

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: P955651

Luminaire Tested: **GALN-SB8C-750-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955651
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB8C-750-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63681 lumens
Efficiency: N/A
Efficacy: 159.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

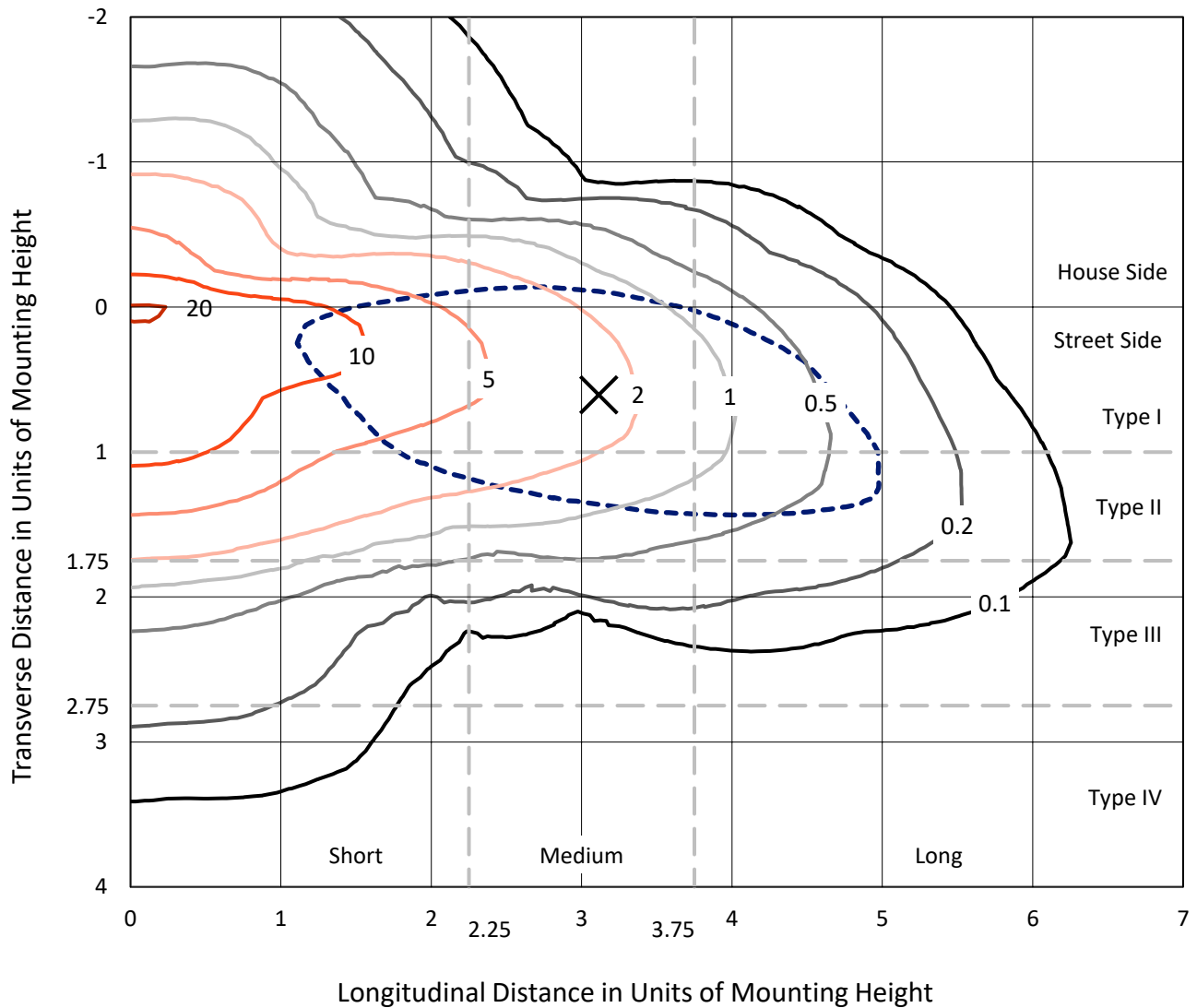
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

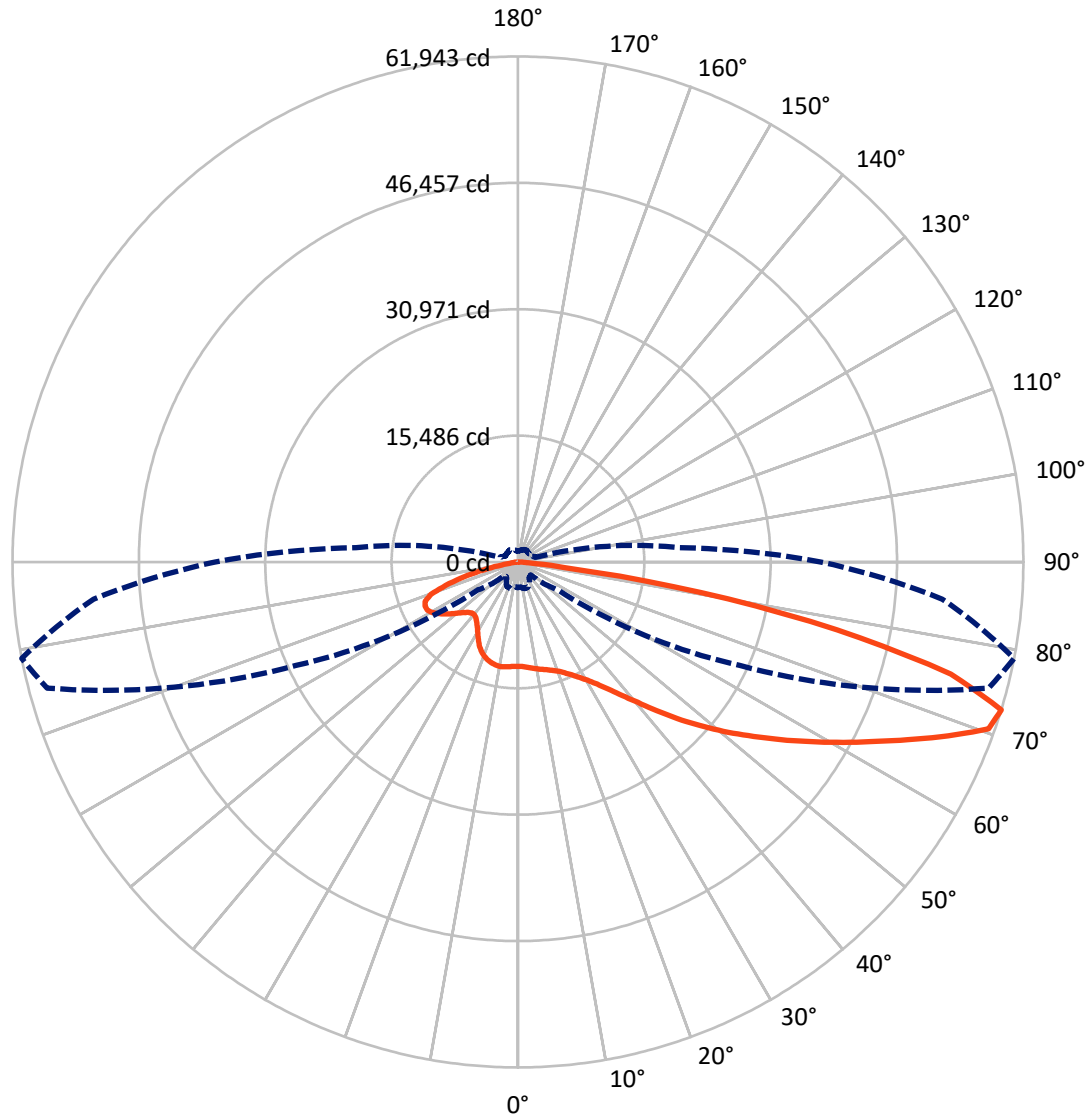
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14013.3	0.0	14013.3
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	49667.7	0.0	49667.7
	% Fixture	78.0	0.0	78.0
Total	Lumens	63681.0	0.0	63681.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1160.4	1.8
10°-20°	3033.8	4.8
20°-30°	4895.2	7.7
30°-40°	7347.1	11.5
40°-50°	10422.2	16.4
50°-60°	13161.9	20.7
60°-70°	13367.7	21.0
70°-80°	9110.7	14.3
80°-90°	1182.0	1.9
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°	63681.0	100.0
0°-180°	63681.0	100.0

Coefficient of Utilization



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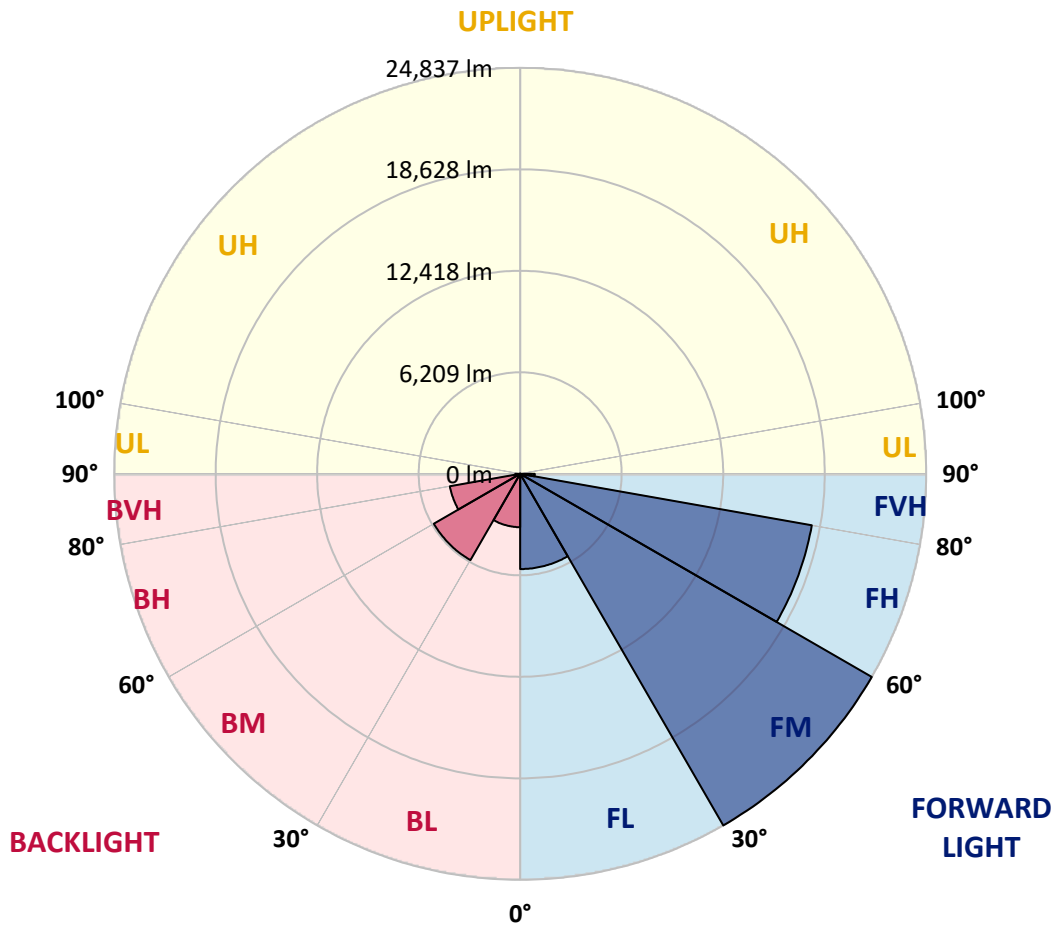
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5825.3	9.1			
FM (30°-60°)	24836.9	39.0			
FH (60°-80°)	18115.1	28.4			G5
FVH (80°-90°)	890.4	1.4			G5
BL (0°-30°)	3264.1	5.1	B4/5000		
BM (30°-60°)	6094.3	9.6	B4/8500		
BH (60°-80°)	4363.3	6.9	B4/5000		G4/5000
BVH (80°-90°)	291.6	0.5			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	12783.4	12783.4	12783.4	12783.4	12783.4	12783.4	12783.4	12783.4	12783.4	12783.4
