Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P939007

Luminaire Tested: **GALN-SB1B-927-U-T3**

Issue Date: 1/21/2025

Report Generated By 670246001

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Test Information

Test Method:	LM-79-08
Report Number:	P939007
	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-SB1B-927-U-T3
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(1) 90 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3431 lumens
Efficiency:	N/A
Efficacy:	86.2 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):	39.8
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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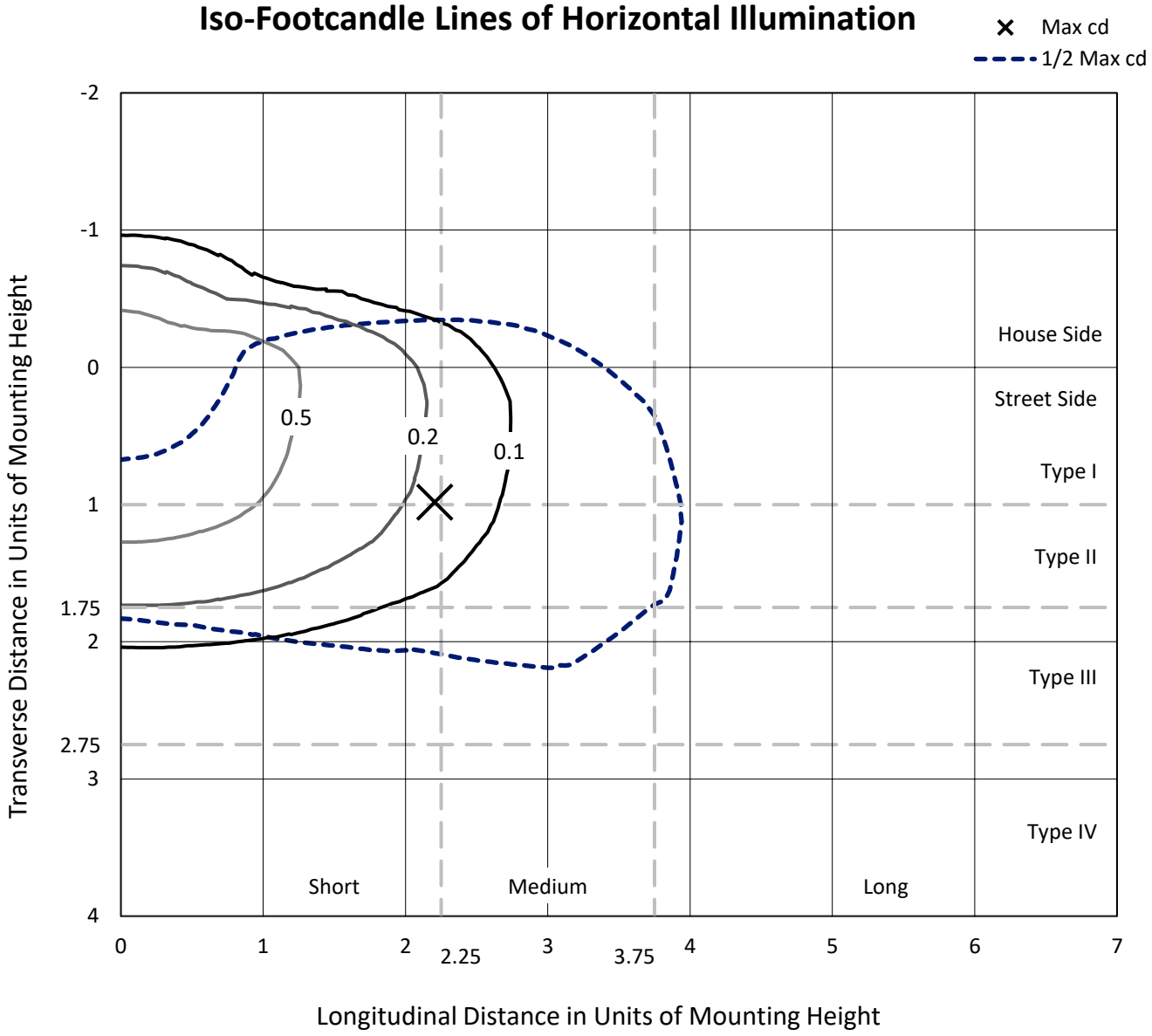
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
Type III - Short - N/A

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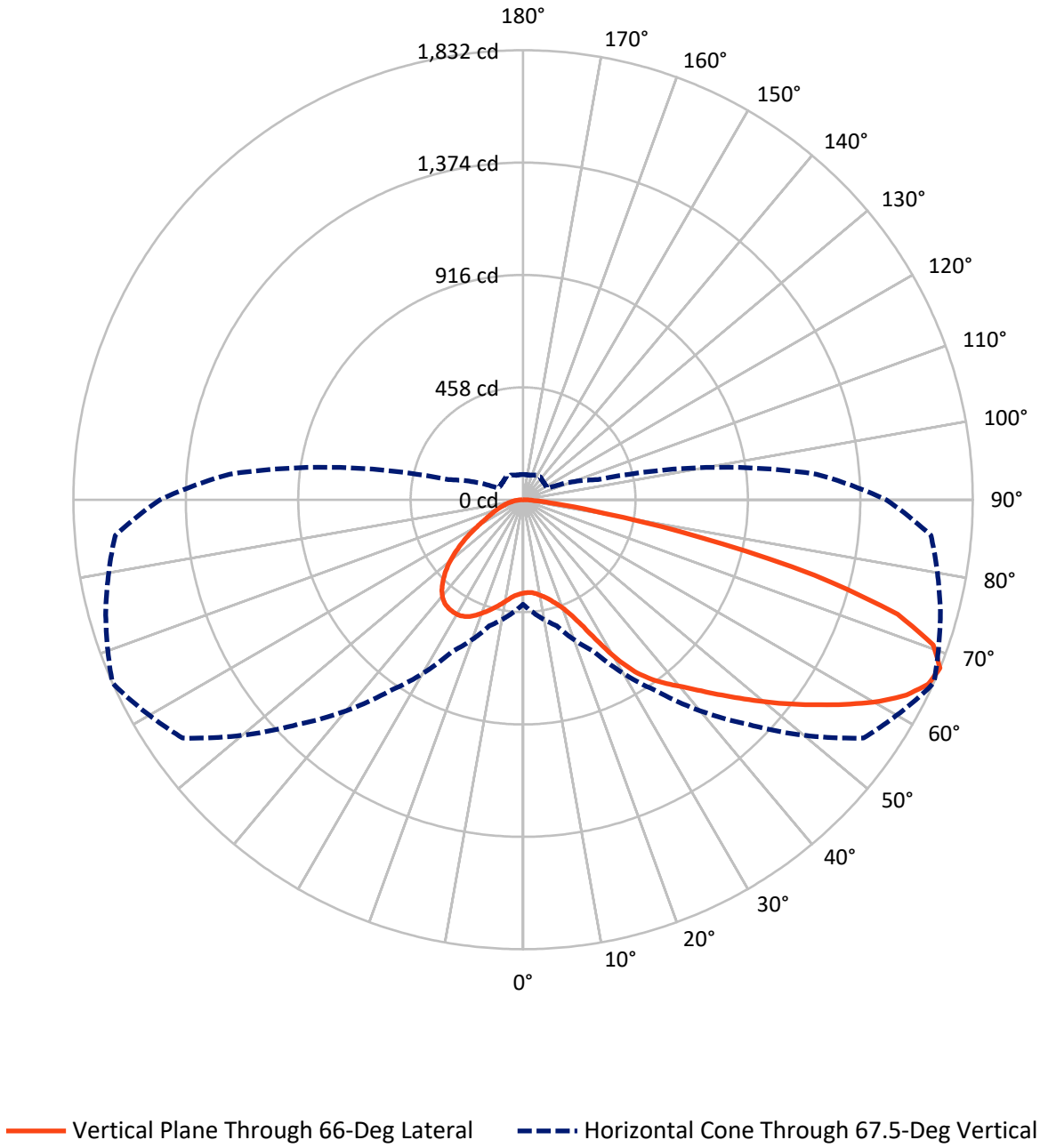
Luminous Intensity Polar Plot



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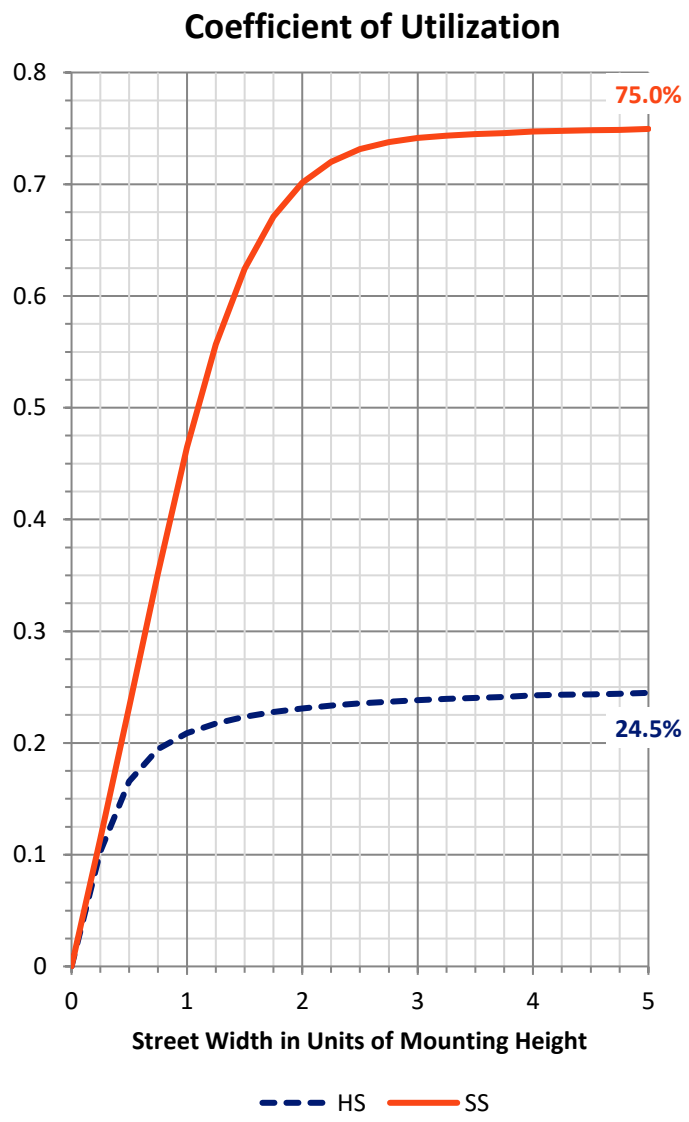
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	853.1	0.0	853.1
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	2577.9	0.0	2577.9
	% Fixture	75.1	0.0	75.1
Total	Lumens	3431.0	0.0	3431.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.7	1.1
