

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: P938869

Luminaire Tested: **GALN-SB1A-940-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938869
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-940-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3214 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

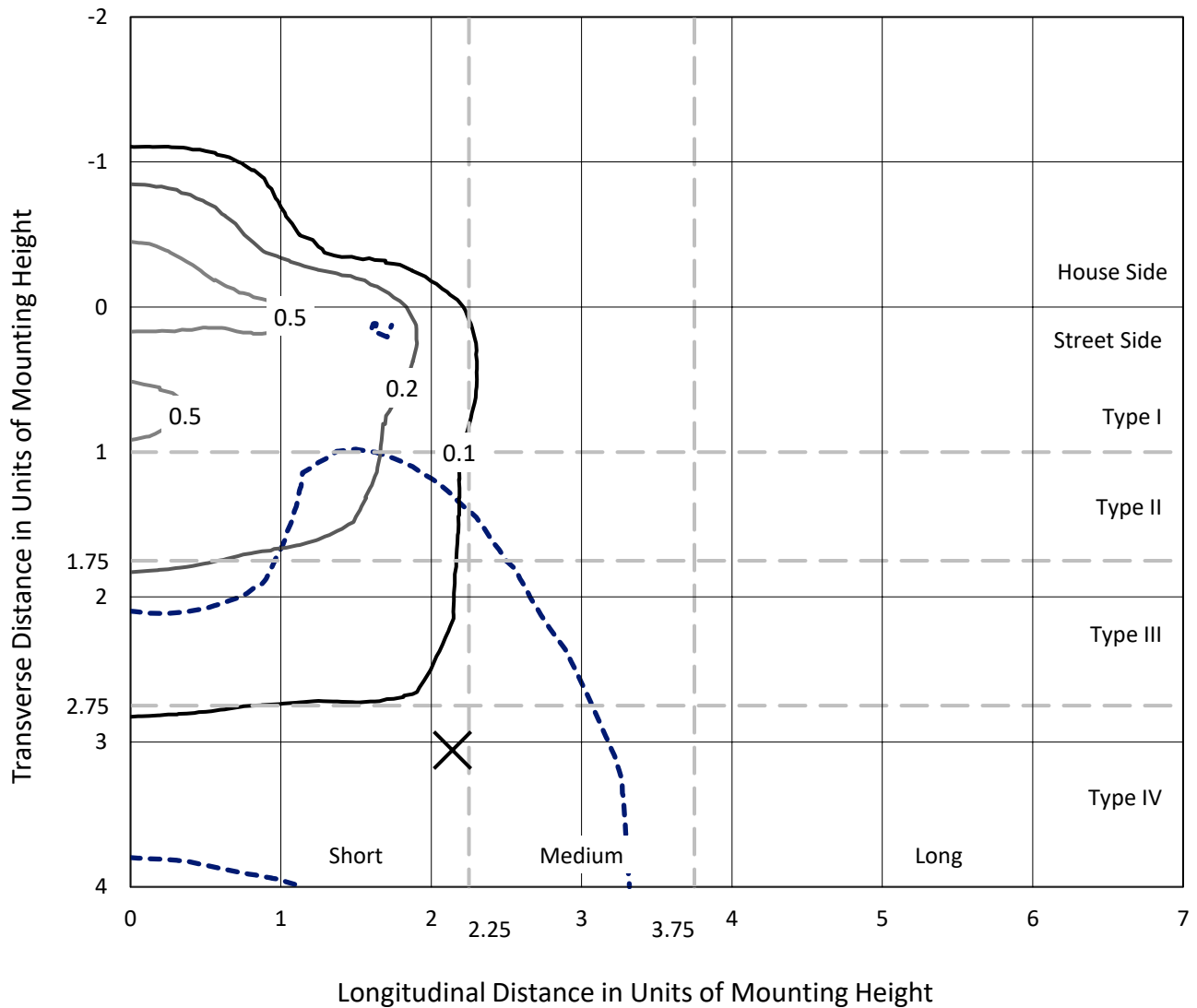
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

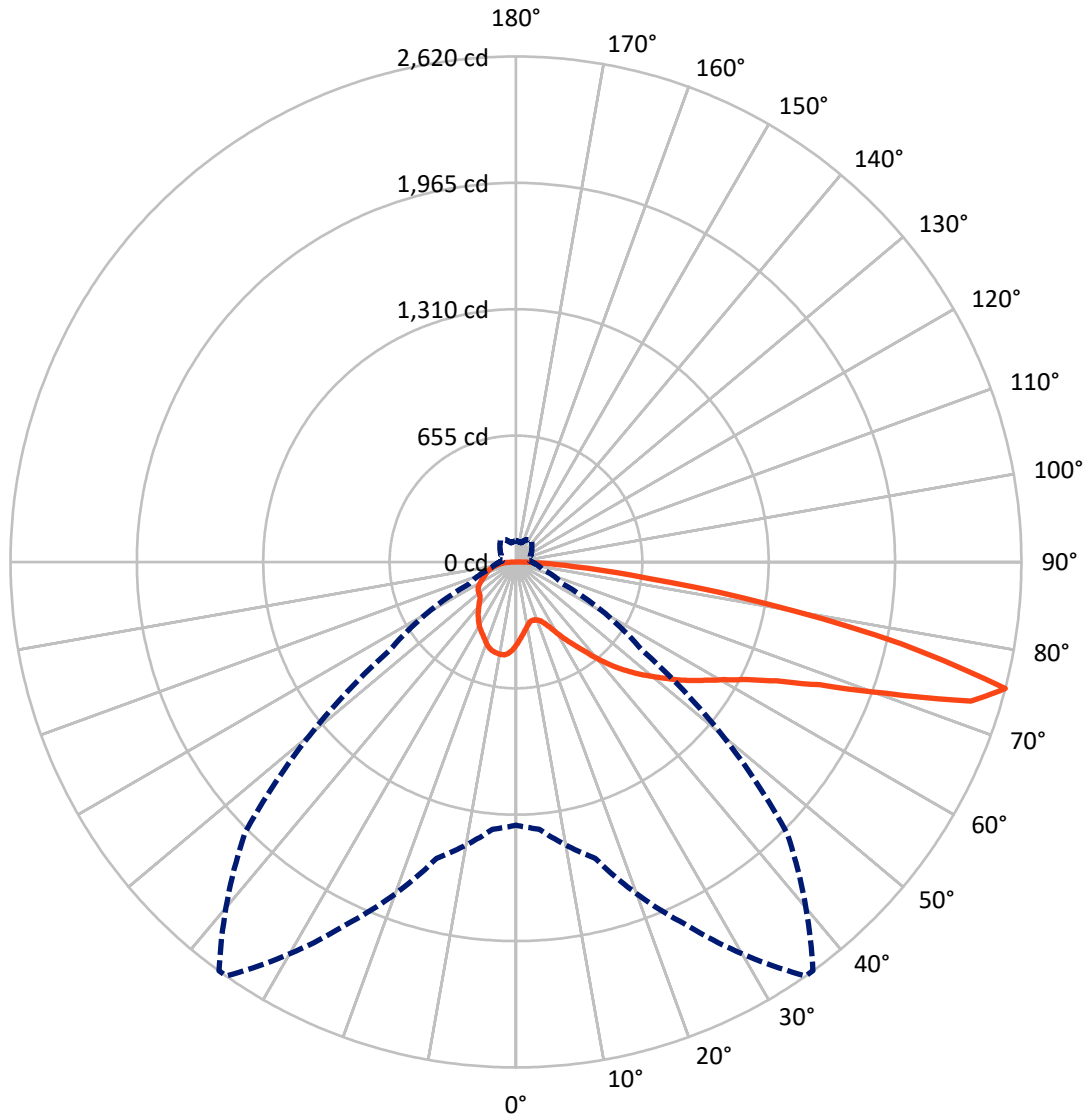
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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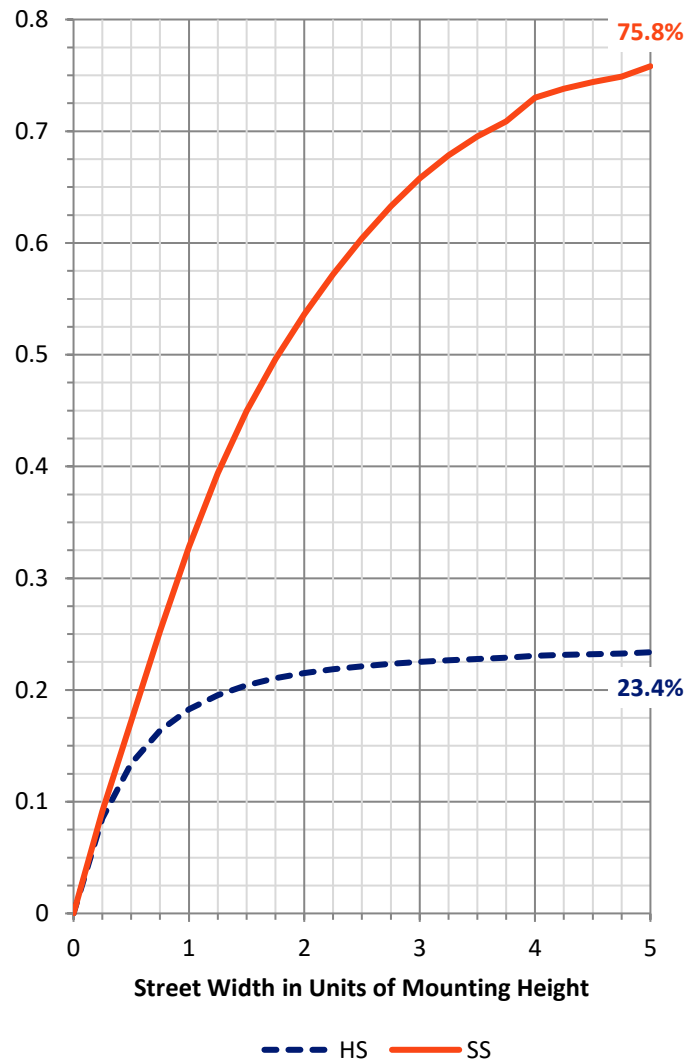
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	764.8	0.0	764.8
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	2449.2	0.0	2449.2
	% Fixture	76.2	0.0	76.2
Total	Lumens	3214.0	0.0	3214.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.6	1.3
10°-20°	117.0	3.6
20°-30°	196.4	6.1
30°-40°	305.3	9.5
40°-50°	453.1	14.1
50°-60°	625.5	19.5
60°-70°	758.9	23.6
70°-80°	627.2	19.5
80°-90°	90.2	2.8
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°	3214.0	100.0
0°-180°	3214.0	100.0



