.8	6.6
30°-40°	7504.6	10.6
40°-50°	11716.7	16.5
50°-60°	15650.7	22.0
60°-70°	16681.2	23.5
70°-80°	10268.8	14.5
80°-90°	899.8	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°	71063.0	100.0
0°-180°	71063.0	100.0



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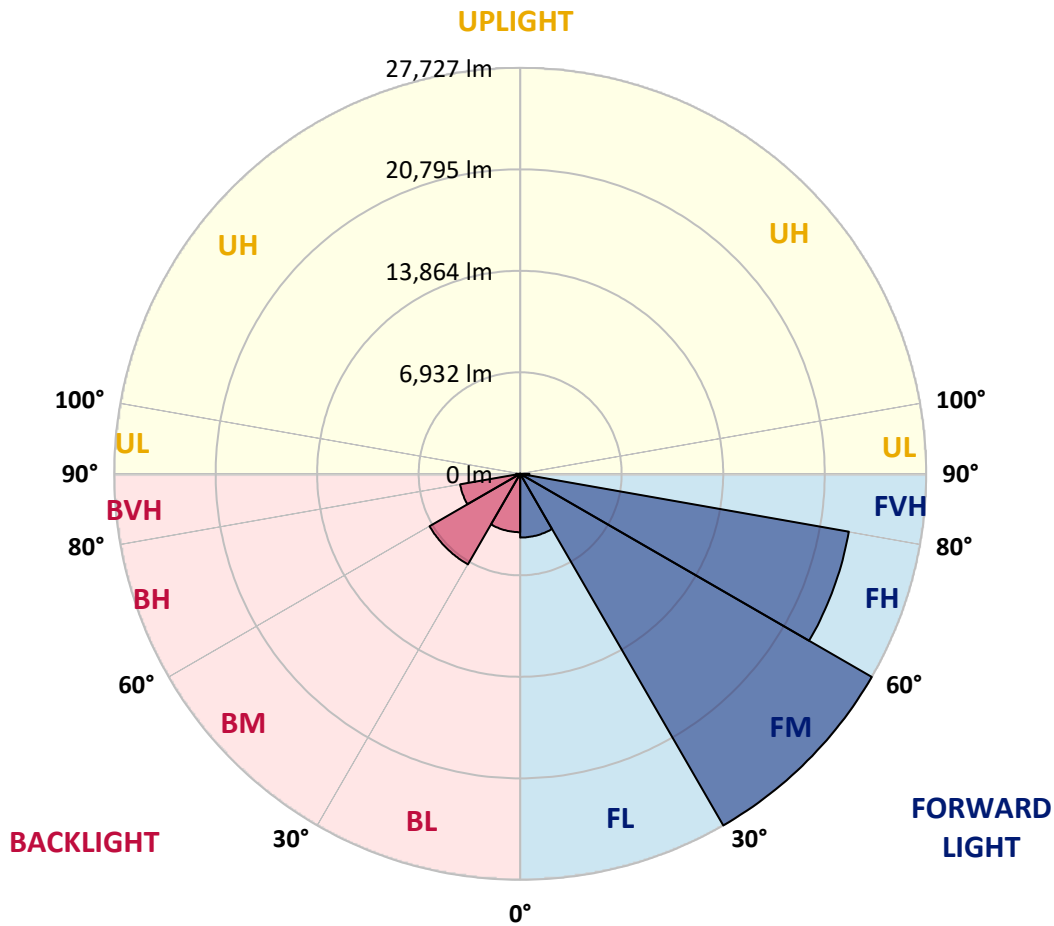
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4353.8	6.1			
FM (30°-60°)	27727.2	39.0			
FH (60°-80°)	22791.1	32.1			G5
FVH (80°-90°)	629.2	0.9			G4/750
BL (0°-30°)	3987.4	5.6	B4/5000		
BM (30°-60°)	7144.7	10.1	B4/8500		
BH (60°-80°)	4159.0	5.9	B4/5000		G4/5000
BVH (80°-90°)	270.6	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	9913.9	9913.9	9913.9	9913.9	9913.9	9913.9	9913.9	9913.9	9913.9	9913.9
2.5°	9138.7	9135.1	9182.4	9197.0	9284.3	9346.2	9462.6	9586.4	9746.5	9764.7
5°	8611.0	8611.0	8665.6	8723.8	8836.7	8960.4	9138.7	9353.5	9630.1	9673.7
7.5°	8163.3	8192.5	8239.8	8352.6	8483.6	8662.0	8934.9	9240.6	9604.6	9673.7
10°	7803.0	7835.8	7894.0	7985.0	8181.5	8429.0	8785.7	9178.8	9666.5	9775.6
12.5°	7690.2	7723.0	7755.7	7824.9	8006.9	8298.0	8723.8	9207.9	9815.7	9924.9
15°	7952.3	7992.3	7966.8	7948.6	8043.2	8308.9	8752.9	9313.4	10001.3	10157.8
17.5°	8556.4	8571.0	8512.7	8341.7	8327.1	8469.1	8891.2	9459.0	10234.2	10405.3
20°	9531.8	9506.3	9386.2	9047.7	8854.8	8825.7	9127.8	9677.4	10474.4	10656.4
22.5°	10856.6	10827.4	10587.2	10052.2	9622.8	9338.9	9469.9	9961.2	10743.7	10947.5
25°	12508.9	12468.9	12115.8	11387.9	10721.9	10019.5	9935.8	10336.1	11074.9	11264.2
27.5°	14437.8	14405.1	14022.9	13062.1	12101.3	10951.2	10514.5	10776.5	11420.7	11635.4
30°	16512.3	16606.9	15930.0	14896.4	13680.8	12166.8	11293.3	11318.8	11868.3	12061.2
32.5°	18950.8	19114.5	18299.3	16989.1	15329.5	13487.9	12276.0	12075.8	12519.8	12679.9
35°	21367.4	21553.0	20876.0	19427.5	17516.8	15045.6	13302.3	12945.6	13386.0	13560.7
37.5°	23456.4	23703.9	23354.5	22095.3	19857.0	16923.6	14641.6	13968.3	14452.4	14670.7
40°	25105.1	25483.6	25458.1	24672.0	22615.7	19201.9	16341.3	15231.2	15777.1	16013.7
42.5°	26444.4	26772.0	27055.9	27015.8	25494.5	21789.6	18339.3	16872.6	17287.5	17560.5
45°	27368.9	27718.3	28329.7	28988.4	28264.2	24559.2	20628.6	18819.7	19198.2	19609.5
47.5°	28195.0	28591.7	29385.1	30429.7	30615.3	27339.8	23136.2	21087.1	21432.9	21858.7
50°	28267.8	28609.9	29840.1	31321.3	32285.8	30011.1	25829.4	23631.1	23955.0	24410.0
