

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: P945180

Luminaire Tested: **GALN-SB1A-950-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945180  
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-SB1A-950-U-T2R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 5000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

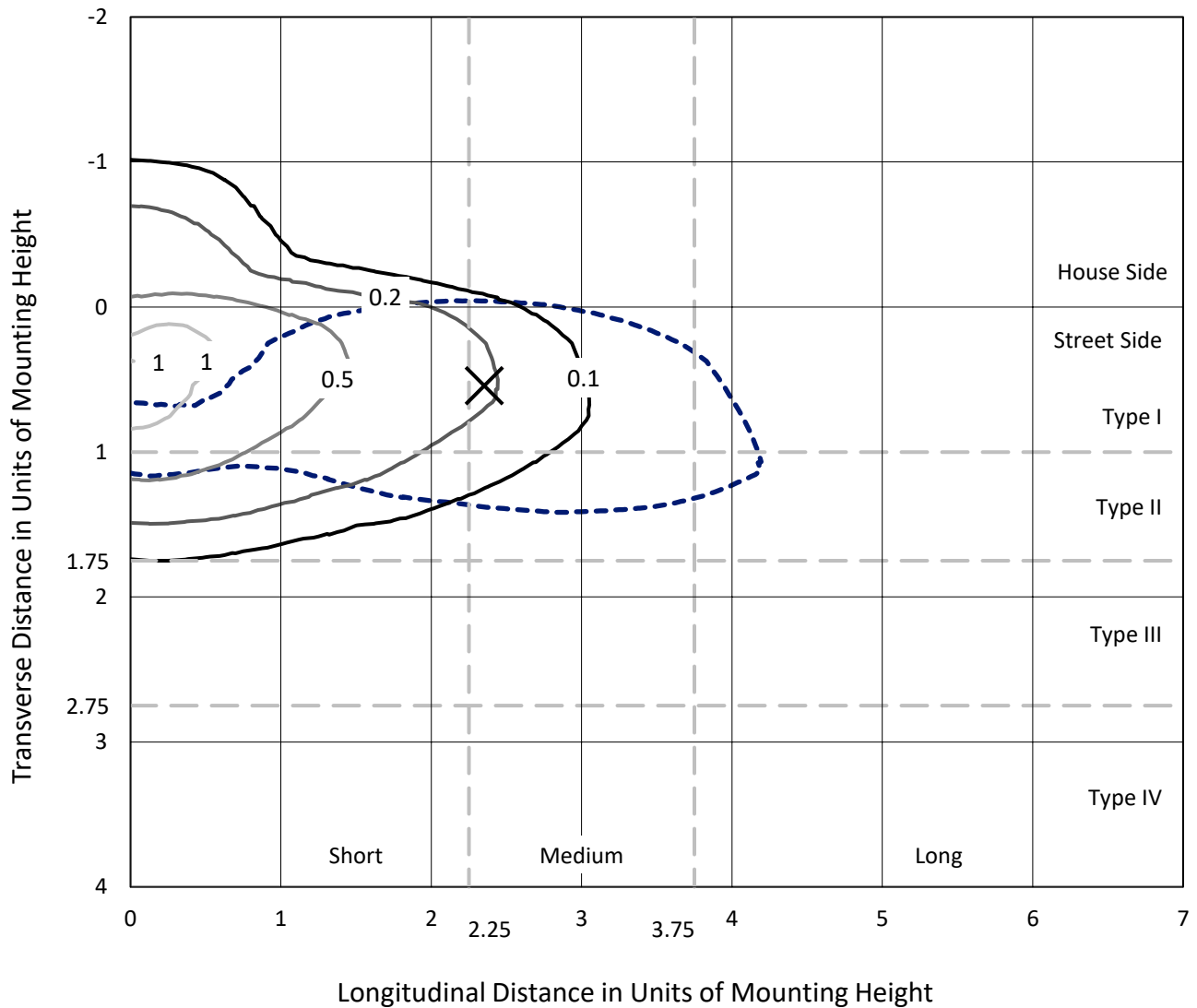
Lumens per Lamp: N/A  
Luminaire Lumens: 3179 lumens  
Efficiency: N/A  
Efficacy: 102.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

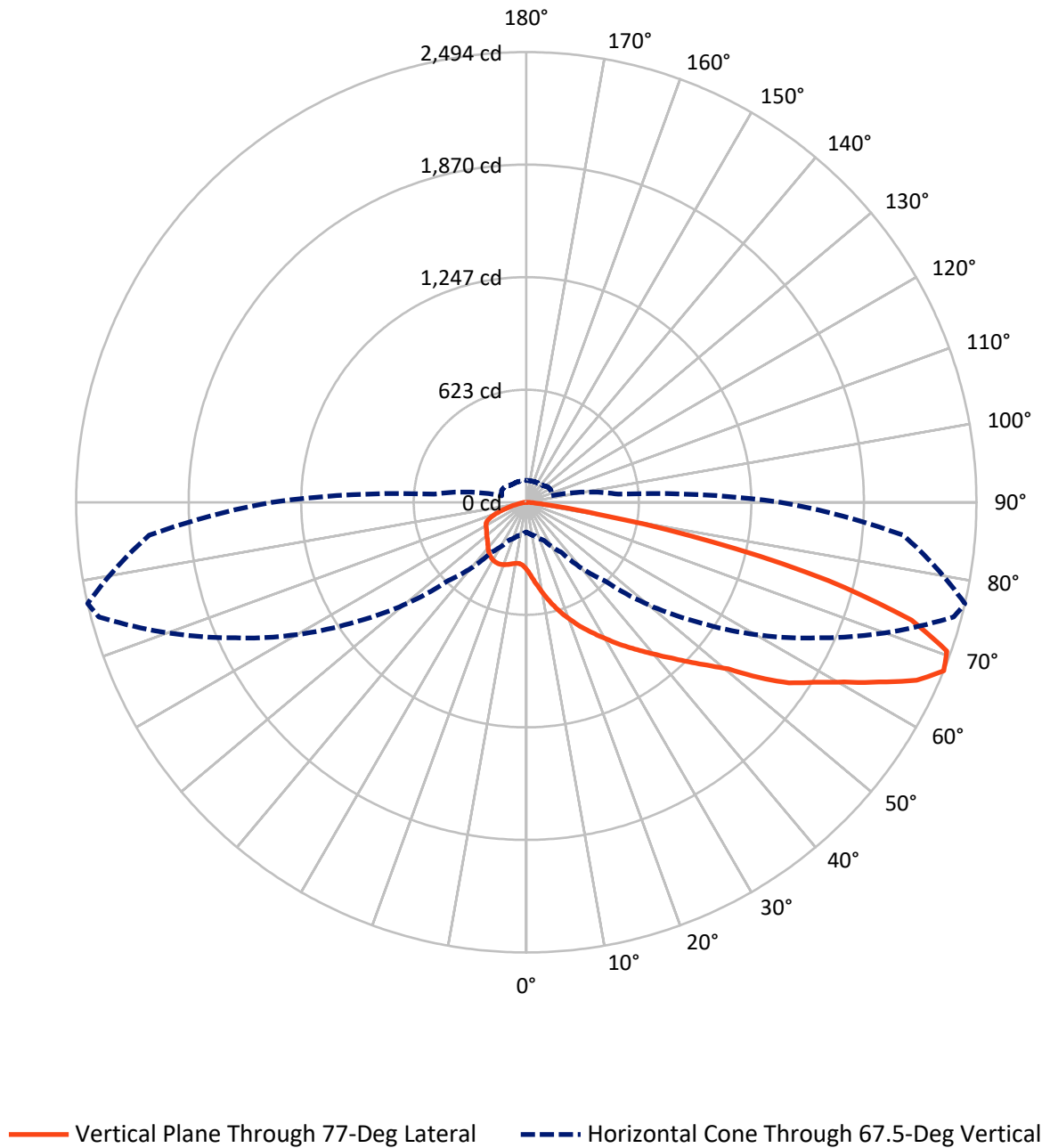
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	601.3	0.0	601.3
	% Fixture	18.9	0.0	18.9
<b>Street Side</b>	Lumens	2577.7	0.0	2577.7
	% Fixture	81.1	0.0	81.1
<b>Total</b>	Lumens	3179.0	0.0	3179.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.0	1.3
10°-20°	143.6	4.5
20°-30°	271.2	8.5
30°-40°	436.9	13.7
40°-50°	597.6	18.8
50°-60°	674.1	21.2
60°-70°	629.2	19.8
70°-80°	344.9	10.8
80°-90°	41.6	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°	3179.0	100.0
0°-180°	3179.0	100.0

**Coefficient of Utilization**



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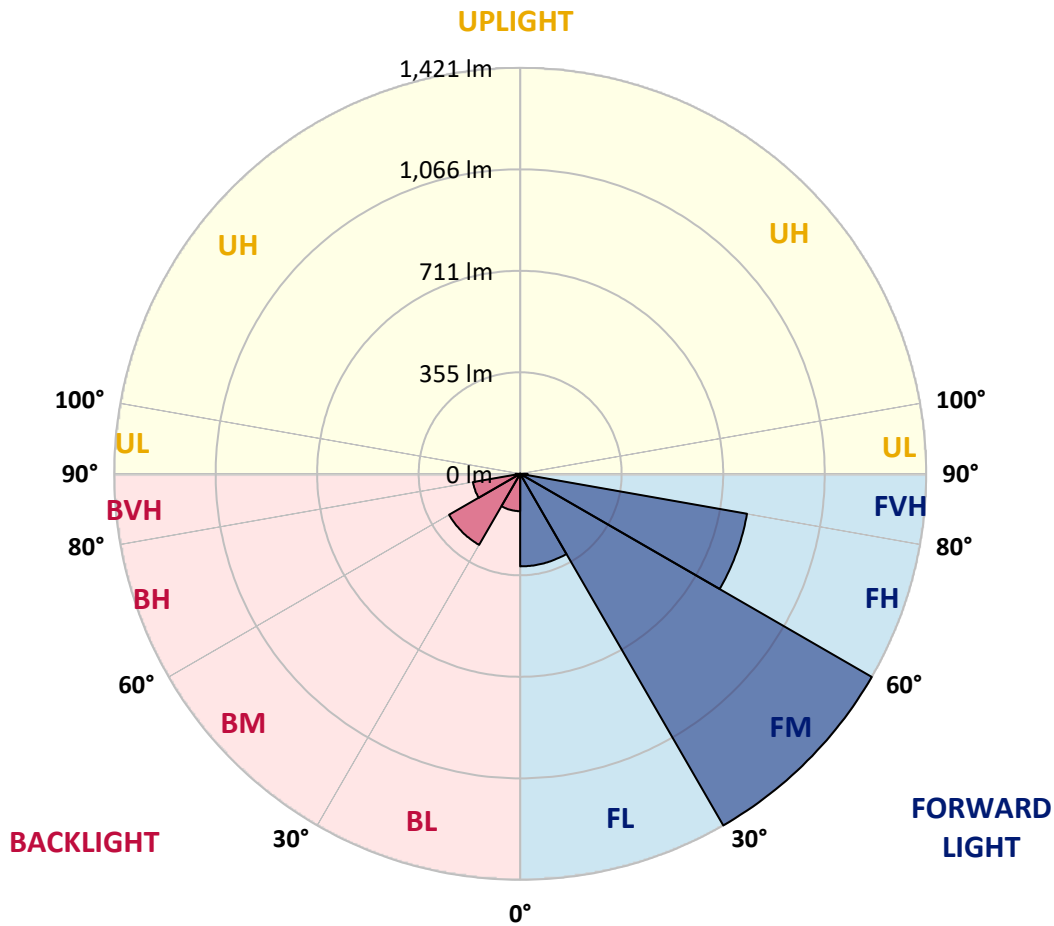
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	324.1	10.2			
FM (30°-60°)	1421.3	44.7			
FH (60°-80°)	806.3	25.4			G1/1800
FVH (80°-90°)	26.0	0.8			G1/100