10°-20°	124.7	3.6
20°-30°	240.3	7.0
30°-40°	421.3	12.3
40°-50°	626.3	18.3
50°-60°	793.9	23.1
60°-70°	776.8	22.6
70°-80°	370.5	10.8
80°-90°	39.6	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°	3431.0	100.0
0°-180°	3431.0	100.0



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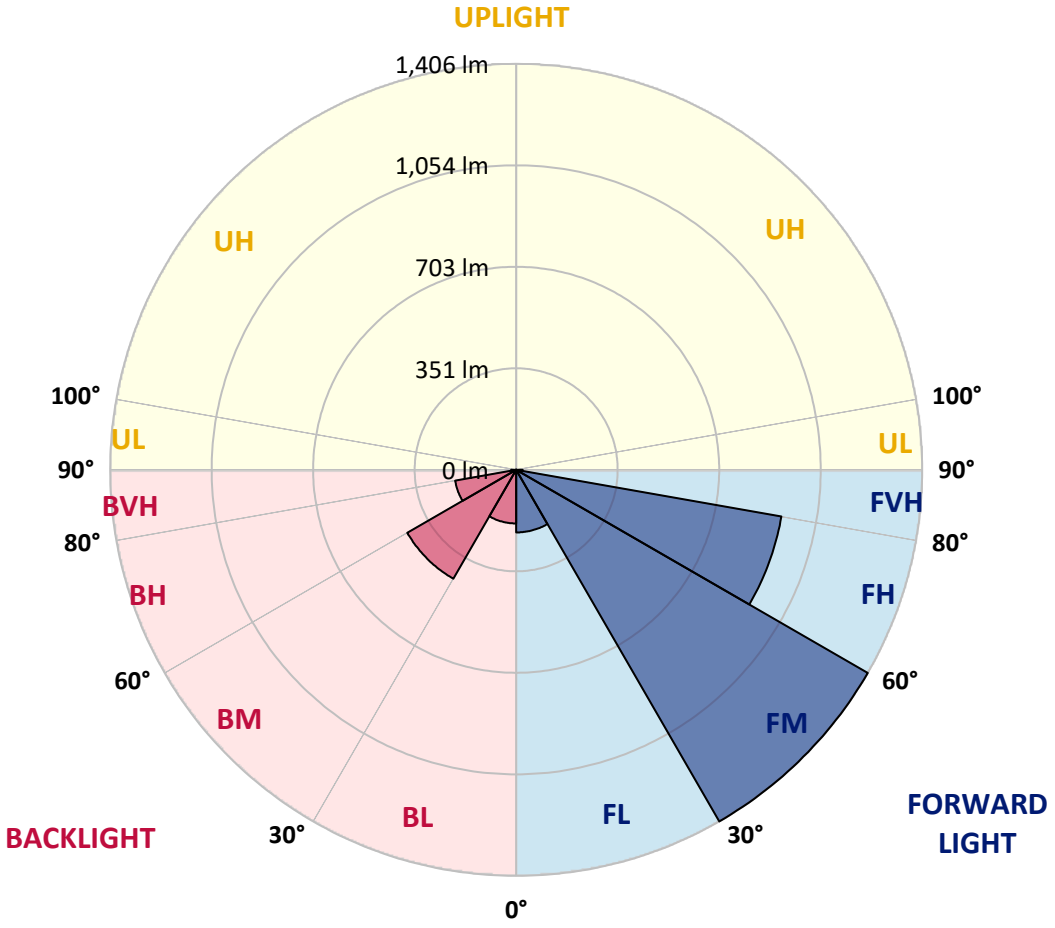
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	216.8	6.3			
FM	(30°-60°)	1406.0	41.0			
FH	(60°-80°)	932.6	27.2			G1/1800
FVH	(80°-90°)	22.5	0.7			G1/100
BL	(0°-30°)	185.8	5.4	B1/500		
BM	(30°-60°)	435.4	12.7	B1/1000		
BH	(60°-80°)	214.7	6.3	B1/500		G1/500
BVH	(80°-90°)	17.1	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°	380.5	380.5	380.5	380.5	380.5	380.5	380.5	380.5	*380.5*	380.5
2.5°	376.6	378.7	378.2	377.3	377.1	377.5	378.0	378.6	*378.4*	379.3
5°	375.5	377.7	377.5	377.5	378.2	379.6	380.5	381.4	*380.5*	381.6
7.5°	376.2	377.8	378.6	379.3	381.1	383.8	386.0	387.9	*386.9*	388.1
10°	385.4	386.7	387.4	387.4	388.7	391.7	393.9	397.5	*396.6*	398.6
12.5°	402.2	403.4	403.4	402.7	403.6	405.6	406.3	410.3	*408.7*	411.9
15°	422.7	425.2	423.3	422.0	422.4	424.3	424.2	427.2	*425.6*	428.3
17.5°	445.4	448.7	445.4	445.3	444.5	446.7	446.9	449.6	*446.7*	448.7