2.5°	12790.1	12729.5	12766.5	12753.0	12769.9	12790.1	12796.8	12806.9	12840.6	12837.3
5°	12763.1	12702.5	12753.0	12736.2	12780.0	12827.1	12867.6	12904.6	12958.5	12982.1
7.5°	12705.9	12665.5	12716.0	12766.5	12847.4	12918.1	12975.4	13059.6	13137.0	13150.5
10°	12372.4	12342.1	12460.0	12591.4	12813.7	13005.7	13130.3	13228.0	13312.2	13325.7
12.5°	12025.4	11988.4	12119.8	12298.3	12658.7	13005.7	13268.4	13396.4	13470.5	13514.3
15°	11968.2	11937.9	12012.0	12166.9	12466.7	12914.7	13362.7	13598.5	13662.5	13713.1
17.5°	12244.4	12187.1	12217.5	12271.3	12446.5	12830.5	13436.8	13827.6	13925.3	13979.2
20°	12884.4	12803.6	12756.4	12648.6	12618.3	12844.0	13430.1	14103.8	14231.8	14299.2
22.5°	13736.6	13682.7	13581.7	13308.8	13012.4	13009.0	13558.1	14457.5	14696.6	14760.6
25°	14767.4	14686.5	14558.5	14188.0	13618.7	13335.8	13773.7	14908.9	15309.7	15326.6
27.5°	15953.1	15831.8	15656.7	15168.2	14400.2	13847.8	14103.8	15427.6	16013.7	16007.0
30°	17202.8	17081.5	16896.3	16303.4	15336.7	14538.3	14561.9	15986.8	16849.1	16812.0
32.5°	18115.6	18024.7	17987.6	17529.5	16414.6	15353.5	15087.4	16606.6	17879.9	17846.2
35°	18816.3	18698.4	18742.2	18509.8	17590.2	16266.4	15730.8	17344.3	19132.9	19129.6
37.5°	19510.2	19405.8	19442.8	19287.9	18678.2	17425.1	16515.6	18247.0	20685.8	20759.9
40°	20143.5	20032.3	20180.5	20035.7	19523.7	18658.0	17408.3	19267.7	22484.6	22626.0
42.5°	20524.1	20436.5	20682.4	20685.8	20258.0	19698.8	18388.5	20392.7	24566.3	24882.9
45°	20655.5	20625.2	20995.7	21073.2	20908.1	20301.8	19271.0	21618.9	26809.7	27375.6
47.5°	20514.0	20456.7	20968.7	21255.1	21386.4	20584.7	20002.0	22946.0	29100.2	29928.9