BL (0°-30°)	130.7	4.1	B1/500		
BM (30°-60°)	287.2	9.0	B1/1000		
BH (60°-80°)	167.8	5.3	B1/500		G1/500
BVH (80°-90°)	15.6	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°	373.0	373.0	373.0	373.0	373.0	373.0	373.0	373.0	373.0	373.0
2.5°	467.0	470.3	466.2	466.2	452.4	445.2	431.4	420.9	402.0	398.8
5°	552.0	556.1	550.4	547.9	531.7	516.7	493.6	470.8	437.2	433.7
7.5°	617.8	623.1	618.0	615.4	600.9	584.2	557.1	525.3	477.9	471.1
10°	671.5	672.3	670.7	671.7	660.3	646.5	618.8	581.7	522.5	513.3
12.5°	701.8	705.6	708.9	714.8	712.8	704.3	679.4	635.1	569.7	557.9
15°	716.1	722.7	730.1	743.7	754.7	756.8	737.8	692.3	617.8	603.6
17.5°	721.2	727.4	739.1	758.8	782.4	798.3	789.8	748.0	665.4	649.0
20°	747.0	748.8	755.8	774.5	800.1	826.6	833.0	801.5	712.5	694.0
22.5°	802.1	798.5	800.5	809.0	827.4	853.0	867.6	848.7	760.9	739.6
25°	893.2	882.7	872.2	862.3	871.7	886.1	902.7	896.0	811.6	784.6
27.5°	1008.2	995.4	972.3	940.0	928.6	933.7	941.1	939.8	858.6	831.2
30°	1121.4	1106.5	1078.9	1032.2	1002.3	988.9	983.3	979.5	909.6	880.4
32.5°	1211.9	1200.1	1173.0	1120.6	1077.3	1054.3	1035.8	1022.3	962.9	933.7
35°	1291.0	1280.0	1249.0	1191.8	1144.7	1120.3	1096.0	1067.3	1018.4	988.9
37.5°	1363.2	1352.2	1309.7	1250.3	1202.8	1185.9	1164.3	1115.5	1074.0	1046.1
40°	1408.8	1406.3	1366.6	1299.3	1250.1	1241.7	1234.5	1171.5	1135.7	1109.8
42.5°	1420.4	1425.9	1394.3	1339.0	1292.1	1285.4	1302.3	1234.8	1205.0	1180.2
