

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: P944991

Luminaire Tested: **GALN-SB1A-827-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944991
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-827-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3974 lumens
Efficiency: N/A
Efficacy: 128.6 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

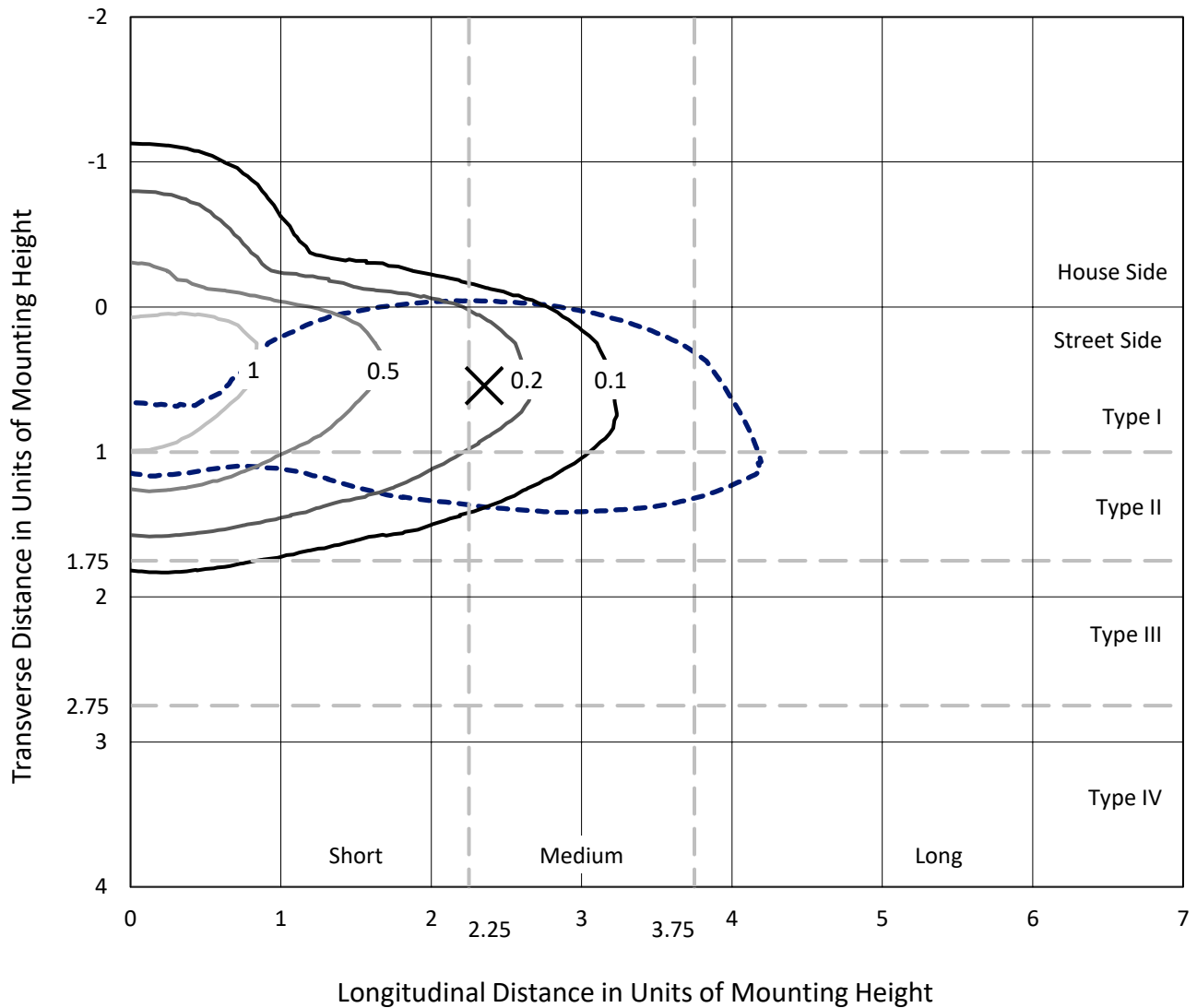
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

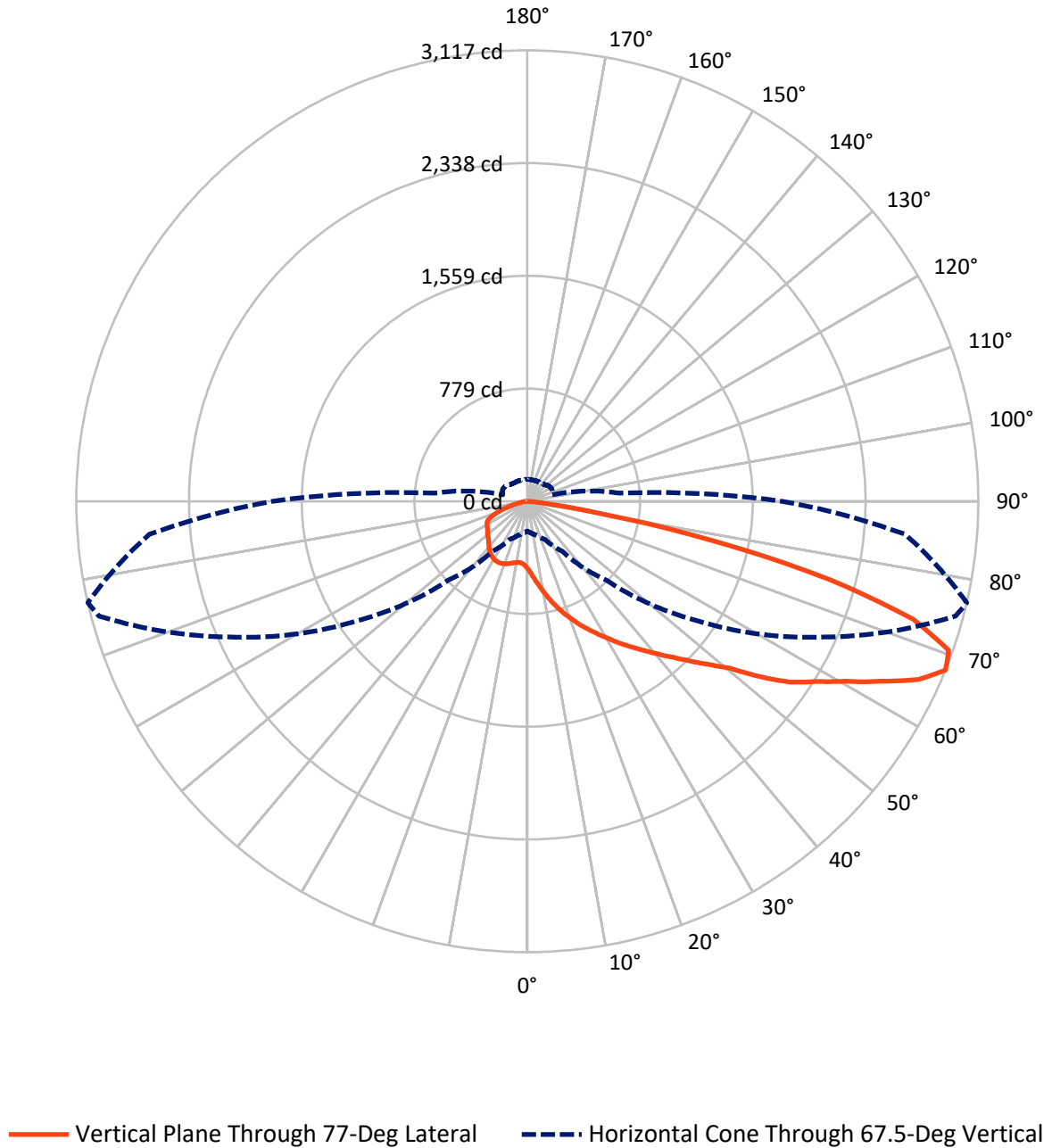
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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	751.7	0.0	751.7
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	3222.3	0.0	3222.3
	% Fixture	81.1	0.0	81.1
Total	Lumens	3974.0	0.0	3974.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.0	1.3
10°-20°	179.6	4.5
20°-30°	339.0	8.5
30°-40°	546.1	13.7
40°-50°	747.0	18.8
50°-60°	842.6	21.2
60°-70°	786.5	19.8
70°-80°	431.1	10.8
80°-90°	52.0	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°	3974.0	100.0
0°-180°	3974.0	100.0

Coefficient of Utilization



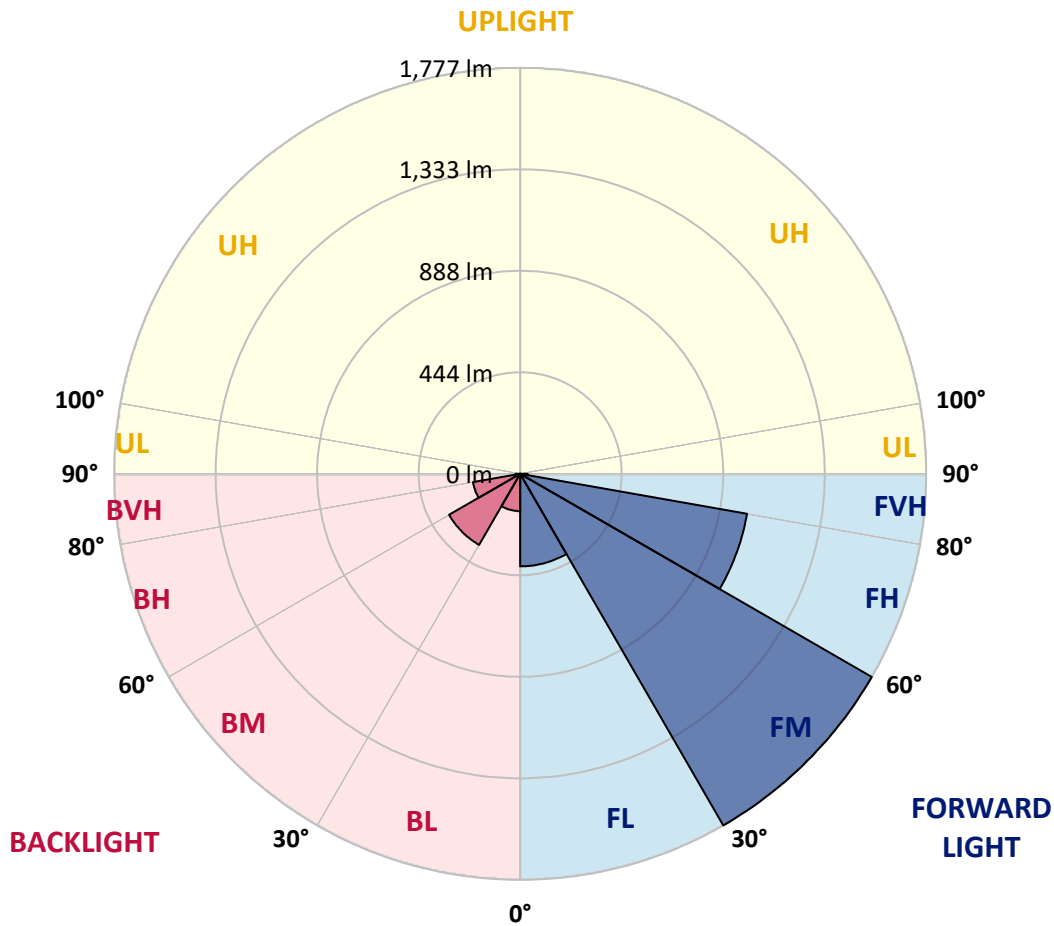
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	405.1	10.2			
FM (30°-60°)	1776.7	44.7			
FH (60°-80°)	1007.9	25.4			G1/1800
FVH (80°-90°)	32.5	0.8			G1/100
BL (0°-30°)	163.4	4.1	B1/500		
BM (30°-60°)	359.1	9.0	B1/1000		
BH (60°-80°)	209.7	5.3	B1/500		G1/500
