

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: P945096

Luminaire Tested: **GALN-SB1A-927-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945096  
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-927-U-T2R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

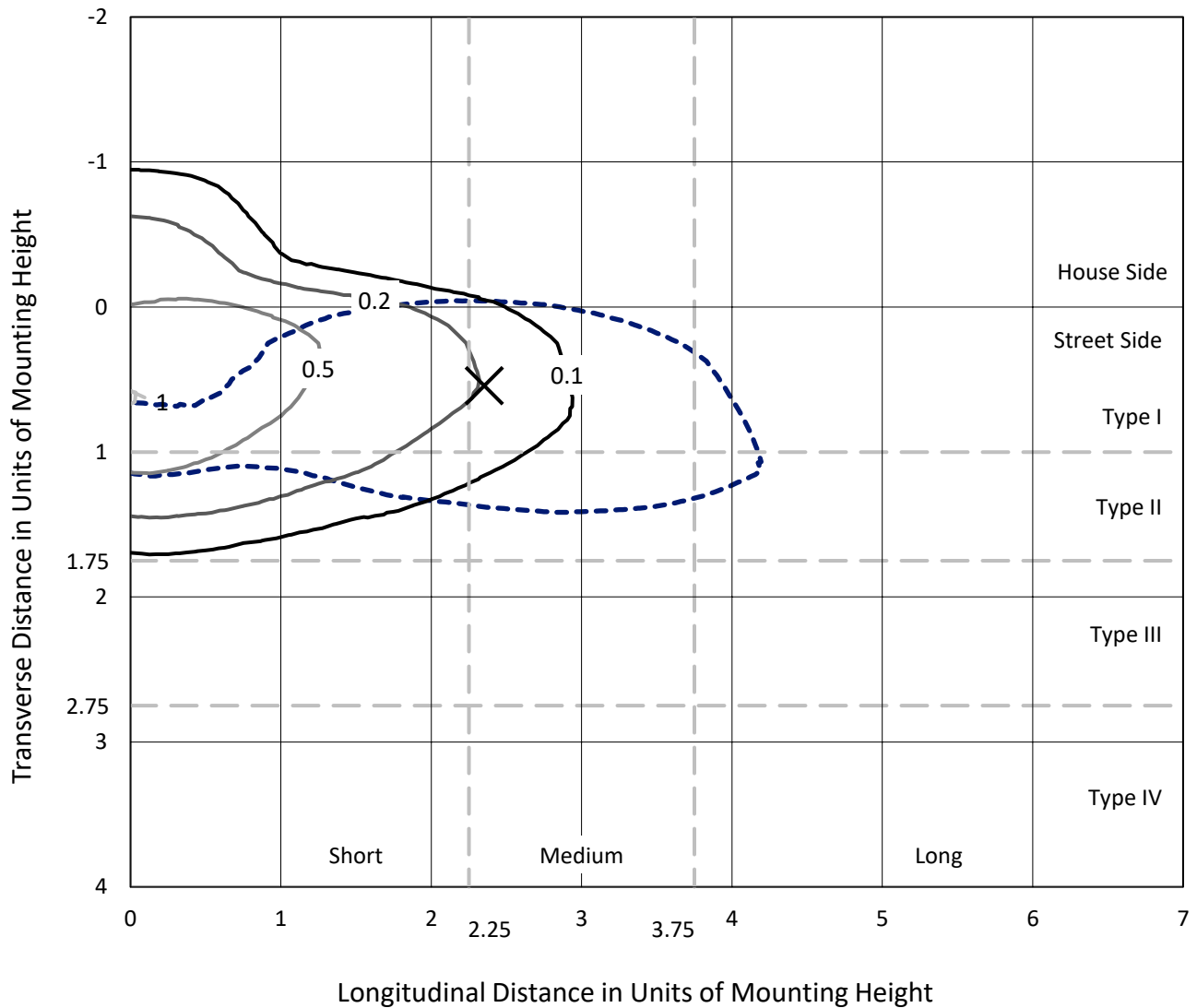
Lumens per Lamp: N/A  
Luminaire Lumens: 2782 lumens  
Efficiency: N/A  
Efficacy: 90.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

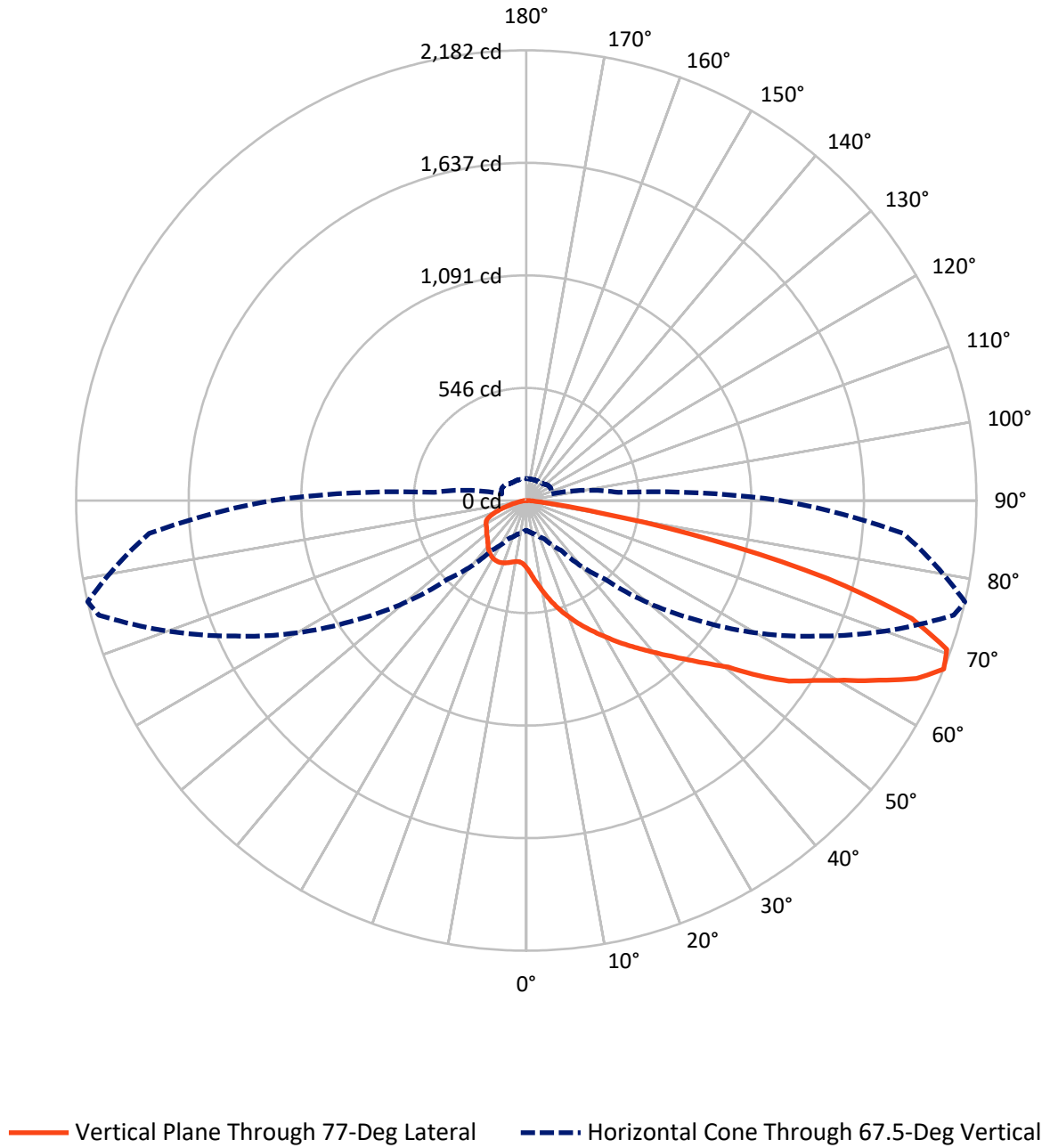
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 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	526.3	0.0	526.3
	% Fixture	18.9	0.0	18.9
<b>Street Side</b>	Lumens	2255.8	0.0	2255.8
	% Fixture	81.1	0.0	81.1
<b>Total</b>	Lumens	2782.0	0.0	2782.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.0	1.3
10°-20°	125.7	4.5
20°-30°	237.3	8.5
30°-40°	382.3	13.7
40°-50°	523.0	18.8
50°-60°	589.9	21.2
60°-70°	550.6	19.8
70°-80°	301.8	10.8
80°-90°	36.4	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°	2782.0	100.0
0°-180°	2782.0	100.0

**Coefficient of Utilization**



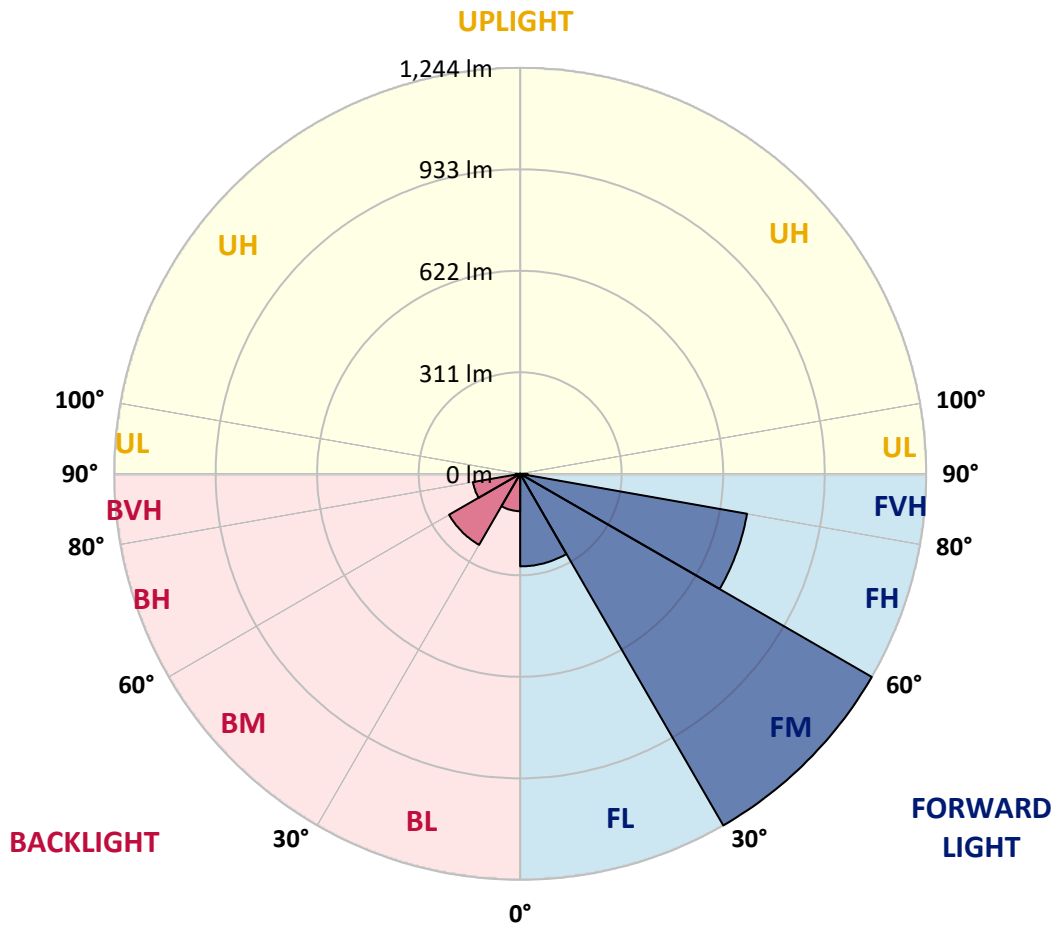
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	283.6	10.2			
FM (30°-60°)	1243.8	44.7			
FH (60°-80°)	705.6	25.4			G1/1800
FVH (80°-90°)	22.8	0.8			G1/100
BL (0°-30°)	114.4	4.1	B1/500		
BM (30°-60°)	251.4	9.0	B1/1000		