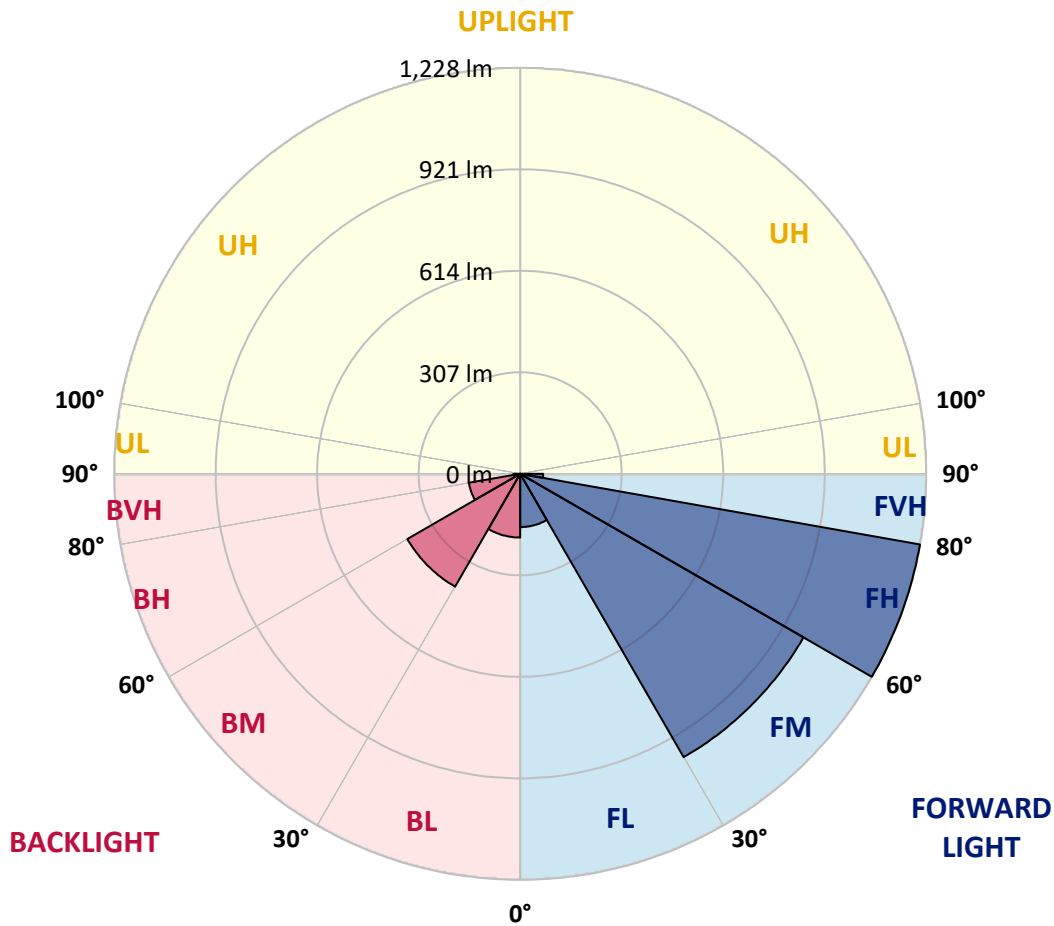
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	161.2	5.0			
FM (30°-60°)	989.7	30.8			
FH (60°-80°)	1228.3	38.2			G1/1800
FVH (80°-90°)	69.9	2.2			G1/100
BL (0°-30°)	192.8	6.0	B1/500		
BM (30°-60°)	394.1	12.3	B1/1000		
BH (60°-80°)	157.7	4.9	B1/500		G1/500
BVH (80°-90°)	20.3	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	428.3	428.3	428.3	428.3	428.3	428.3	428.3	428.3	428.3	428.3
2.5°	394.9	397.4	398.4	397.9	400.5	400.1	403.8	408.3	414.6	420.6
5°	364.5	367.1	369.4	371.5	376.5	378.1	383.8	392.5	404.0	415.6
7.5°	336.2	338.5	341.9	345.8	354.3	355.8	365.4	378.9	394.9	412.0
10°	313.1	315.4	319.0	323.3	333.9	335.9	348.0	366.1	386.9	408.5
12.5°	303.2	303.9	306.0	310.3	319.5	320.7	334.1	354.8	379.1	405.9
15°	302.7	304.1	304.2	306.5	314.1	314.7	327.0	347.5	374.3	405.4
17.5°	307.9	308.9	307.4	308.7	315.2	316.0	325.8	344.0	372.7	407.6
20°	321.8	322.6	318.0	316.0	320.7	321.4	331.0	346.3	374.3	412.3
22.5°	351.3	351.8	340.4	332.6	332.9	333.2	341.6	355.5	380.3	420.8
25°	397.4	397.0	378.8	363.7	355.0	353.1	358.6	370.4	390.6	432.1
27.5°	451.2	448.6	430.4	407.8	388.8	386.1	384.9	389.9	405.2	447.1