50°	19799.9	19688.7	20450.0	21053.0	21521.2	20770.0	20739.7	24478.7	31704.1	32610.2
52.5°	18516.5	18432.3	19298.0	20345.6	21224.7	20861.0	21568.3	26152.8	34176.5	35348.8
55°	16876.1	16764.9	17718.2	19085.8	20487.1	20830.6	22397.0	28025.7	37093.6	38282.7
57.5°	14275.6	14053.3	15259.2	16876.1	19284.5	20793.6	23259.3	29888.5	40057.9	41482.7
60°	10482.7	10152.6	11631.3	13548.0	16933.3	20433.2	24327.1	31976.9	43615.0	44898.4
62.5°	6103.7	5911.7	6878.4	8667.1	12763.1	18311.0	24926.7	34405.6	47111.5	48458.9
65°	4739.4	4685.5	4769.8	4907.9	7104.1	13709.7	23077.4	36773.6	51557.8	52501.0
67.5°	4335.2	4294.8	4331.9	4072.5	3604.3	7636.3	18257.1	37373.2	56320.9	56893.5
70°	3853.5	3806.4	3927.6	3705.3	2836.3	3472.9	11796.4	35197.2	60110.4	61184.9
72.5°	3139.4	3085.5	3368.5	3267.4	2388.2	2229.9	5925.1	30026.6	59712.9	61942.9
75°	2411.8	2381.5	2718.4	2802.6	1947.0	1755.0	2843.0	22319.5	52548.2	54795.0
77.5°	1872.9	1849.3	2021.1	2327.6	1569.7	1360.9	1748.2	14157.7	39599.8	39993.9
80°	1404.7	1337.3	1495.6	1802.1	1222.8	993.7	1185.7	8256.1	25031.1	22690.0
82.5°	879.2	845.5	976.9	1202.5	862.3	683.8	771.4	4560.9	10031.3	5908.3
85°	501.9	488.4	532.2	687.2	468.2	394.1	441.3	2014.3	1832.4	1259.8
87.5°	202.1	195.4	242.5	306.5	171.8	144.8	154.9	485.1	404.2	373.9
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°
12783.4	0°	12783.4	12783.4	12783.4	12783.4	12783.4	12783.4	12783.4	12783.4	12783.4	12783.4
12833.9	2.5°	12820.4	12820.4	12773.2	12699.1	12614.9	12561.0	12473.5	12449.9	12358.9	12332.0
12948.4	5°	12975.4	12948.4	12803.6	12594.7	12308.4	12045.7	11756.0	11574.1	11318.1	11227.1