BH (60°-80°)	146.8	5.3	B1/500		G1/500
BVH (80°-90°)	13.6	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°	326.4	326.4	326.4	326.4	326.4	326.4	326.4	326.4	326.4	326.4
2.5°	408.7	411.6	408.0	408.0	395.9	389.6	377.5	368.3	351.8	349.0
5°	483.1	486.7	481.7	479.5	465.3	452.2	432.0	412.0	382.6	379.5
7.5°	540.7	545.3	540.8	538.5	525.9	511.2	487.5	459.7	418.2	412.3
10°	587.6	588.4	586.9	587.8	577.9	565.8	541.5	509.1	457.2	449.2
12.5°	614.2	617.5	620.4	625.5	623.8	616.4	594.5	555.8	498.6	488.3
15°	626.7	632.4	638.9	650.8	660.4	662.3	645.6	605.9	540.7	528.2
17.5°	631.1	636.6	646.8	664.0	684.7	698.6	691.2	654.6	582.3	568.0
20°	653.7	655.3	661.4	677.8	700.2	723.3	728.9	701.4	623.5	607.3
22.5°	701.9	698.8	700.5	708.0	724.1	746.5	759.2	742.7	665.9	647.2
25°	781.6	772.5	763.3	754.6	762.8	775.5	790.0	784.1	710.3	686.6
27.5°	882.3	871.1	850.9	822.6	812.7	817.1	823.6	822.4	751.3	727.4
30°	981.4	968.3	944.2	903.3	877.1	865.4	860.5	857.2	796.0	770.4
32.5°	1060.5	1050.2	1026.5	980.7	942.8	922.7	906.4	894.7	842.7	817.1
35°	1129.7	1120.1	1093.0	1043.0	1001.8	980.4	959.1	934.0	891.2	865.4
37.5°	1192.9	1183.3	1146.1	1094.1	1052.6	1037.8	1018.9	976.2	939.9	915.5
40°	1232.9	1230.7	1195.9	1137.1	1094.0	1086.7	1080.3	1025.2	993.9	971.2
42.5°	1243.0	1247.8	1220.2	1171.8	1130.7	1124.9	1139.7	1080.6	1054.5	1032.8
