

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: P945165

Luminaire Tested: **GALN-SB1A-940-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945165
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-940-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3245 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

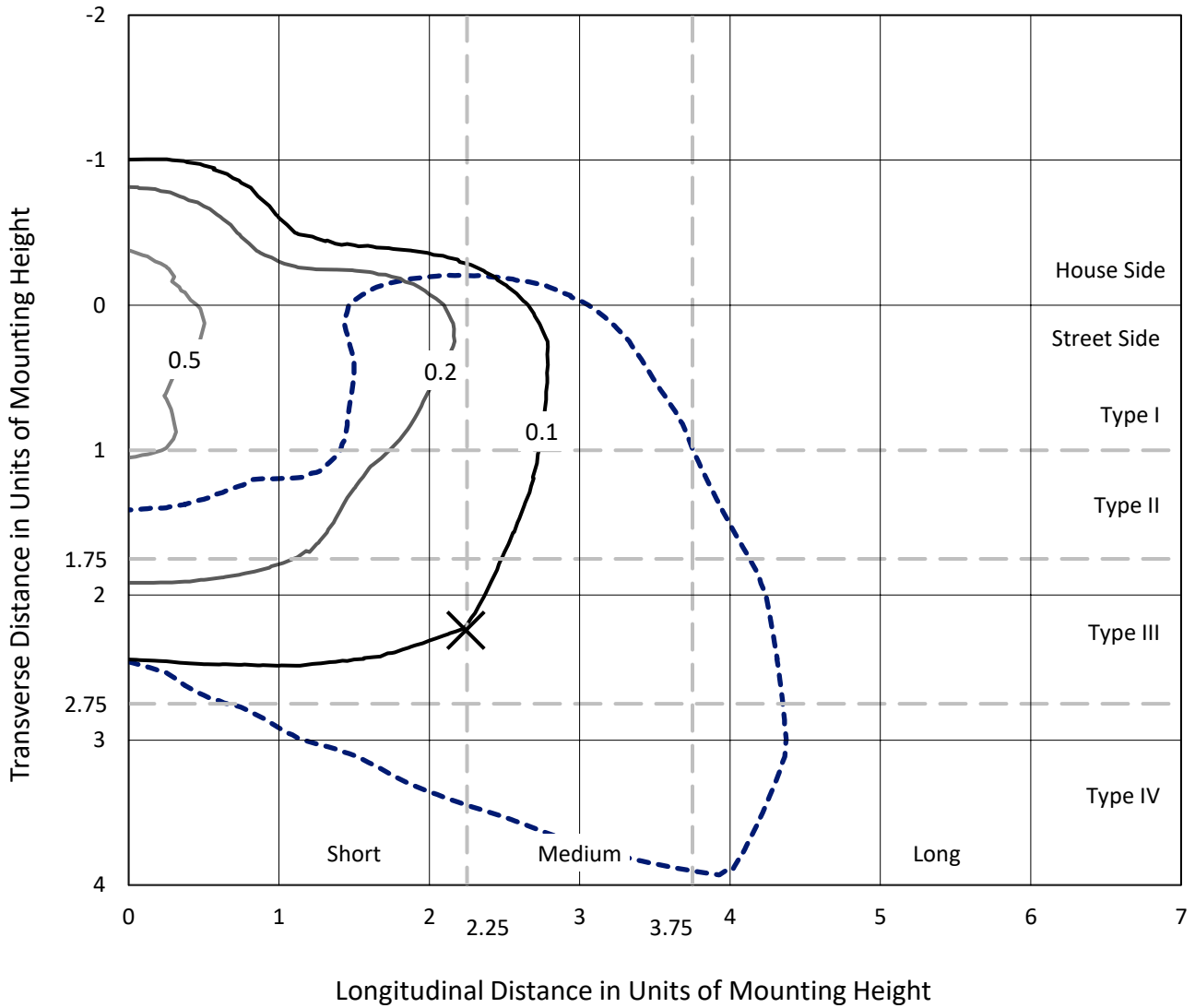
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P945165
 CATALOG NUMBER: GALN-SB1A-940-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