BVH (80°-90°)	19.5	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°	466.3	466.3	466.3	466.3	466.3	466.3	466.3	466.3	466.3	466.3
2.5°	583.8	587.9	582.8	582.8	565.6	556.5	539.3	526.2	502.6	498.5
5°	690.1	695.2	688.0	684.9	664.6	646.0	617.0	588.5	546.5	542.2
7.5°	772.3	778.9	772.5	769.3	751.2	730.3	696.4	656.6	597.4	588.9
10°	839.4	840.4	838.4	839.6	825.5	808.2	773.6	727.2	653.2	641.7
12.5°	877.4	882.1	886.2	893.6	891.1	880.4	849.3	793.9	712.2	697.5
15°	895.2	903.4	912.6	929.7	943.4	946.1	922.3	865.5	772.3	754.5
17.5°	901.6	909.4	923.9	948.5	978.1	998.0	987.3	935.0	831.8	811.3
20°	933.8	936.0	944.9	968.2	1000.2	1033.3	1041.3	1001.9	890.7	867.5
22.5°	1002.7	998.2	1000.7	1011.3	1034.3	1066.3	1084.6	1061.0	951.2	924.5
25°	1116.6	1103.4	1090.3	1078.0	1089.7	1107.7	1128.5	1120.0	1014.6	980.8
27.5°	1260.4	1244.4	1215.4	1175.0	1160.9	1167.2	1176.5	1174.8	1073.3	1039.0
30°	1401.9	1383.2	1348.8	1290.3	1253.0	1236.1	1229.2	1224.5	1137.1	1100.6
32.5°	1514.9	1500.2	1466.3	1400.9	1346.7	1318.0	1294.8	1278.0	1203.7	1167.2
35°	1613.8	1600.1	1561.3	1489.9	1431.0	1400.5	1370.1	1334.2	1273.1	1236.1
37.5°	1704.1	1690.3	1637.2	1562.9	1503.6	1482.5	1455.4	1394.5	1342.6	1307.7
40°	1761.1	1758.0	1708.4	1624.3	1562.7	1552.3	1543.2	1464.5	1419.7	1387.3
42.5°	1775.7	1782.4	1743.0	1673.9	1615.2	1606.8	1628.0	1543.6	1506.3	1475.3