45°	1392.4	1408.0	1387.3	1349.7	1322.0	1318.4	1362.3	1304.1	1281.6	1259.0
47.5°	1321.3	1347.7	1339.2	1334.0	1330.0	1345.6	1415.2	1377.6	1368.4	1348.7
50°	1177.9	1227.9	1242.9	1276.0	1314.1	1366.8	1463.3	1457.8	1469.8	1450.0
52.5°	929.9	998.9	1085.5	1168.5	1265.2	1359.7	1516.1	1573.0	1623.6	1612.8
55°	767.7	798.7	865.3	1017.6	1170.3	1330.0	1539.9	1666.1	1776.2	1766.5
57.5°	642.9	670.7	711.7	838.9	1026.9	1262.6	1554.7	1722.9	1880.7	1879.7
60°	509.2	538.6	580.6	670.7	859.4	1146.1	1551.4	1787.5	2014.1	2022.3
62.5°	358.2	390.6	437.2	521.2	688.2	995.1	1484.4	1834.3	2171.2	2193.5
65°	235.5	256.8	291.9	364.5	512.8	801.0	1356.6	1840.4	2339.2	2377.0
67.5°	165.1	173.3	194.0	233.3	338.0	614.2	1153.0	1777.5	2451.3	2493.8
70°	128.8	132.9	143.4	159.2	212.3	413.0	883.5	1614.1	2427.3	2471.6
72.5°	111.3	115.2	119.1	121.1	142.4	255.0	598.5	1349.5	2201.7	2231.7
75°	100.9	101.9	105.2	104.5	108.6	165.4	345.4	983.3	1737.1	1726.8
77.5°	84.8	86.2	91.6	90.7	96.5	113.1	179.4	634.6	1126.2	1056.0
80°	71.9	72.5	78.4	77.5	83.9	81.9	91.6	323.4	477.7	404.7
82.5°	24.9	30.9	59.9	61.7	64.0	49.6	52.8	131.9	145.9	111.8
85°	12.1	13.0	30.5	43.3	43.2	24.9	25.8	47.1	45.9	36.1
87.5°	2.0	2.5	3.6	16.9	13.5	6.6	8.9	9.2	9.5	8.2
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°
373.0	0°	373.0	373.0	373.0	373.0	373.0	373.0	373.0	373.0	373.0	373.0