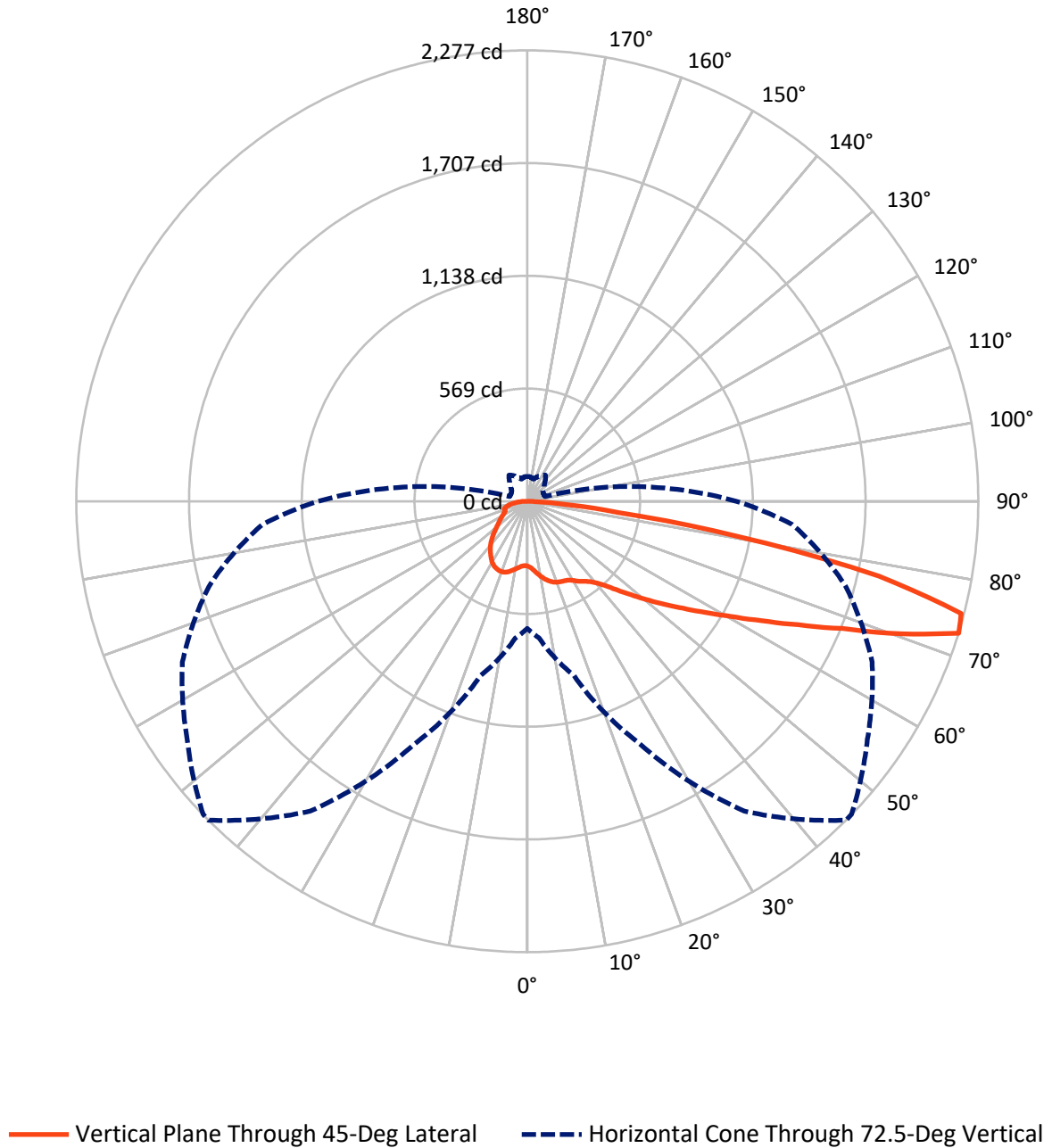
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	733.6	0.0	733.6
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	2511.4	0.0	2511.4
	% Fixture	77.4	0.0	77.4
Total	Lumens	3245.0	0.0	3245.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.3	1.0
10°-20°	111.1	3.4
20°-30°	193.2	6.0
30°-40°	277.0	8.5
40°-50°	390.1	12.0
50°-60°	597.5	18.4
60°-70°	865.5	26.7
70°-80°	691.2	21.3
80°-90°	86.1	2.7
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°	3245.0	100.0
0°-180°	3245.0	100.0