45°	1740.6	1760.1	1734.2	1687.2	1652.6	1648.1	1703.0	1630.2	1602.1	1573.8
47.5°	1651.8	1684.8	1674.1	1667.5	1662.6	1682.1	1769.1	1722.1	1710.6	1686.0
50°	1472.5	1535.0	1553.7	1595.1	1642.7	1708.6	1829.2	1822.4	1837.4	1812.6
52.5°	1162.5	1248.7	1357.0	1460.8	1581.6	1699.8	1895.2	1966.4	2029.6	2016.1
55°	959.6	998.4	1081.7	1272.0	1463.0	1662.6	1925.0	2082.7	2220.4	2208.3
57.5°	803.7	838.4	889.7	1048.7	1283.7	1578.3	1943.5	2153.7	2351.1	2349.8
60°	636.5	673.3	725.8	838.4	1074.3	1432.7	1939.4	2234.5	2517.8	2528.1
62.5°	447.8	488.2	546.5	651.5	860.3	1243.9	1855.7	2293.0	2714.2	2742.1
65°	294.4	321.0	364.9	455.6	641.0	1001.3	1695.9	2300.6	2924.2	2971.4
67.5°	206.4	216.6	242.5	291.7	422.6	767.8	1441.3	2222.0	3064.3	3117.4
70°	161.0	166.2	179.3	199.0	265.4	516.3	1104.5	2017.7	3034.4	3089.8
72.5°	139.1	144.0	148.9	151.4	178.1	318.8	748.1	1687.0	2752.3	2789.8
75°	126.2	127.4	131.5	130.7	135.8	206.8	431.8	1229.2	2171.6	2158.6
77.5°	106.1	107.7	114.5	113.4	120.6	141.3	224.2	793.3	1407.8	1320.0
80°	89.8	90.7	98.1	96.8	104.8	102.4	114.5	404.3	597.2	505.9
82.5°	31.2	38.6	74.9	77.1	80.0	62.0	66.1	164.9	182.4	139.7
85°	15.2	16.2	38.2	54.2	54.0	31.2	32.2	58.9	57.4	45.1
87.5°	2.5	3.1	4.5	21.1	16.8	8.2	11.1	11.5	11.9	10.3
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°
466.3	0°	466.3	466.3	466.3	466.3	466.3	466.3	466.3	466.3	466.3	466.3
482.9	2.5°	471.4	461.1	439.6	419.7	404.1	389.1	380.7	373.6	369.4	368.6
