

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: P938867

Luminaire Tested: **GALN-SB1A-940-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938867
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
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-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3254 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

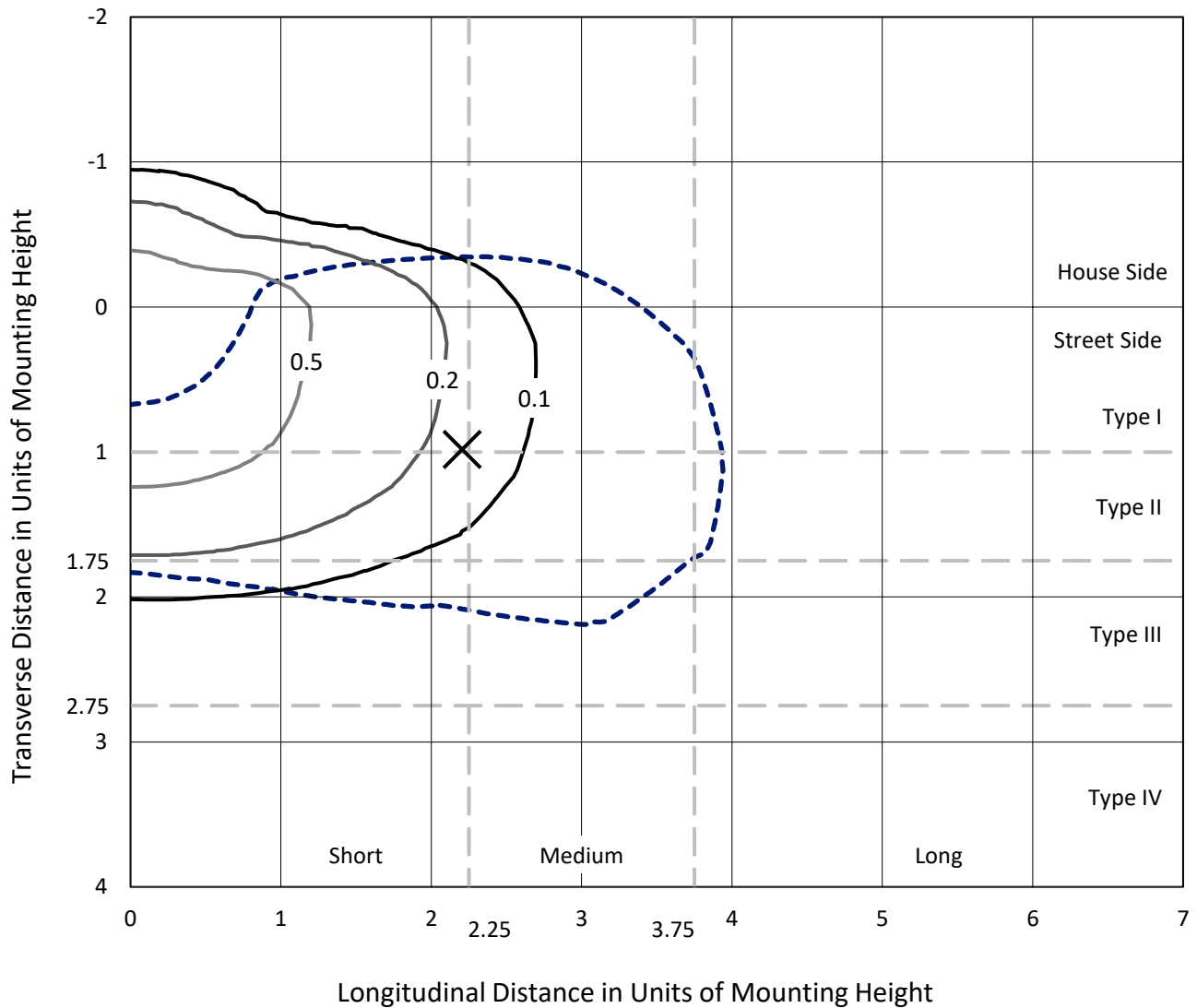
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

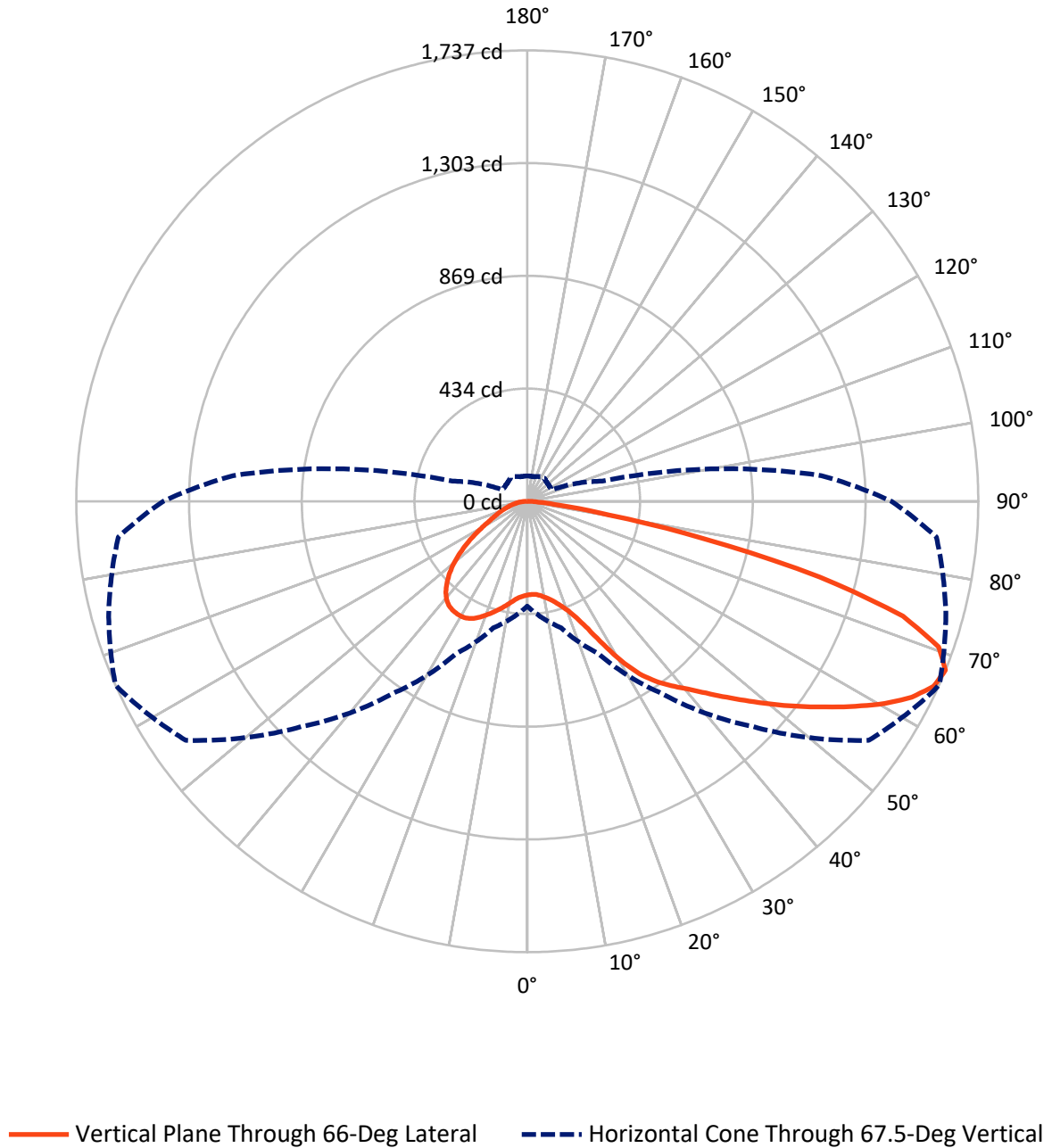
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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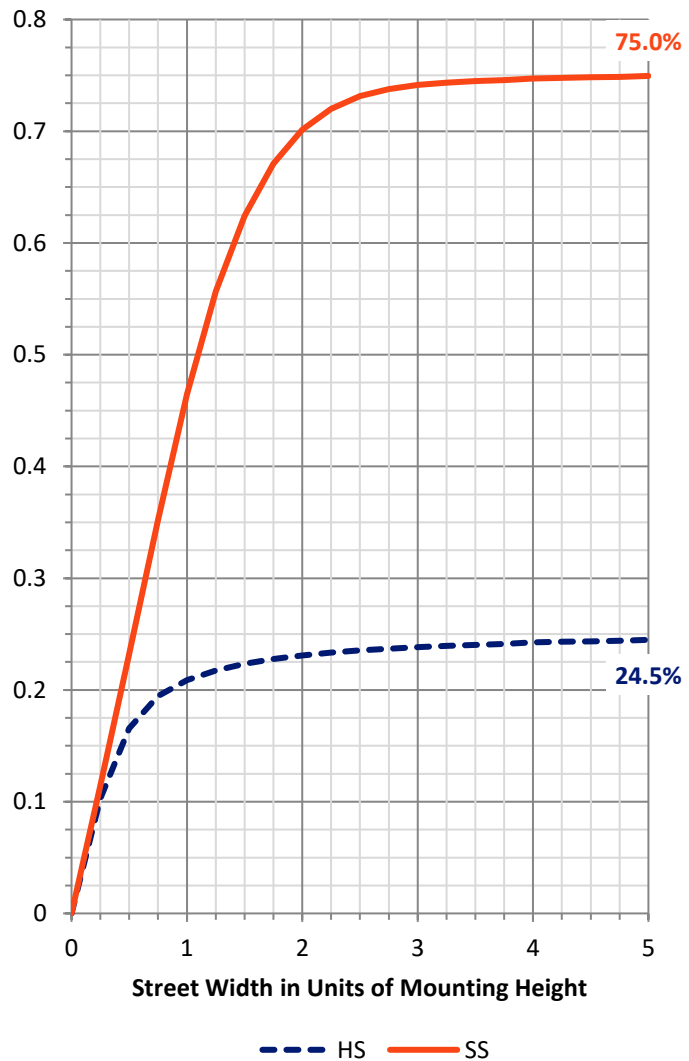
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	809.1	0.0	809.1
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	2444.9	0.0	2444.9
	% Fixture	75.1	0.0	75.1
Total	Lumens	3254.0	0.0	3254.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.8	1.1
10°-20°	118.2	3.6
20°-30°	227.9	7.0
30°-40°	399.5	12.3
40°-50°	594.0	18.3
50°-60°	752.9	23.1
60°-70°	736.7	22.6
70°-80°	351.4	10.8
80°-90°	37.6	1.2
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°	3254.0	100.0
0°-180°	3254.0	100.0

