

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: P945453

Luminaire Tested: **GALN-SB1B-927-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945453
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
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-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3492 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

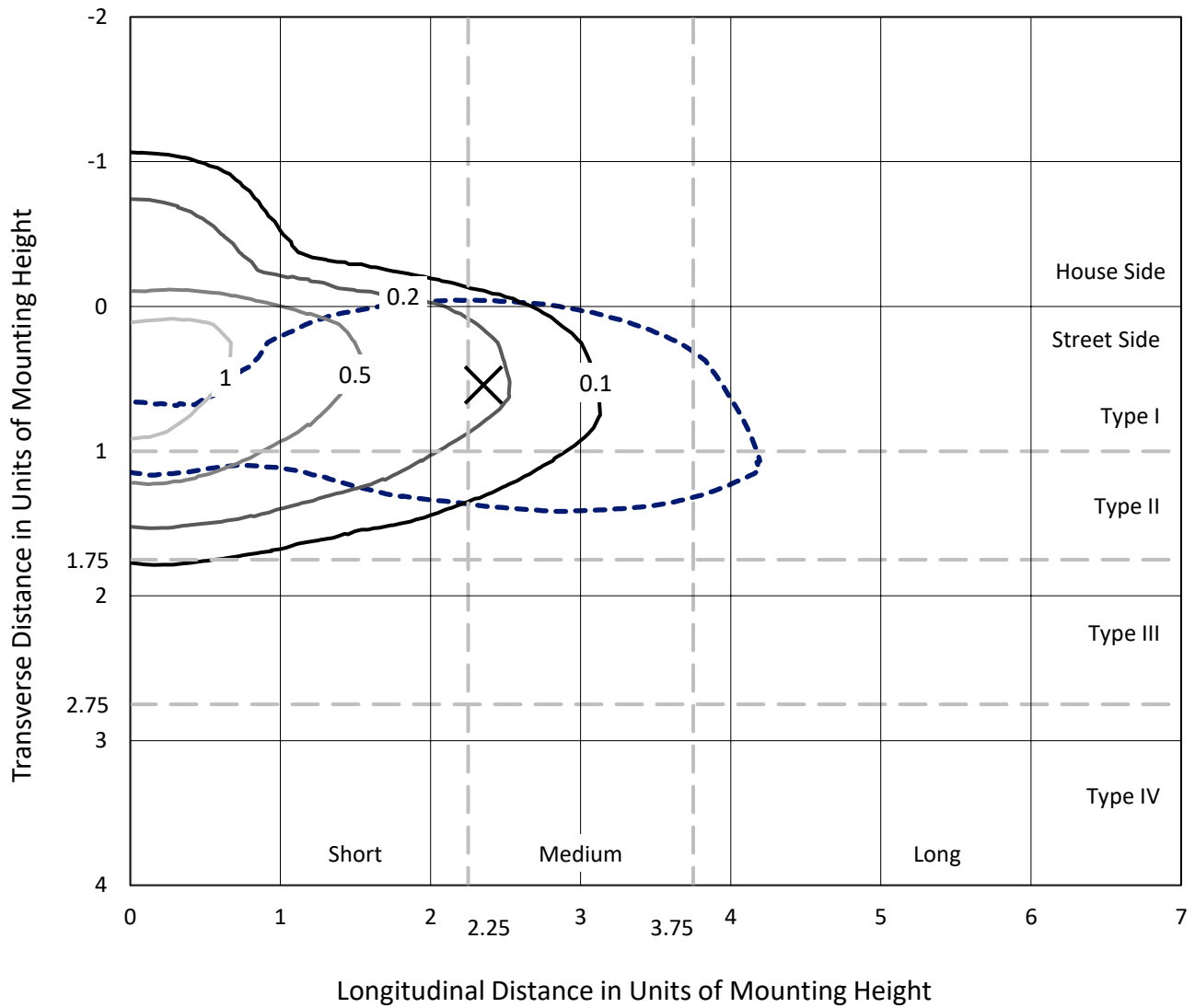
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

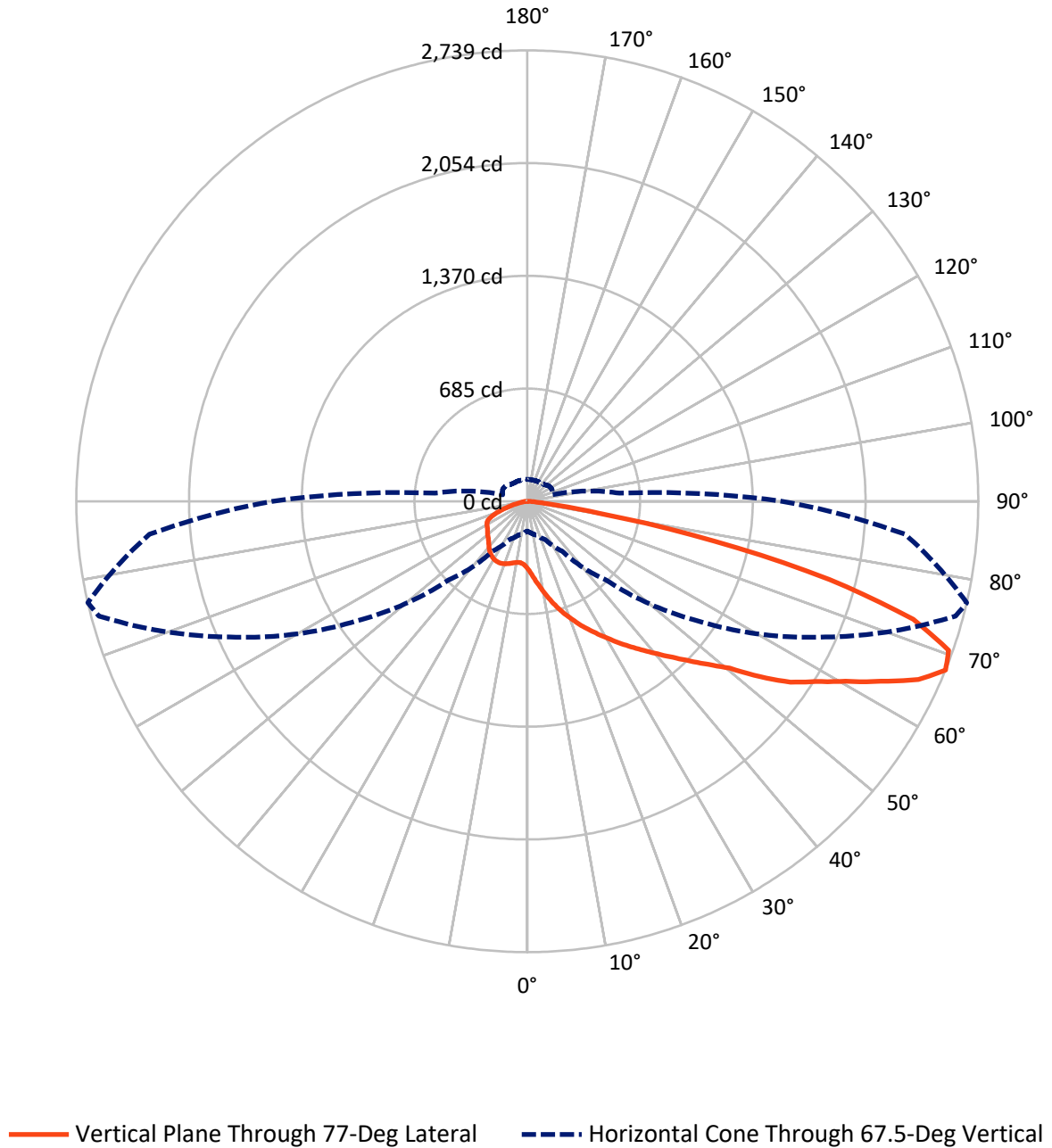
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	660.5	0.0	660.5
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	2831.5	0.0	2831.5
	% Fixture	81.1	0.0	81.1
Total	Lumens	3492.0	0.0	3492.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.9	1.3
10°-20°	157.8	4.5
20°-30°	297.9	8.5
30°-40°	479.9	13.7
40°-50°	656.4	18.8
50°-60°	740.4	21.2
60°-70°	691.1	19.8
70°-80°	378.8	10.8
80°-90°	45.7	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°	3492.0	100.0
0°-180°	3492.0	100.0



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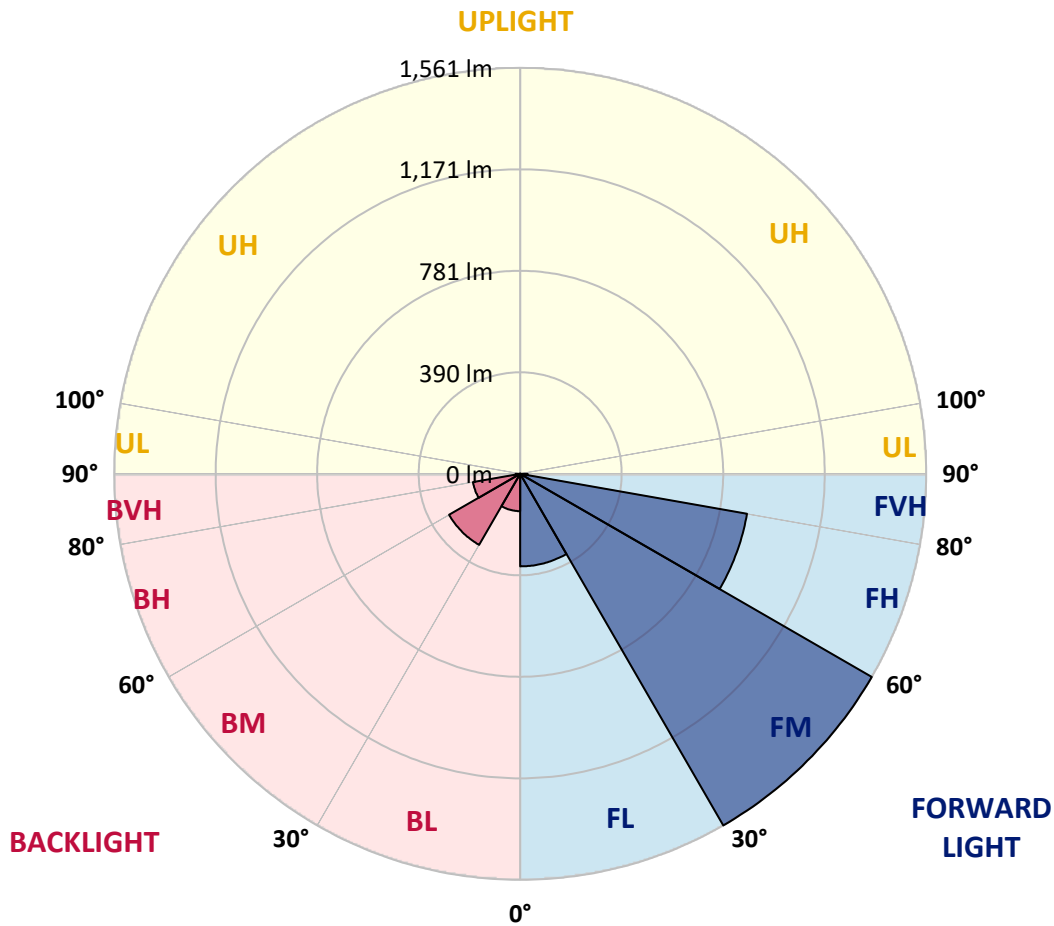
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	356.0	10.2			
FM (30°-60°)	1561.2	44.7			
FH (60°-80°)	885.7	25.4			G1/1800
FVH (80°-90°)	28.6	0.8			G1/100
BL (0°-30°)	143.6	4.1	B1/500		
BM (30°-60°)	315.5	9.0	B1/1000		