30°	512.0	509.6	490.0	460.4	434.2	429.7	418.2	415.6	426.9	467.4
32.5°	578.8	577.2	553.7	517.9	482.8	477.6	458.3	451.4	460.3	498.1
35°	634.7	633.3	613.8	577.0	534.1	527.7	508.0	500.2	504.7	537.6
37.5°	685.3	684.6	667.9	638.9	594.6	586.7	564.7	562.1	561.2	589.5
40°	732.2	730.4	713.1	697.8	664.9	657.8	638.3	636.1	629.5	653.5
42.5°	784.1	779.6	754.4	747.3	738.4	732.5	720.9	721.2	706.6	725.6
45°	826.5	823.9	798.0	793.9	803.4	801.0	811.1	813.7	785.3	801.1
47.5°	872.0	869.6	847.7	844.8	870.6	871.3	907.0	907.8	862.1	879.7
50°	928.2	924.7	903.0	906.6	935.6	938.2	1003.4	997.5	932.8	959.4
52.5°	965.2	967.3	962.6	968.5	1008.1	1010.5	1098.3	1083.1	1002.9	1038.1
55°	992.4	996.6	1011.2	1024.8	1084.5	1087.0	1187.7	1164.6	1060.9	1111.1
57.5°	1027.5	1021.6	1048.9	1075.3	1157.2	1163.6	1274.8	1243.2	1112.3	1174.0
60°	1077.9	1073.8	1095.0	1134.0	1238.5	1248.7	1366.9	1313.9	1150.0	1223.9
62.5°	1180.1	1169.7	1173.0	1207.5	1341.0	1354.5	1470.8	1375.6	1168.8	1243.3
65°	1332.8	1314.9	1298.2	1322.2	1485.4	1498.7	1588.1	1424.0	1161.8	1205.6
67.5°	1525.2	1507.4	1486.9	1509.5	1698.0	1708.6	1732.8	1451.3	1107.1	1060.4