Coefficient of Utilization



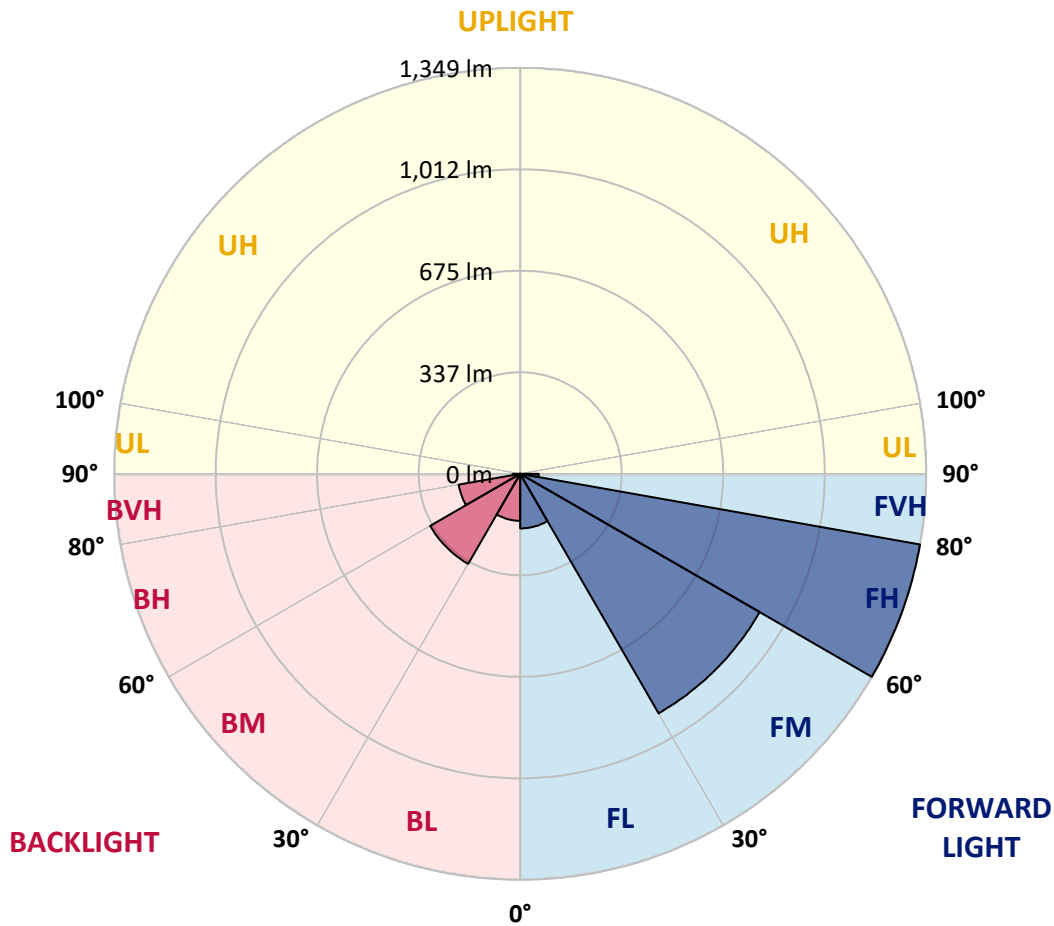
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	181.5	5.6			
FM (30°-60°)	919.1	28.3			
FH (60°-80°)	1349.0	41.6			G1/1800
FVH (80°-90°)	61.8	1.9			G1/100
BL (0°-30°)	156.2	4.8	B1/500		
BM (30°-60°)	345.4	10.6	B1/1000		
BH (60°-80°)	207.7	6.4	B1/500		G1/500
BVH (80°-90°)	24.3	0.7			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 IV Short