BH (60°-80°)	184.3	5.3	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	409.7	409.7	409.7	409.7	409.7	409.7	409.7	409.7	409.7	409.7
2.5°	513.0	516.6	512.1	512.1	497.0	489.0	473.9	462.4	441.6	438.0
5°	606.4	610.9	604.6	601.9	584.0	567.6	542.2	517.2	480.2	476.4
7.5°	678.7	684.4	678.8	676.0	660.1	641.7	612.0	577.0	524.9	517.5
10°	737.6	738.5	736.7	737.8	725.3	710.2	679.7	639.0	573.9	563.8
12.5°	771.0	775.1	778.7	785.2	783.0	773.7	746.3	697.6	625.8	612.9
15°	786.6	793.8	802.0	816.9	829.0	831.3	810.4	760.5	678.7	663.0
17.5°	792.2	799.1	811.9	833.5	859.5	876.9	867.6	821.6	730.9	712.9
20°	820.5	822.5	830.3	850.8	878.9	907.9	915.0	880.4	782.7	762.3
22.5°	881.1	877.1	879.3	888.7	908.8	937.0	953.0	932.3	835.8	812.4
25°	981.1	969.6	958.1	947.2	957.5	973.4	991.6	984.2	891.5	861.8
27.5°	1107.5	1093.4	1068.0	1032.5	1020.1	1025.7	1033.8	1032.3	943.1	913.0
30°	1231.9	1215.5	1185.2	1133.8	1101.0	1086.2	1080.1	1075.9	999.2	967.1
32.5°	1331.2	1318.2	1288.5	1231.0	1183.4	1158.1	1137.8	1123.0	1057.7	1025.7
35°	1418.1	1406.0	1371.9	1309.2	1257.5	1230.6	1203.9	1172.4	1118.7	1086.2
37.5°	1497.4	1485.3	1438.6	1373.4	1321.3	1302.7	1278.9	1225.4	1179.8	1149.1
40°	1547.5	1544.8	1501.2	1427.3	1373.2	1364.0	1356.1	1286.8	1247.5	1219.1
42.5°	1560.3	1566.2	1531.6	1470.9	1419.3	1411.9	1430.5	1356.4	1323.6	1296.4
45°	1529.5	1546.6	1523.9	1482.6	1452.1	1448.2	1496.5	1432.5	1407.8	1382.9