70°	1683.8	1677.2	1701.7	1794.6	2037.7	2038.1	1918.3	1428.7	957.2	751.8
72.5°	1662.8	1658.8	1787.9	2075.2	2465.8	2456.6	2094.0	1257.8	644.8	339.2
75°	1364.1	1390.0	1590.0	2070.2	2619.6	2618.4	1986.5	799.6	266.7	140.6
77.5°	731.5	772.5	1032.2	1528.5	2045.0	2075.8	1396.6	279.7	114.5	90.0
80°	238.6	274.3	411.4	778.2	1328.8	1323.1	598.6	109.8	78.4	63.8
82.5°	101.3	105.5	183.8	367.5	682.0	671.4	190.6	63.1	55.1	43.6
85°	39.6	44.3	81.1	169.9	295.4	288.9	68.8	31.3	35.3	28.5
87.5°	13.0	15.8	29.0	58.2	91.9	88.6	16.9	10.8	15.3	13.0
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°
428.3	0°	428.3	428.3	428.3	428.3	428.3	428.3	428.3	428.3	428.3	428.3
429.5	2.5°	431.9	434.7	438.0	442.9	447.1	450.5	454.2	456.4	457.3	459.9
430.2	5°	435.1	441.1	449.3	457.3	465.1	469.8	474.0	476.1	478.0	479.4
432.1	7.5°	440.3	448.1	461.0	471.4	478.0	481.8	484.6	483.9	484.6	484.9
434.2	10°	444.8	455.7	471.0	480.9	486.0	486.1	485.5	483.0	481.8	482.0
437.3	12.5°	450.2	462.3	478.8	487.2	488.6	484.8	481.8	477.6	476.1	475.4
442.0	15°	457.5	471.4	487.4	490.5	487.0	482.1	477.1	470.3	466.9	464.1
450.0	17.5°	466.3	481.6	494.0	491.7	484.2	476.2	468.1	457.8	450.7	447.7