45°	1218.5	1232.1	1214.0	1181.2	1156.9	1153.7	1192.2	1141.2	1121.6	1101.7
47.5°	1156.3	1179.4	1172.0	1167.4	1163.9	1177.6	1238.5	1205.6	1197.5	1180.3
50°	1030.8	1074.6	1087.7	1116.7	1150.0	1196.1	1280.5	1275.8	1286.3	1268.9
52.5°	813.8	874.1	949.9	1022.6	1107.2	1189.9	1326.8	1376.6	1420.8	1411.4
55°	671.8	698.9	757.2	890.5	1024.2	1163.9	1347.6	1458.0	1554.4	1545.9
57.5°	562.6	586.9	622.8	734.1	898.7	1104.9	1360.5	1507.7	1645.9	1645.0
60°	445.6	471.3	508.1	586.9	752.1	1002.9	1357.6	1564.3	1762.6	1769.8
62.5°	313.5	341.8	382.6	456.1	602.3	870.8	1299.1	1605.2	1900.0	1919.6
65°	206.1	224.7	255.5	318.9	448.8	700.9	1187.2	1610.5	2047.1	2080.1
67.5°	144.5	151.6	169.7	204.2	295.8	537.5	1009.0	1555.5	2145.2	2182.4
70°	112.7	116.3	125.5	139.3	185.8	361.5	773.2	1412.5	2124.2	2163.0
72.5°	97.4	100.8	104.3	106.0	124.6	223.2	523.7	1181.0	1926.8	1953.0
75°	88.3	89.2	92.1	91.5	95.1	144.8	302.3	860.5	1520.2	1511.2
77.5°	74.2	75.4	80.1	79.4	84.4	98.9	157.0	555.3	985.6	924.1
80°	62.9	63.5	68.6	67.8	73.4	71.7	80.1	283.0	418.0	354.1
82.5°	21.8	27.0	52.4	54.0	56.0	43.4	46.2	115.5	127.7	97.8
85°	10.6	11.3	26.7	37.9	37.8	21.8	22.5	41.2	40.2	31.6
87.5°	1.7	2.2	3.2	14.8	11.8	5.7	7.8	8.0	8.3	7.2
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°
326.4	0°	326.4	326.4	326.4	326.4	326.4	326.4	326.4	326.4	326.4	326.4
338.0	2.5°	330.0	322.8	307.7	293.8	282.9	272.4	266.5	261.5	258.6	258.1