13174.1	7.5°	13170.7	13096.6	12847.4	12389.2	11789.7	11200.2	10587.1	10122.3	9677.6	9519.3
13359.4	10°	13349.3	13244.8	12820.4	12018.7	10981.2	9960.6	8983.7	8299.9	7781.2	7569.0
13564.8	12.5°	13527.8	13335.8	12641.9	11402.3	9832.6	8448.1	7407.3	6875.1	6555.0	6299.0
13733.3	15°	13696.2	13426.7	12365.7	10577.0	8572.8	7168.1	6400.1	5975.7	5719.7	5551.2
13979.2	17.5°	13891.6	13504.2	11951.3	9529.4	7373.6	6282.2	5655.7	5399.7	5349.1	5328.9
14316.0	20°	14164.4	13574.9	11405.6	8357.2	6491.0	5574.8	5251.4	5227.9	5224.5	5214.4
14720.2	22.5°	14457.5	13659.2	10684.8	7292.7	5739.9	5133.6	5076.3	5029.1	4998.8	4995.4
15208.7	25°	14804.4	13686.1	9782.0	6420.3	5099.9	4924.7	4857.3	4786.6	4766.4	4766.4
15764.5	27.5°	15141.3	13595.2	8731.1	5662.4	4739.4	4732.7	4645.1	4621.5	4618.2	4628.3
16397.7	30°	15478.1	13423.4	7686.9	4961.8	4530.6	4530.6	4500.3	4517.1	4530.6	4564.3
17266.8	32.5°	15932.9	13241.5	6814.4	4443.0	4348.7	4315.0	4345.3	4379.0	4392.5	4436.3
18408.7	35°	16599.8	13113.5	6120.5	4160.1	4160.1	4116.3	4133.1	4126.4	4096.1	4075.9
19789.8	37.5°	17482.4	13106.7	5547.9	4028.7	4001.7	3995.0	3998.4	3954.6	3836.7	3695.2
21460.5	40°	18543.4	13288.6	5106.6	3937.7	3917.5	3958.0	3937.7	3819.8	3496.5	3250.6
23515.3	42.5°	19968.3	13807.4	4823.7	3826.6	3887.2	3937.7	3856.9	3449.3	3230.4	3065.3
25856.4	45°	21645.8	14649.5	4678.8	3708.7	3830.0	3890.6	3499.8	3321.3	3146.2	2947.4
28409.7	47.5°	23545.6	15710.6	4645.1	3597.5	3702.0	3739.0	3348.3	3267.4	3068.7	2853.1
30976.5	50°	25613.9	16967.0	4736.1	3466.2	3516.7	3388.7	3297.7	3223.6	3018.2	2805.9