461.0	20°	478.7	492.4	499.0	489.1	477.8	465.6	451.7	439.2	432.6	429.7
474.9	22.5°	493.6	506.8	503.9	484.6	468.6	449.1	431.8	422.6	419.3	417.2
492.7	25°	511.5	522.8	507.3	478.0	453.5	427.2	413.9	410.9	409.3	407.8
514.6	27.5°	534.8	540.9	509.9	468.2	429.9	404.0	399.1	399.6	399.1	396.5
545.0	30°	565.5	564.3	512.4	452.4	402.7	382.9	383.3	385.5	385.9	384.2
587.4	32.5°	606.0	593.7	513.6	431.9	376.9	364.5	364.9	367.3	369.0	366.1
642.9	35°	655.0	627.9	511.7	406.2	356.9	347.0	344.4	345.1	345.6	342.8
710.1	37.5°	712.2	666.3	503.2	377.7	340.4	329.8	324.2	319.5	316.7	314.1
786.2	40°	774.9	708.2	487.5	349.9	322.0	311.5	303.2	294.3	284.9	281.5
866.8	42.5°	840.6	751.3	468.6	323.3	300.8	292.2	283.4	270.5	256.5	249.3
950.6	45°	908.7	795.4	450.0	297.1	279.0	275.4	265.1	249.7	234.4	225.4
1034.5	47.5°	975.4	837.1	422.7	270.7	258.7	262.7	254.7	240.5	223.4	209.2
1117.7	50°	1039.2	876.2	378.1	243.9	242.2	258.9	251.2	230.7	211.3	193.0
1199.4	52.5°	1102.4	907.8	320.9	219.6	233.3	257.8	246.7	224.1	200.3	181.2
1276.2	55°	1156.1	924.2	265.8	198.8	220.5	249.0	241.3	216.3	184.9	164.5
1328.8	57.5°	1186.7	911.0	220.0	178.3	202.8	234.4	232.1	199.6	166.4	150.8