47.5°	1451.4	1480.4	1471.1	1465.3	1461.0	1478.1	1554.5	1513.2	1503.1	1481.5
50°	1293.9	1348.8	1365.3	1401.7	1443.5	1501.3	1607.3	1601.4	1614.5	1592.7
52.5°	1021.5	1097.2	1192.4	1283.6	1389.8	1493.6	1665.4	1727.9	1783.4	1771.5
55°	843.2	877.3	950.5	1117.8	1285.6	1461.0	1691.5	1830.1	1951.1	1940.4
57.5°	706.2	736.7	781.8	921.5	1128.0	1386.9	1707.7	1892.5	2065.9	2064.8
60°	559.3	591.6	637.7	736.7	944.0	1258.9	1704.1	1963.5	2212.5	2221.5
62.5°	393.5	429.0	480.2	572.5	756.0	1093.1	1630.6	2014.9	2385.0	2409.5
65°	258.7	282.1	320.7	400.3	563.3	879.8	1490.2	2021.6	2569.5	2611.0
67.5°	181.3	190.3	213.1	256.3	371.3	674.7	1266.5	1952.5	2692.7	2739.3
70°	141.5	146.0	157.5	174.8	233.3	453.7	970.5	1773.0	2666.3	2715.0
72.5°	122.2	126.5	130.9	133.0	156.5	280.1	657.4	1482.4	2418.5	2451.5
75°	110.9	111.9	115.5	114.8	119.3	181.7	379.4	1080.1	1908.2	1896.8
77.5°	93.2	94.6	100.6	99.7	106.0	124.2	197.0	697.0	1237.1	1159.9
80°	79.0	79.7	86.2	85.1	92.1	89.9	100.6	355.3	524.7	444.5
82.5°	27.4	33.9	65.8	67.8	70.3	54.4	58.0	144.9	160.2	122.8
85°	13.3	14.2	33.5	47.6	47.4	27.4	28.3	51.7	50.5	39.7
87.5°	2.2	2.7	4.0	18.6	14.8	7.2	9.7	10.1	10.5	9.0
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°
409.7	0°	409.7	409.7	409.7	409.7	409.7	409.7	409.7	409.7	409.7	409.7
424.3	2.5°	414.2	405.2	386.3	368.8	355.1	341.9	334.6	328.2	324.6	323.9