386.3	2.5°	377.1	368.9	351.7	335.7	323.3	311.3	304.6	298.8	295.5	294.9
404.3	5°	387.3	370.4	339.0	312.6	295.4	282.6	275.8	271.6	269.4	268.1
428.6	7.5°	401.9	377.1	332.5	302.4	284.4	275.2	271.7	271.1	270.9	271.1
458.0	10°	422.1	388.1	331.8	300.0	284.9	279.8	279.6	279.8	280.4	280.6
490.0	12.5°	443.9	399.4	334.4	302.1	291.1	288.3	287.8	287.7	288.2	288.5
522.3	15°	467.7	414.3	338.9	306.7	298.0	295.0	294.6	293.6	293.4	293.2
556.3	17.5°	492.1	429.1	343.8	311.6	302.4	298.3	296.5	294.2	292.4	291.9
591.4	20°	516.9	443.7	347.2	314.1	302.8	297.0	293.4	289.5	286.4	284.5
626.9	22.5°	543.3	459.0	349.4	313.4	299.8	291.9	285.4	280.8	276.0	272.9
662.6	25°	569.1	472.3	349.2	310.0	294.1	284.1	275.7	269.8	263.2	259.9
699.6	27.5°	593.9	484.3	345.1	303.9	285.9	274.7	264.7	257.6	251.2	248.1
736.8	30°	619.5	494.3	338.7	295.0	276.2	263.9	252.9	246.8	241.1	238.1
776.2	32.5°	644.9	503.5	329.7	284.1	265.0	253.2	242.4	236.8	233.3	233.3
818.5	35°	671.8	509.9	317.7	271.3	253.2	241.9	233.3	230.1	229.7	227.8
863.3	37.5°	700.2	514.0	303.1	258.1	241.6	230.9	228.3	224.3	221.0	216.8
912.6	40°	730.1	518.1	285.5	244.5	229.2	223.3	222.2	216.9	207.6	197.1
968.3	42.5°	766.3	520.8	267.3	230.9	216.3	214.3	216.0	206.9	192.0	184.1
1035.6	45°	808.3	525.4	250.6	217.4	203.0	203.0	209.9	198.1	185.8	180.8
1112.4	47.5°	862.8	536.1	235.0	202.7	190.7	194.0	196.4	187.4	180.5	174.4
1206.0	50°	941.6	561.7	218.9	187.7	181.3	187.9	184.4	179.2	171.2	166.2