1339.1	60°	1173.5	857.4	182.4	160.4	185.9	218.6	216.1	183.1	152.4	137.6
1284.2	62.5°	1100.7	755.5	152.7	144.7	170.6	202.4	200.2	170.4	141.6	127.4
1138.4	65°	954.0	614.5	129.6	131.7	155.2	183.0	186.3	159.8	133.1	119.2
880.7	67.5°	727.7	445.1	111.5	120.4	140.0	163.8	173.4	152.2	126.0	112.8
509.6	70°	414.7	252.8	96.3	109.5	126.7	146.1	163.5	146.1	118.3	107.4
190.9	72.5°	157.2	116.1	83.2	98.5	113.8	131.2	152.6	136.6	109.5	101.3
98.7	75°	83.9	70.7	70.0	85.7	99.0	116.6	138.8	127.2	102.9	107.0
68.3	77.5°	57.2	50.0	58.6	73.3	82.9	100.4	124.2	112.9	89.1	88.8
47.3	80°	39.6	35.4	47.6	59.1	64.1	84.4	108.4	97.0	72.6	67.8
29.2	82.5°	23.8	23.1	35.6	44.1	45.3	65.2	89.8	81.3	59.4	51.8
17.4	85°	13.0	13.7	22.8	25.9	26.4	45.5	70.4	62.9	45.7	38.4
6.3	87.5°	3.6	4.7	8.3	10.3	12.7	23.6	41.9	37.4	22.9	16.0
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>
428.3
459.7
479.7
485.5
482.3
475.0
464.9
447.9
429.3
417.5
407.8
397.0
385.0
367.5
344.7
315.9
283.0
250.2
224.7
207.6
191.5
179.1
162.8
148.7
135.5
125.1
116.9
110.7
106.0
99.9
<i>110.5</i>
81.8
64.8
52.1
38.7
16.0
0.0

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