353.8	5°	338.9	324.1	296.7	273.6	258.5	247.3	241.4	237.7	235.8	234.7
375.1	7.5°	351.7	330.0	290.9	264.7	248.9	240.8	237.8	237.2	237.1	237.2
400.8	10°	369.4	339.6	290.4	262.5	249.3	244.8	244.7	244.8	245.4	245.6
428.8	12.5°	388.5	349.5	292.7	264.4	254.8	252.3	251.9	251.7	252.2	252.5
457.1	15°	409.3	362.6	296.5	268.4	260.8	258.2	257.8	256.9	256.8	256.6
486.8	17.5°	430.7	375.5	300.9	272.7	264.7	261.1	259.5	257.5	255.9	255.5
517.6	20°	452.4	388.3	303.9	274.9	265.0	259.9	256.8	253.3	250.6	249.0
548.6	22.5°	475.5	401.7	305.7	274.3	262.4	255.5	249.7	245.7	241.5	238.8
579.9	25°	498.0	413.3	305.6	271.3	257.3	248.6	241.3	236.1	230.3	227.5
612.2	27.5°	519.7	423.8	302.0	266.0	250.2	240.4	231.6	225.5	219.9	217.1
644.8	30°	542.1	432.5	296.4	258.2	241.7	230.9	221.3	216.0	211.0	208.4
679.3	32.5°	564.4	440.6	288.5	248.6	231.9	221.6	212.1	207.2	204.2	204.2
716.3	35°	587.9	446.2	278.0	237.4	221.6	211.7	204.2	201.3	201.0	199.3
755.5	37.5°	612.8	449.8	265.2	225.9	211.4	202.1	199.8	196.3	193.4	189.7
798.6	40°	638.9	453.4	249.9	214.0	200.6	195.4	194.4	189.8	181.7	172.5
847.4	42.5°	670.6	455.8	233.9	202.1	189.3	187.5	189.0	181.1	168.0	161.1
906.3	45°	707.4	459.8	219.3	190.3	177.6	177.6	183.7	173.3	162.6	158.3
973.5	47.5°	755.1	469.2	205.6	177.4	166.9	169.7	171.9	164.0	158.0	152.7
1055.4	50°	824.0	491.6	191.6	164.3	158.7	164.4	161.4	156.8	149.8	145.5