52.5°	26510.0	27048.6	29195.9	31295.9	33053.7	32245.8	28504.4	26277.0	26641.0	27186.9
55°	20577.6	21367.4	27307.0	30320.5	32780.8	33690.6	31048.4	29090.3	29556.2	30127.6
57.5°	17724.3	18070.0	21676.7	28544.4	31536.1	34065.5	33195.7	31932.8	32682.5	33308.5
60°	15930.0	16217.5	18350.2	25782.1	29898.3	33472.3	34855.3	34582.3	35878.0	36624.1
62.5°	14008.3	14281.3	16221.2	21527.5	27802.0	32486.0	35903.4	37028.0	39153.5	39968.7
65°	12101.3	12334.2	14194.0	18088.2	25137.9	31499.7	36445.7	39142.6	42185.2	43029.5
67.5°	9975.8	10168.7	11926.6	15260.3	21898.7	30149.4	36715.0	40805.8	44823.8	45548.1
70°	7198.9	7348.1	9164.2	12068.5	17833.4	27827.4	36605.9	41985.0	46192.2	46770.9
72.5°	3402.9	3537.6	5670.3	7835.8	12596.2	23307.2	34396.7	41049.7	44802.0	44514.4
75°	1816.1	1932.6	3257.3	4298.2	6653.0	15977.3	28147.7	35361.2	37621.3	36223.7
77.5°	1230.1	1321.1	2016.3	2580.4	3039.0	7584.7	18091.8	24482.8	23554.7	21247.3
80°	975.4	1070.0	1652.3	1746.9	1470.3	2740.5	7475.5	11333.3	8141.5	6511.0
82.5°	749.7	855.3	1390.3	1266.5	800.7	1124.6	2176.4	3584.9	2085.4	1586.8
85°	458.6	571.4	1091.8	808.0	451.3	513.2	738.8	997.2	636.9	531.4
87.5°	232.9	327.6	553.2	294.8	203.8	120.1	196.5	196.5	167.4	145.6
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°
9913.9	0°	9913.9	9913.9	9913.9	9913.9	9913.9	9913.9	9913.9	9913.9	9913.9	9913.9
9863.0	2.5°	9950.3	10023.1	10146.9	10263.3	10354.3	10441.7	10529.0	10576.3	10590.9	10649.1
9917.6	5°	10066.8	10201.5	10441.7	10667.3	10809.2	10896.6	10958.5	10994.9	11002.1	11020.3
10066.8	7.5°	10281.5	10496.3	10831.1	11056.7	11162.3	11155.0	11129.5	11038.5	11002.1	10969.4
10285.2	10°	10583.6	10867.5	11278.7	11435.2	11369.7	11195.0	10969.4	10703.7	10580.0	10459.9
10583.6	12.5°	10958.5	11318.8	11722.8	11715.5	11391.6	10943.9	10419.8	10012.2	9753.8	9568.2
10951.2	15°	11413.4	11828.3	12137.7	11890.2	11180.5	10376.2	9608.2	9076.9	8843.9	8640.1
11322.4	17.5°	11882.9	12326.9	12468.9	11835.6	10649.1	9535.4	8665.6	8247.1	8017.8	7908.6
11722.8	20°	12341.5	12781.8	12665.4	11522.6	9841.1	8581.9	7806.7	7577.4	7530.1	7555.6
12112.2	22.5°	12825.5	13218.6	12705.4	10918.4	8811.2	7606.5	7180.7	7188.0	7293.5	7369.9
12519.8	25°	13320.5	13586.2	12599.9	10045.0	7704.8	6889.5	6784.0	6900.4	7107.9	7257.1
12978.4	27.5°	13797.3	13913.7	12370.6	8964.0	6754.9	6376.4	6394.6	6634.8	6947.8	7155.2