20°	472.3	476.8	474.1	475.0	473.4	474.3	475.2	479.1	*474.6*	476.1
22.5°	510.2	515.6	512.7	516.1	515.0	514.3	514.1	521.2	*514.1*	514.7
25°	565.3	571.8	566.8	571.4	571.4	573.8	576.5	585.5	*573.8*	570.4
27.5°	646.8	653.3	643.4	646.3	645.4	651.1	648.2	670.6	*658.0*	652.4
30°	744.9	756.4	737.7	736.9	736.0	745.2	749.4	764.2	*751.4*	745.8
32.5°	850.9	862.9	840.6	834.1	830.7	836.3	832.8	844.7	*835.9*	827.2
35°	963.0	974.9	953.6	941.0	927.3	915.6	903.3	906.4	*898.1*	884.9
37.5°	1069.0	1090.8	1068.3	1054.7	1029.5	1006.6	972.4	958.1	*950.4*	938.3
40°	1177.0	1189.4	1172.3	1160.7	1133.3	1097.5	1042.7	1012.6	*1002.1*	990.4
42.5°	1256.5	1268.4	1259.2	1251.2	1229.8	1188.1	1117.3	1079.6	*1064.5*	1051.3
45°	1319.6	1328.4	1322.6	1325.5	1316.3	1275.9	1194.6	1151.5	*1135.9*	1119.8
47.5°	1345.0	1354.3	1363.5	1380.7	1396.3	1366.6	1277.7	1229.4	*1212.8*	1196.4
50°	1342.1	1351.6	1378.3	1414.7	1463.4	1453.5	1365.3	1312.3	*1297.0*	1278.3
52.5°	1319.0	1329.8	1364.1	1424.6	1502.2	1518.6	1454.6	1398.0	*1383.5*	1361.2
55°	1258.4	1264.9	1316.3	1402.1	1511.4	1564.0	1542.0	1489.2	*1474.8*	1443.6
57.5°	1146.1	1155.5	1230.3	1341.4	1488.3	1594.8	1618.8	1585.1	*1571.2*	1526.3
60°	999.6	1014.5	1100.2	1239.3	1429.5	1594.6	1688.6	1679.4	*1667.8*	1607.8