1185.5	52.5°	909.6	504.8	179.1	152.5	151.6	157.4	153.1	148.8	143.5	137.7
1284.1	55°	967.9	507.2	168.6	143.9	146.9	146.3	144.8	140.9	138.0	130.4
1381.5	57.5°	1033.1	512.1	160.0	138.7	143.9	137.6	137.0	133.7	130.0	124.8
1500.2	60°	1111.1	519.7	152.5	136.7	141.3	131.8	129.0	127.7	123.9	121.3
1643.1	62.5°	1196.1	526.6	144.9	137.0	138.3	126.2	121.9	121.5	119.2	118.3
1777.3	65°	1254.1	507.8	135.4	136.7	133.6	120.5	115.0	114.9	113.0	112.7
1835.4	67.5°	1233.9	448.2	122.6	132.7	128.7	114.7	108.7	108.1	105.7	105.8
1774.7	70°	1132.5	363.2	105.0	122.8	122.6	109.6	102.1	100.2	96.9	97.5
1543.0	72.5°	942.3	269.1	81.3	106.3	113.0	104.8	94.5	91.5	87.3	87.9
1139.1	75°	680.5	183.0	59.2	80.8	98.4	99.2	87.0	81.9	76.8	77.7
634.0	77.5°	348.2	103.7	43.5	55.7	77.3	90.2	80.3	73.4	72.2	80.3
182.8	80°	113.6	52.0	30.2	39.1	50.7	73.8	70.4	62.5	62.2	64.0
38.3	82.5°	33.9	22.0	19.4	25.7	28.0	56.6	60.7	47.2	40.6	42.8
12.8	85°	11.6	10.6	11.1	12.8	13.4	33.2	42.5	31.3	29.6	32.6
2.9	87.5°	2.7	3.7	3.2	2.9	2.9	8.0	16.5	13.1	18.1	12.1
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>
326.4
258.1
234.5
237.7
245.7
252.6
256.5
255.9
249.6
239.0
227.5
217.0
208.2
204.4
198.9
189.1
171.2
161.3
159.0
152.5
145.0
136.6
130.5
123.1
122.1
118.3
112.6
105.8
98.1
87.7
78.0
79.1
55.0
44.2
32.2
11.6
0.0

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