444.1	5°	425.4	406.8	372.4	343.4	324.5	310.4	303.0	298.3	296.0	294.5
470.8	7.5°	441.4	414.2	365.2	332.2	312.4	302.3	298.5	297.8	297.6	297.8
503.1	10°	463.6	426.3	364.5	329.5	312.9	307.3	307.2	307.3	308.1	308.2
538.2	12.5°	487.6	438.7	367.4	331.8	319.8	316.7	316.2	316.0	316.5	316.9
573.8	15°	513.7	455.1	372.2	336.9	327.3	324.1	323.6	322.5	322.3	322.1
611.1	17.5°	540.6	471.4	377.6	342.3	332.2	327.7	325.7	323.2	321.2	320.7
649.6	20°	567.8	487.4	381.4	345.0	332.6	326.3	322.3	318.0	314.5	312.6
688.6	22.5°	596.8	504.2	383.8	344.3	329.3	320.7	313.5	308.4	303.2	299.8
727.9	25°	625.1	518.8	383.6	340.5	323.0	312.0	302.8	296.3	289.1	285.5
768.4	27.5°	652.3	531.9	379.1	333.8	314.0	301.7	290.8	283.0	276.0	272.5
809.3	30°	680.5	542.9	372.0	324.1	303.4	289.9	277.8	271.1	264.8	261.6
852.6	32.5°	708.4	553.0	362.1	312.0	291.1	278.1	266.2	260.1	256.3	256.3
899.1	35°	738.0	560.1	349.0	298.0	278.1	265.7	256.3	252.7	252.4	250.2
948.3	37.5°	769.1	564.6	332.9	283.5	265.3	253.6	250.7	246.4	242.8	238.1
1002.4	40°	802.0	569.1	313.6	268.6	251.8	245.3	244.1	238.3	228.0	216.5
1063.7	42.5°	841.8	572.1	293.6	253.6	237.6	235.4	237.2	227.3	210.9	202.2
1137.6	45°	887.9	577.2	275.2	238.8	223.0	223.0	230.5	217.6	204.0	198.6
1222.0	47.5°	947.8	588.9	258.1	222.6	209.5	213.1	215.8	205.9	198.3	191.6
1324.7	50°	1034.3	617.0	240.5	206.2	199.2	206.4	202.6	196.8	188.0	182.6