13535.2	30°	14335.9	14204.9	11930.2	7748.4	6096.1	5936.0	6088.8	6369.1	6682.1	6867.7
14237.6	32.5°	14943.7	14456.0	11231.4	6623.8	5630.3	5583.0	5834.1	6016.1	6154.4	6208.9
15169.3	35°	15700.7	14809.0	10336.1	5834.1	5211.7	5324.6	5564.8	5473.8	5419.2	5390.1
16421.3	37.5°	16683.4	15285.8	9287.9	5320.9	4873.3	5138.9	5237.2	4953.3	4738.6	4633.1
17939.0	40°	17866.2	15984.6	8279.8	4924.2	4658.5	4978.8	4807.7	4465.6	4192.7	4043.5
19645.9	42.5°	19180.0	16716.1	7431.8	4625.8	4538.4	4847.8	4491.1	4083.5	3643.1	3595.8
21680.4	45°	20559.4	17469.5	6853.1	4396.5	4480.2	4735.0	4309.1	3650.4	3337.4	3530.3
23722.1	47.5°	21938.8	18161.0	6503.7	4225.4	4451.1	4607.6	4149.0	3410.2	3188.2	3468.4
25909.4	50°	23474.6	18779.7	6347.2	4101.7	4418.3	4556.6	3908.8	3348.3	3031.7	3217.3
28173.2	52.5°	24999.6	19260.1	6230.8	3977.9	4371.0	4516.6	3792.3	3275.5	2842.4	2853.4
30451.5	55°	26520.9	19573.1	6103.4	3814.2	4265.5	4429.2	3781.4	3195.5	2700.5	2649.5
32860.8	57.5°	28144.1	19751.4	5946.9	3632.2	4083.5	4207.2	3770.5	3133.6	2656.8	2573.1
35324.8	60°	29796.4	20013.5	5743.1	3410.2	3839.6	3941.6	3745.0	3111.8	2631.3	2489.4
37646.8	62.5°	31277.7	20104.5	5499.3	3199.1	3526.7	3679.5	3690.4	3093.6	2562.2	2318.3
39575.7	65°	32249.4	19711.4	5073.4	2958.9	3188.2	3410.2	3584.9	3031.7	2438.4	2194.6
40529.2	67.5°	32209.4	18590.5	4407.4	2649.5	2860.6	3111.8	3432.0	2926.1	2289.2	2041.7
39808.6	70°	30709.9	16377.6	3563.0	2289.2	2500.3	2791.5	3235.5	2769.6	2110.9	1874.3
35397.6	72.5°	26338.9	12818.2	2587.7	1867.1	2081.8	2460.3	2980.7	2580.4	1928.9	1725.1
26160.6	75°	18816.1	8112.4	1754.2	1434.0	1619.6	2085.4	2664.1	2358.4	1761.5	1732.4
13102.1	77.5°	9611.9	3876.0	1161.0	1048.2	1128.2	1645.0	2238.3	2107.3	1787.0	1430.3
3726.8	80°	3126.3	1430.3	731.5	713.3	749.7	1095.5	1732.4	1728.8	1353.9	971.7
902.6	82.5°	997.2	615.1	476.8	458.6	440.4	687.9	1208.3	1368.4	913.5	615.1
323.9	85°	396.7	367.6	280.2	258.4	185.6	323.9	633.3	909.9	680.6	444.0
83.7	87.5°	145.6	145.6	76.4	54.6	40.0	109.2	171.1	273.0	389.4	229.3
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>
9913.9
10681.9
11049.5
10976.7
10423.5
9524.5
8618.3
7941.3
7544.6
7388.1
7297.2
7206.2
6911.4
6238.1
5419.2
4658.5
4054.4
3643.1
3632.2
3599.4
3355.6
2929.8
2685.9
2584.0
2500.3
2318.3
2194.6
2052.7
1896.2
1714.2
1634.1
1273.8
858.9
611.4
454.9
225.6
0.0

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