33607.3	52.5°	27752.8	18351.4	4918.0	3287.6	3331.4	3189.9	3277.5	3213.5	2987.8	2701.5
36325.6	55°	29854.8	19746.0	5093.1	3078.8	3142.8	3011.4	3220.3	3173.1	2849.7	2526.4
39225.9	57.5°	31990.4	21133.8	5264.9	2893.5	2960.9	2839.6	3129.3	3065.3	2694.8	2364.7
42392.2	60°	34210.2	22481.2	5345.8	2715.0	2762.1	2681.3	2991.2	2880.0	2519.6	2199.6
45504.7	62.5°	36288.6	23602.9	5214.4	2536.5	2566.8	2533.1	2809.3	2661.1	2344.5	2014.3
48748.5	65°	38373.6	24269.8	4810.2	2361.3	2368.0	2351.2	2553.3	2425.3	2139.0	1852.7
51588.2	67.5°	40263.4	24643.7	4166.8	2172.7	2155.8	2149.1	2314.1	2169.3	1940.2	1691.0
53747.4	70°	40664.2	23693.8	3183.2	1950.3	1950.3	1933.5	2051.4	1903.2	1721.3	1519.2
52201.2	72.5°	37140.8	19931.3	2260.2	1697.7	1724.7	1691.0	1788.7	1664.0	1499.0	1364.2
44989.3	75°	29949.1	14615.8	1643.8	1438.3	1485.5	1428.2	1519.2	1431.6	1290.1	1286.8
31003.4	77.5°	20578.0	9037.6	1192.4	1185.7	1219.4	1145.3	1249.7	1202.5	1074.5	1017.3
13494.1	80°	8781.6	3604.3	869.1	916.2	916.2	848.9	970.1	983.6	872.4	845.5
2603.8	82.5°	1748.2	1024.0	609.7	629.9	592.9	572.6	687.2	761.3	1051.0	1168.9
784.9	85°	525.5	377.3	367.2	343.6	303.2	306.5	404.2	764.6	943.2	539.0
259.4	87.5°	144.8	94.3	97.7	77.5	64.0	84.2	138.1	579.4	316.6	134.7
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

180°
12783.4
12375.8
11294.5
9539.5
7616.1
6383.3
5581.6
5342.4
5248.1
5032.5
4786.6
4655.2
4587.9
4473.3
4123.0
3698.6
3243.8
3058.6
2933.9
2836.3
2782.4
2681.3
2509.5
2357.9
2189.5
2011.0
1832.4
1670.8
1512.4
1323.8
1158.8
953.3
845.5
1172.2
464.8
114.5
0.0

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