Coefficient of Utilization



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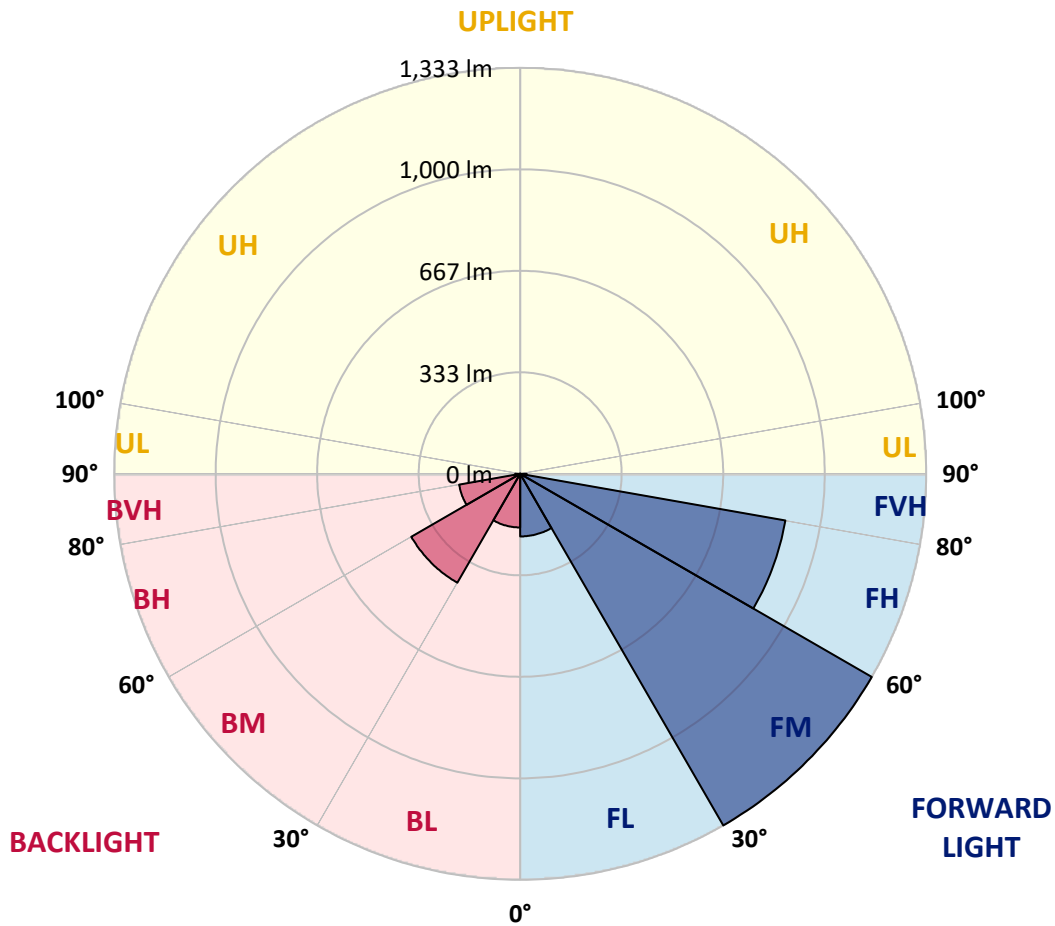
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	205.6	6.3			
FM (30°-60°)	1333.5	41.0			
FH (60°-80°)	884.5	27.2			G1/1800
FVH (80°-90°)	21.3	0.7			G1/100
BL (0°-30°)	176.2	5.4	B1/500		
BM (30°-60°)	413.0	12.7	B1/1000		
BH (60°-80°)	203.6	6.3	B1/500		G1/500
BVH (80°-90°)	16.3	0.5			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	360.9	360.9	360.9	360.9	360.9	360.9	360.9	360.9	360.9	360.9
2.5°	357.2	359.2	358.7	357.8	357.7	358.0	358.5	359.0	358.9	359.7
5°	356.1	358.2	358.0	358.0	358.7	360.1	360.9	361.8	360.9	361.9
7.5°	356.8	358.3	359.0	359.7	361.4	364.0	366.0	367.9	366.9	368.1
10°	365.5	366.7	367.4	367.4	368.6	371.5	373.6	377.0	376.1	378.0
12.5°	381.4	382.6	382.6	381.9	382.8	384.7	385.4	389.1	387.6	390.7
15°	400.9	403.3	401.4	400.2	400.6	402.5	402.3	405.2	403.7	406.2
17.5°	422.5	425.5	422.5	422.3	421.6	423.7	423.8	426.4	423.7	425.5
20°	447.9	452.2	449.6	450.5	449.0	449.8	450.7	454.4	450.2	451.5
22.5°	483.8	489.0	486.2	489.5	488.5	487.8	487.6	494.3	487.6	488.1
25°	536.2	542.3	537.5	542.0	542.0	544.2	546.8	555.3	544.2	540.9