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 CATALOG NUMBER: GALN-SB1A-940-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	327.4	327.4	327.4	327.4	327.4	327.4	327.4	327.4	327.4	327.4
2.5°	340.2	342.4	340.3	338.5	337.6	335.4	335.2	333.9	333.0	330.6
5°	363.9	366.8	363.4	359.7	356.2	350.8	350.1	346.2	341.7	336.6
7.5°	390.8	393.3	389.4	383.8	377.8	368.7	368.6	361.4	354.4	345.6
10°	414.2	417.6	412.3	404.6	397.1	386.8	385.6	377.4	368.6	357.3
12.5°	434.9	437.3	432.1	422.7	414.0	403.8	402.2	393.2	383.3	370.4
15°	451.3	454.4	447.5	437.4	428.2	418.1	416.8	408.6	398.6	385.1
17.5°	462.1	464.6	457.6	446.3	437.4	429.1	428.0	421.2	412.5	398.8
20°	466.2	468.9	461.5	450.1	441.9	435.4	434.9	429.9	423.9	411.5
22.5°	470.3	472.8	463.3	451.3	444.1	440.0	439.8	436.6	434.2	423.9
25°	486.8	487.5	474.7	457.4	447.2	443.6	443.4	443.3	444.3	436.2
27.5°	501.2	501.0	490.1	473.9	458.0	450.4	450.3	452.0	455.2	448.6
30°	522.2	520.4	507.4	490.4	475.9	464.3	463.3	461.7	464.3	459.0
32.5°	566.8	560.9	539.8	509.8	490.8	481.9	480.5	471.0	472.0	468.7
35°	630.8	622.9	594.9	546.3	509.2	496.6	495.9	483.8	481.7	478.8
37.5°	706.9	697.1	664.5	599.3	541.0	513.7	512.7	501.7	493.3	490.3
40°	783.3	771.0	743.9	663.9	587.9	542.2	539.0	522.4	512.8	507.7
42.5°	857.5	847.2	824.1	736.4	645.7	583.9	576.8	548.4	541.2	536.4
45°	923.1	913.9	896.9	813.9	713.3	640.7	633.7	587.4	585.1	585.1
47.5°	976.4	974.4	956.4	892.8	793.2	705.3	693.2	641.6	647.5	656.8
50°	1035.6	1029.9	1010.8	970.6	887.0	779.3	769.4	708.0	730.4	755.7
52.5°	1089.9	1093.0	1071.6	1051.6	993.0	861.9	844.5	786.5	834.9	876.8
55°	1145.8	1146.0	1140.0	1137.3	1104.1	953.2	934.0	880.9	957.8	1009.8
57.5°	1198.3	1198.7	1207.5	1231.6	1233.0	1058.5	1036.8	996.8	1094.4	1147.4
60°	1245.2	1247.5	1271.8	1328.2	1346.4	1179.2	1158.7	1133.7	1235.6	1288.9
62.5°	1260.9	1269.6	1323.6	1403.8	1458.3	1327.2	1307.0	1292.2	1384.0	1433.5
65°	1234.2	1254.2	1358.7	1466.2	1573.5	1503.1	1483.1	1466.9	1538.2	1584.8
67.5°	1168.7	1194.6	1356.6	1531.7	1713.4	1714.7	1696.1	1658.0	1703.5	1721.4
70°	996.3	1034.9	1237.1	1556.1	1873.9	2004.1	1986.2	1888.1	1868.4	1781.6
72.5°	641.9	693.9	911.0	1354.9	1909.6	2276.5	2275.4	2095.8	1920.6	1664.7
75°	234.2	266.0	423.3	850.4	1602.9	2262.6	2269.3	2060.2	1753.2	1285.8
77.5°	85.3	93.3	138.1	326.8	985.8	1815.4	1829.3	1647.0	1247.9	645.3
80°	44.8	49.2	70.8	126.8	422.4	1078.1	1099.9	978.8	586.5	194.4
82.5°	24.8	26.8	39.7	68.9	190.3	461.0	474.0	386.7	206.3	82.4
85°	13.3	14.2	18.6	37.6	93.0	159.8	163.4	115.6	82.2	48.4
87.5°	3.9	4.8	6.2	12.0	36.4	35.9	36.8	22.9	32.5	24.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P945165
 CATALOG NUMBER: GALN-SB1A-940-U-T4W