1488.0	52.5°	1141.7	633.6	224.8	191.4	190.3	197.6	192.2	186.7	180.1	172.9
1611.8	55°	1214.9	636.7	211.6	180.6	184.4	183.7	181.7	176.8	173.2	163.7
1734.1	57.5°	1296.8	642.8	200.8	174.1	180.6	172.7	172.0	167.8	163.1	156.6
1883.1	60°	1394.6	652.3	191.4	171.6	177.4	165.5	161.9	160.2	155.6	152.3
2062.5	62.5°	1501.3	661.0	181.9	172.0	173.6	158.4	153.0	152.5	149.6	148.5
2230.8	65°	1574.2	637.4	170.0	171.6	167.6	151.2	144.4	144.2	141.9	141.5
2303.8	67.5°	1548.8	562.6	153.9	166.6	161.5	144.0	136.5	135.7	132.7	132.8
2227.6	70°	1421.5	455.9	131.8	154.1	153.9	137.5	128.2	125.8	121.7	122.4
1936.8	72.5°	1182.8	337.8	102.0	133.4	141.9	131.6	118.6	114.8	109.6	110.3
1429.8	75°	854.2	229.6	74.3	101.5	123.5	124.6	109.2	102.7	96.4	97.5
795.8	77.5°	437.1	130.1	54.6	69.9	97.0	113.2	100.8	92.1	90.7	100.8
229.5	80°	142.6	65.3	37.9	49.0	63.6	92.7	88.3	78.4	78.1	80.4
48.1	82.5°	42.5	27.6	24.3	32.3	35.1	71.0	76.2	59.3	51.0	53.7
16.0	85°	14.6	13.3	13.9	16.0	16.8	41.6	53.4	39.3	37.1	40.9
3.6	87.5°	3.4	4.7	4.0	3.6	3.6	10.1	20.7	16.4	22.7	15.1
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>
409.7
323.9
294.4
298.3
308.4
317.1
321.9
321.2
313.3
299.9
285.5
272.4
261.4
256.5
249.7
237.4
214.9
202.4
199.5
191.4
182.1
171.4
163.9
154.5
153.2
148.5
141.3
132.8
123.1
110.1
97.9
99.3
69.0
55.5
40.4
14.6
0.0

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