27.5°	613.4	619.6	610.2	612.9	612.1	617.5	614.8	636.0	624.0	618.7
30°	706.4	717.4	699.6	698.9	698.1	706.8	710.7	724.7	712.6	707.3
32.5°	807.0	818.4	797.2	791.1	787.8	793.1	789.9	801.2	792.8	784.6
35°	913.3	924.6	904.4	892.4	879.5	868.3	856.7	859.6	851.8	839.3
37.5°	1013.8	1034.5	1013.2	1000.3	976.4	954.7	922.2	908.7	901.3	889.9
40°	1116.2	1128.0	1111.8	1100.9	1074.9	1040.8	988.9	960.3	950.4	939.3
42.5°	1191.6	1202.9	1194.2	1186.7	1166.3	1126.8	1059.7	1023.9	1009.6	997.1
45°	1251.5	1259.9	1254.4	1257.1	1248.4	1210.1	1133.0	1092.1	1077.3	1062.0
47.5°	1275.6	1284.5	1293.2	1309.4	1324.3	1296.1	1211.8	1166.0	1150.3	1134.7
50°	1272.9	1281.9	1307.2	1341.8	1387.9	1378.5	1294.9	1244.6	1230.1	1212.3
52.5°	1251.0	1261.2	1293.7	1351.2	1424.7	1440.2	1379.5	1325.9	1312.2	1291.0
55°	1193.5	1199.7	1248.4	1329.8	1433.4	1483.3	1462.5	1412.4	1398.7	1369.1
57.5°	1087.0	1095.9	1166.9	1272.2	1411.5	1512.5	1535.3	1503.3	1490.1	1447.6
60°	948.0	962.2	1043.4	1175.4	1355.8	1512.4	1601.4	1592.7	1581.8	1524.9
62.5°	790.7	807.1	885.3	1038.6	1258.3	1469.5	1642.8	1667.6	1662.0	1596.1
65°	607.3	618.6	696.3	861.7	1106.7	1377.3	1647.6	1718.7	1719.8	1650.3