62.5°	833.7	851.0	933.4	1095.1	1326.8	1549.4	1732.2	1758.3	*1752.4*	1683.0
65°	640.3	652.2	734.2	908.5	1166.9	1452.2	1737.2	1812.2	*1813.3*	1740.1
67.5°	*426.3*	*460.6*	*531.8*	*681.8*	*952.7*	*1293.4*	*1692.9*	*1821.1*	*1831.5*	*1759.8*
70°	208.0	253.1	322.9	443.1	681.8	1049.9	1577.0	1748.6	*1771.8*	1702.4
72.5°	86.3	100.9	139.0	218.7	391.4	708.4	1344.1	1552.1	*1595.2*	1508.5
75°	58.2	63.1	79.5	112.1	178.3	349.4	969.3	1157.3	*1226.7*	1139.3
77.5°	44.9	48.0	57.9	78.4	106.0	132.1	518.8	697.5	*733.3*	678.9
80°	35.3	37.7	43.3	57.1	75.2	70.7	176.8	316.0	*336.7*	282.5
82.5°	30.6	31.5	31.0	38.8	49.9	41.3	58.0	116.6	*128.7*	93.4
85°	22.2	24.7	25.8	24.0	26.5	20.9	23.8	41.3	*45.4*	40.6
87.5°	9.0	13.3	16.4	15.5	9.7	5.9	7.4	12.1	*13.9*	15.1
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°
380.5	0°	380.5	380.5	380.5	380.5	380.5	380.5	380.5	380.5	380.5	380.5
380.7	2.5°	380.9	382.2	383.1	384.1	384.9	386.0	388.1	389.4	389.6	390.5
383.6	5°	384.3	386.1	388.1	391.0	394.2	396.9	401.1	404.0	405.1	406.0
390.6	7.5°	391.7	394.2	397.8	402.9	407.6	411.2	416.2	419.7	423.1	424.3
401.8	10°	402.7	406.3	411.5	418.4	423.4	428.1	433.4	436.2	439.7	441.1
415.2	12.5°	416.4	420.2	427.1	436.6	441.3	444.5	446.3	445.6	446.3	447.6