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
327.4	0°	327.4	327.4	327.4	327.4	327.4	327.4	327.4	327.4	327.4	327.4
329.9	2.5°	328.9	328.4	326.5	325.6	324.6	324.5	325.3	325.5	325.6	325.8
333.7	5°	332.0	330.3	328.6	327.5	327.9	328.0	329.8	330.9	331.8	332.5
340.7	7.5°	338.0	336.6	333.7	333.5	334.0	335.6	337.8	340.5	342.1	343.3
349.8	10°	346.8	344.3	340.9	341.4	342.4	344.6	349.2	351.5	354.0	356.2
360.9	12.5°	355.9	353.7	349.8	350.1	351.8	355.7	360.2	362.9	364.6	366.3
372.8	15°	367.7	363.8	359.5	359.5	362.6	366.8	368.9	371.1	372.1	374.0
385.6	17.5°	379.8	374.7	369.1	368.7	372.5	374.5	375.7	376.1	376.4	378.5
398.1	20°	392.0	386.3	378.3	377.6	378.5	378.1	378.0	377.6	378.1	380.7
410.9	22.5°	403.9	397.4	386.3	383.3	380.9	377.6	377.4	377.3	377.6	380.2
424.8	25°	418.0	410.1	395.2	386.0	378.0	373.5	374.0	374.2	374.5	376.6
439.2	27.5°	433.2	424.5	403.4	385.1	370.6	367.5	366.7	367.2	368.4	371.6
453.5	30°	448.4	438.1	410.9	381.7	361.4	357.1	354.4	355.6	359.3	362.6
466.0	32.5°	462.2	452.0	416.9	374.2	349.6	342.9	339.3	340.9	344.6	345.8
479.8	35°	478.5	466.8	419.5	362.2	336.8	326.5	321.7	319.5	321.4	320.2
496.1	37.5°	496.6	484.5	419.2	346.5	321.7	309.9	303.3	294.9	290.9	286.8
520.0	40°	523.4	506.0	415.1	327.5	303.1	292.3	280.3	266.2	257.3	249.2
558.6	42.5°	560.0	535.9	407.5	306.7	282.1	272.0	255.7	239.2	225.1	211.8
617.3	45°	614.5	575.1	398.1	284.5	259.3	249.4	231.8	213.2	197.3	180.2
700.5	47.5°	693.2	627.7	389.2	259.2	235.4	226.3	210.4	193.2	174.4	157.8
820.9	50°	801.2	703.3	381.0	234.5	211.8	205.0	192.3	174.7	155.7	142.4
961.9	52.5°	938.7	806.0	377.6	210.8	189.7	187.2	177.1	160.7	142.7	131.5
1126.3	55°	1096.4	928.9	377.6	188.0	170.4	171.3	164.3	149.1	133.5	123.4
1295.9	57.5°	1257.5	1053.4	370.8	167.0	154.0	157.6	153.2	139.8	125.8	115.4
1474.2	60°	1405.8	1157.6	343.1	147.9	139.5	145.1	142.2	130.8	113.7	105.0
1623.3	62.5°	1519.9	1216.4	289.7	132.7	127.5	134.0	132.5	118.8	111.5	107.9
1745.7	65°	1577.0	1206.9	221.5	119.1	117.4	127.5	124.3	123.8	118.0	113.8
1785.5	67.5°	1541.9	1124.5	160.7	109.2	111.6	121.5	134.0	136.1	125.3	117.3
1673.4	70°	1388.2	975.4	119.7	99.8	104.3	121.7	152.8	142.4	122.9	113.5
1342.1	72.5°	1056.1	727.4	92.8	89.9	94.7	122.6	161.2	139.5	116.1	125.5
836.1	75°	603.9	399.3	74.5	77.8	82.7	114.5	156.9	132.0	110.8	115.2
331.3	77.5°	230.3	153.5	61.5	65.8	66.5	100.0	150.1	131.5	105.5	102.9
99.3	80°	79.8	60.0	50.9	52.3	51.5	88.9	143.9	114.4	86.3	77.3
41.0	82.5°	32.7	29.9	40.3	38.6	36.6	69.1	116.2	93.5	70.6	62.4
19.8	85°	14.2	19.0	26.7	23.4	21.2	47.9	93.2	79.1	59.7	51.5
6.5	87.5°	2.9	7.2	11.3	10.6	10.9	32.0	66.2	56.2	42.2	31.6
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°
327.4
326.5
332.8
343.6
355.7
367.0
374.7
379.2
381.7
381.9
379.3
374.9
366.2
350.1
323.9
289.4
249.7
210.6
178.1
155.9
141.5
130.6
122.4
113.7
103.6
106.7
112.5
115.9
112.0
124.4
115.2
93.8
74.7
61.7
51.3
24.8
0.0

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