67.5°	404.3	436.8	504.4	646.6	903.6	1226.7	1605.6	1727.1	1737.0	1669.0
70°	197.3	240.0	306.2	420.2	646.6	995.7	1495.6	1658.4	1680.4	1614.6
72.5°	81.9	95.7	131.8	207.4	371.2	671.9	1274.7	1472.0	1512.9	1430.7
75°	55.2	59.8	75.4	106.3	169.1	331.3	919.3	1097.6	1163.4	1080.5
77.5°	42.6	45.5	54.9	74.4	100.5	125.3	492.0	661.5	695.5	643.9
80°	33.5	35.7	41.0	54.2	71.3	67.0	167.7	299.7	319.4	267.9
82.5°	29.1	29.9	29.4	36.8	47.4	39.2	55.1	110.6	122.1	88.6
85°	21.0	23.4	24.4	22.7	25.1	19.8	22.6	39.2	43.1	38.5
87.5°	8.5	12.7	15.6	14.7	9.2	5.6	7.0	11.5	13.2	14.4
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°
360.9	0°	360.9	360.9	360.9	360.9	360.9	360.9	360.9	360.9	360.9	360.9
361.1	2.5°	361.3	362.5	363.3	364.3	365.0	366.0	368.1	369.3	369.5	370.3
363.8	5°	364.5	366.2	368.1	370.8	373.9	376.5	380.4	383.1	384.2	385.0
370.5	7.5°	371.5	373.9	377.3	382.1	386.6	390.0	394.8	398.0	401.3	402.5
381.1	10°	381.9	385.4	390.3	396.8	401.6	406.0	411.0	413.7	417.0	418.4
393.7	12.5°	394.9	398.5	405.0	414.1	418.5	421.6	423.3	422.6	423.3	424.5
409.0	15°	409.8	413.7	421.1	430.8	433.9	431.2	427.4	424.0	423.5	423.8