431.2	15°	432.1	436.2	444.0	454.3	457.5	454.6	450.7	447.1	446.5	446.9
450.7	17.5°	450.7	453.7	462.7	471.4	469.1	457.2	448.5	442.7	439.9	438.9
475.5	20°	476.6	476.6	484.0	489.4	473.7	453.6	440.0	430.7	424.7	422.2
509.4	22.5°	508.2	505.3	510.0	506.2	472.8	443.5	424.7	408.5	399.5	395.9
556.8	25°	548.2	544.8	543.5	520.1	466.4	427.4	396.9	377.3	369.4	367.4
625.2	27.5°	608.6	599.9	583.5	527.6	454.5	402.2	364.5	346.3	341.8	342.0
713.0	30°	689.0	671.7	631.5	528.9	435.0	366.5	331.3	318.4	316.2	317.1
786.7	32.5°	763.4	747.0	680.5	523.1	405.1	331.5	301.6	292.9	289.7	290.8
842.9	35°	821.8	817.3	725.9	515.0	368.3	298.7	274.9	267.5	261.2	259.8
895.9	37.5°	877.0	875.2	760.0	503.7	331.9	275.4	253.5	243.7	234.5	229.5
954.5	40°	937.6	935.8	782.4	486.2	299.6	255.3	234.2	221.4	210.0	200.8
1020.9	42.5°	1005.7	995.1	793.0	461.1	272.2	238.1	218.5	201.2	186.2	177.7
1095.8	45°	1080.2	1056.2	792.8	429.2	249.1	222.4	201.7	177.2	163.3	155.4
1172.8	47.5°	1159.1	1114.6	783.1	393.9	226.8	205.1	175.8	157.0	147.8	143.0
1256.5	50°	1240.6	1169.2	766.5	353.3	203.9	185.5	159.5	146.7	139.7	135.2
1339.4	52.5°	1317.2	1218.8	746.5	307.4	180.6	166.4	152.3	142.4	135.0	130.0
1419.8	55°	1388.4	1261.5	718.2	260.3	161.7	153.6	148.9	140.6	132.1	126.2