505.5	5°	484.1	463.0	423.8	390.8	369.2	353.2	344.8	339.5	336.8	335.2
535.8	7.5°	502.4	471.4	415.6	378.1	355.5	344.0	339.7	338.9	338.7	338.9
572.5	10°	527.6	485.1	414.8	375.0	356.1	349.8	349.6	349.8	350.6	350.8
612.5	12.5°	554.9	499.3	418.1	377.7	363.9	360.4	359.8	359.6	360.2	360.6
652.9	15°	584.6	518.0	423.6	383.4	372.5	368.8	368.2	367.0	366.8	366.6
695.4	17.5°	615.2	536.4	429.8	389.6	378.1	372.9	370.7	367.8	365.6	364.9
739.3	20°	646.2	554.7	434.1	392.6	378.5	371.3	366.8	361.9	358.0	355.7
783.6	22.5°	679.2	573.8	436.7	391.8	374.8	364.9	356.7	351.0	345.0	341.1
828.3	25°	711.4	590.4	436.5	387.5	367.6	355.1	344.6	337.2	329.0	324.9
874.5	27.5°	742.4	605.4	431.4	379.9	357.3	343.4	330.9	322.1	314.1	310.2
921.1	30°	774.4	617.9	423.4	368.8	345.2	329.9	316.1	308.5	301.3	297.7
970.3	32.5°	806.2	629.4	412.1	355.1	331.3	316.5	303.0	296.0	291.7	291.7
1023.2	35°	839.8	637.4	397.1	339.1	316.5	302.4	291.7	287.6	287.2	284.7
1079.2	37.5°	875.3	642.5	378.9	322.7	302.0	288.6	285.3	280.4	276.3	271.0
1140.8	40°	912.6	647.6	356.9	305.7	286.6	279.2	277.8	271.2	259.5	246.4
1210.5	42.5°	958.0	651.1	334.2	288.6	270.4	267.9	270.0	258.7	240.0	230.2
1294.6	45°	1010.5	656.8	313.2	271.8	253.8	253.8	262.4	247.6	232.2	226.1
1390.6	47.5°	1078.6	670.2	293.8	253.3	238.4	242.5	245.5	234.3	225.6	218.1
1507.5	50°	1177.1	702.2	273.7	234.7	226.7	234.9	230.6	224.0	214.0	207.8