427.4	17.5°	427.4	430.3	438.9	447.1	444.9	433.6	425.4	419.9	417.2	416.3
451.0	20°	452.0	452.0	459.0	464.2	449.3	430.2	417.3	408.4	402.8	400.4
483.2	22.5°	482.0	479.2	483.7	480.1	448.4	420.6	402.8	387.4	378.9	375.4
528.1	25°	519.9	516.7	515.5	493.2	442.3	405.4	376.5	357.8	350.3	348.4
592.9	27.5°	577.2	569.0	553.4	500.4	431.0	381.4	345.7	328.4	324.2	324.3
676.2	30°	653.4	637.0	598.9	501.6	412.5	347.6	314.2	301.9	299.9	300.7
746.1	32.5°	724.0	708.5	645.4	496.1	384.2	314.4	286.0	277.8	274.7	275.8
799.4	35°	779.4	775.2	688.5	488.5	349.3	283.3	260.7	253.7	247.7	246.4
849.7	37.5°	831.8	830.0	720.8	477.7	314.8	261.2	240.4	231.1	222.4	217.6
905.3	40°	889.2	887.5	742.0	461.1	284.1	242.1	222.1	209.9	199.2	190.5
968.2	42.5°	953.8	943.7	752.1	437.3	258.2	225.8	207.2	190.8	176.6	168.6
1039.3	45°	1024.4	1001.7	751.9	407.1	236.3	211.0	191.3	168.1	154.9	147.4
1112.3	47.5°	1099.3	1057.1	742.7	373.6	215.1	194.6	166.7	148.9	140.2	135.6
1191.6	50°	1176.6	1108.9	727.0	335.1	193.4	175.9	151.3	139.2	132.5	128.2
1270.3	52.5°	1249.3	1155.9	708.0	291.5	171.3	157.8	144.5	135.1	128.1	123.3
1346.5	55°	1316.8	1196.4	681.1	246.9	153.4	145.7	141.2	133.4	125.3	119.7