1501.4	57.5°	1451.7	1289.3	669.3	216.1	148.2	144.8	145.3	137.5	127.8	122.8
1581.8	60°	1504.3	1309.6	597.0	175.2	137.2	136.1	139.7	131.8	120.4	114.6
1649.8	62.5°	1535.9	1309.3	508.4	143.5	127.8	128.2	132.3	124.6	113.0	107.6
1685.3	65°	1533.2	1277.2	411.0	122.8	118.8	119.2	124.6	116.6	106.9	103.7
1667.5	67.5°	*1478.9*	*1199.0*	*315.3*	*109.2*	*108.9*	*110.5*	*116.8*	*111.2*	*103.1*	*102.8*
1561.1	70°	1332.0	1036.5	227.1	98.4	98.6	100.9	109.2	107.8	101.1	101.9
1312.5	72.5°	1068.1	790.3	152.5	87.1	87.2	91.0	102.0	105.1	99.1	108.7
931.3	75°	711.3	492.8	98.1	75.0	75.2	80.0	95.7	99.9	93.7	108.3
484.6	77.5°	341.8	221.5	71.0	63.1	63.1	67.6	82.7	89.4	79.9	84.2
155.8	80°	118.1	83.3	55.9	50.8	49.8	52.8	69.8	77.5	68.9	63.5
50.8	82.5°	46.5	43.3	44.9	39.5	35.9	37.9	54.3	64.0	50.7	45.8
28.7	85°	26.7	28.1	31.7	26.1	20.7	23.3	39.8	46.0	38.2	33.7
9.4	87.5°	7.2	9.9	14.6	13.5	9.4	9.9	18.9	25.4	22.0	16.9
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°
380.5
390.3
405.8
424.5
441.8
448.0
448.1
440.2
421.6
395.3
367.7
342.5
320.2
292.2
260.8
229.7
201.7
178.3
155.0
141.9
133.6
127.8
123.8
119.5
112.1
106.0
103.5
103.3
101.7
110.1
109.2
77.2
59.5
45.6
34.4
17.5
0.0

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