1354.6	52.5°	1039.4	576.8	204.6	174.3	173.3	179.9	174.9	170.0	163.9	157.4
1467.4	55°	1106.0	579.6	192.7	164.4	167.9	167.2	165.4	161.0	157.7	149.0
1578.6	57.5°	1180.5	585.2	182.8	158.5	164.4	157.2	156.5	152.8	148.5	142.6
1714.3	60°	1269.6	593.9	174.3	156.2	161.5	150.6	147.4	145.9	141.6	138.7
1877.6	62.5°	1366.8	601.7	165.6	156.5	158.0	144.2	139.3	138.8	136.2	135.2
2030.9	65°	1433.1	580.3	154.7	156.2	152.6	137.7	131.4	131.3	129.1	128.8
2097.3	67.5°	1409.9	512.2	140.1	151.6	147.0	131.1	124.2	123.6	120.8	120.9
2027.9	70°	1294.1	415.0	120.0	140.3	140.1	125.2	116.7	114.5	110.8	111.4
1763.2	72.5°	1076.8	307.5	92.9	121.4	129.1	119.8	108.0	104.5	99.8	100.4
1301.6	75°	777.7	209.1	67.6	92.4	112.4	113.4	99.4	93.5	87.8	88.8
724.5	77.5°	397.9	118.5	49.7	63.7	88.3	103.1	91.7	83.9	82.5	91.7
208.9	80°	129.8	59.4	34.5	44.6	57.9	84.3	80.4	71.4	71.1	73.2
43.8	82.5°	38.7	25.1	22.2	29.4	32.0	64.7	69.4	54.0	46.4	48.9
14.6	85°	13.3	12.1	12.6	14.6	15.3	37.9	48.6	35.8	33.8	37.3
3.3	87.5°	3.1	4.3	3.6	3.3	3.3	9.2	18.9	14.9	20.7	13.8
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>
373.0
294.9
268.0
271.6
280.8
288.6
293.1
292.4
285.2
273.1
259.9
248.0
237.9
233.5
227.3
216.1
195.6
184.3
181.7
174.3
165.7
156.1
149.2
140.6
139.5
135.2
128.7
120.9
112.1
100.3
89.1
90.4
62.8
50.5
36.8
13.3
0.0

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