1424.0	57.5°	1376.8	1222.8	634.8	205.0	140.5	137.3	137.8	130.4	121.2	116.4
1500.2	60°	1426.7	1242.1	566.2	166.2	130.1	129.1	132.5	125.0	114.2	108.7
1564.7	62.5°	1456.6	1241.7	482.1	136.1	121.2	121.6	125.5	118.1	107.2	102.1
1598.4	65°	1454.1	1211.3	389.8	116.4	112.7	113.0	118.1	110.6	101.4	98.3
1581.4	67.5°	1402.6	1137.1	299.0	103.6	103.3	104.8	110.8	105.5	97.8	97.5
1480.6	70°	1263.3	983.1	215.4	93.3	93.5	95.7	103.6	102.2	95.9	96.6
1244.8	72.5°	1013.0	749.5	144.6	82.6	82.7	86.3	96.8	99.7	94.0	103.1
883.2	75°	674.6	467.4	93.0	71.1	71.3	75.9	90.8	94.7	88.9	102.8
459.6	77.5°	324.2	210.1	67.4	59.8	59.8	64.1	78.5	84.8	75.7	79.8
147.7	80°	112.0	79.0	53.0	48.2	47.2	50.1	66.2	73.5	65.3	60.2
48.2	82.5°	44.1	41.0	42.6	37.4	34.0	35.9	51.5	60.7	48.0	43.4
27.2	85°	25.3	26.7	30.1	24.8	19.7	22.1	37.8	43.6	36.2	32.0
8.9	87.5°	6.8	9.4	13.8	12.8	8.9	9.4	18.0	24.1	20.9	16.1
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>
360.9
370.1
384.8
402.6
419.0
424.9
425.0
417.5
399.9
374.9
348.8
324.8
303.6
277.1
247.4
217.8
191.3
169.1
147.0
134.6
126.7
121.2
117.5
113.4
106.3
100.5
98.1
98.0
96.4
104.5
103.6
73.2
56.4
43.3
32.7
16.6
0.0

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