1693.4	52.5°	1299.3	721.1	255.8	217.9	216.6	224.8	218.7	212.5	204.9	196.7
1834.3	55°	1382.6	724.5	240.8	205.5	209.9	209.0	206.8	201.2	197.1	186.3
1973.4	57.5°	1475.7	731.5	228.5	198.2	205.5	196.5	195.7	191.0	185.6	178.3
2143.1	60°	1587.1	742.4	217.9	195.3	201.9	188.3	184.2	182.4	177.0	173.3
2347.2	62.5°	1708.6	752.2	207.0	195.7	197.5	180.3	174.2	173.5	170.3	169.0
2538.8	65°	1791.5	725.4	193.4	195.3	190.8	172.1	164.3	164.1	161.4	161.0
2621.8	67.5°	1762.5	640.2	175.2	189.5	183.8	163.9	155.3	154.5	151.0	151.2
2535.1	70°	1617.7	518.8	150.0	175.4	175.2	156.5	145.9	143.2	138.5	139.3
2204.2	72.5°	1346.1	384.4	116.1	151.8	161.4	149.7	135.0	130.7	124.7	125.5
1627.1	75°	972.1	261.3	84.5	115.5	140.5	141.7	124.3	116.9	109.7	111.0
905.7	77.5°	497.5	148.1	62.2	79.6	110.4	128.8	114.7	104.8	103.2	114.7
261.1	80°	162.3	74.3	43.1	55.8	72.4	105.4	100.5	89.2	88.8	91.5
54.8	82.5°	48.4	31.4	27.7	36.7	40.0	80.8	86.8	67.5	58.1	61.1
18.3	85°	16.6	15.2	15.8	18.3	19.1	47.4	60.7	44.7	42.3	46.6
4.1	87.5°	3.9	5.3	4.5	4.1	4.1	11.5	23.6	18.7	25.8	17.2
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°
466.3
368.6
335.0
339.5
351.0
360.8
366.4
365.6
356.5
341.3
324.9
310.0
297.4
291.9
284.1
270.2
244.5
230.4
227.1
217.9
207.2
195.1
186.5
175.8
174.4
169.0
160.8
151.2
140.1
125.3
111.4
113.0
78.6
63.2
46.0
16.6
0.0

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