

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: P945161

Luminaire Tested: **GALN-SB1A-940-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945161  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
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-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 4000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3295 lumens  
Efficiency: N/A  
Efficacy: 106.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

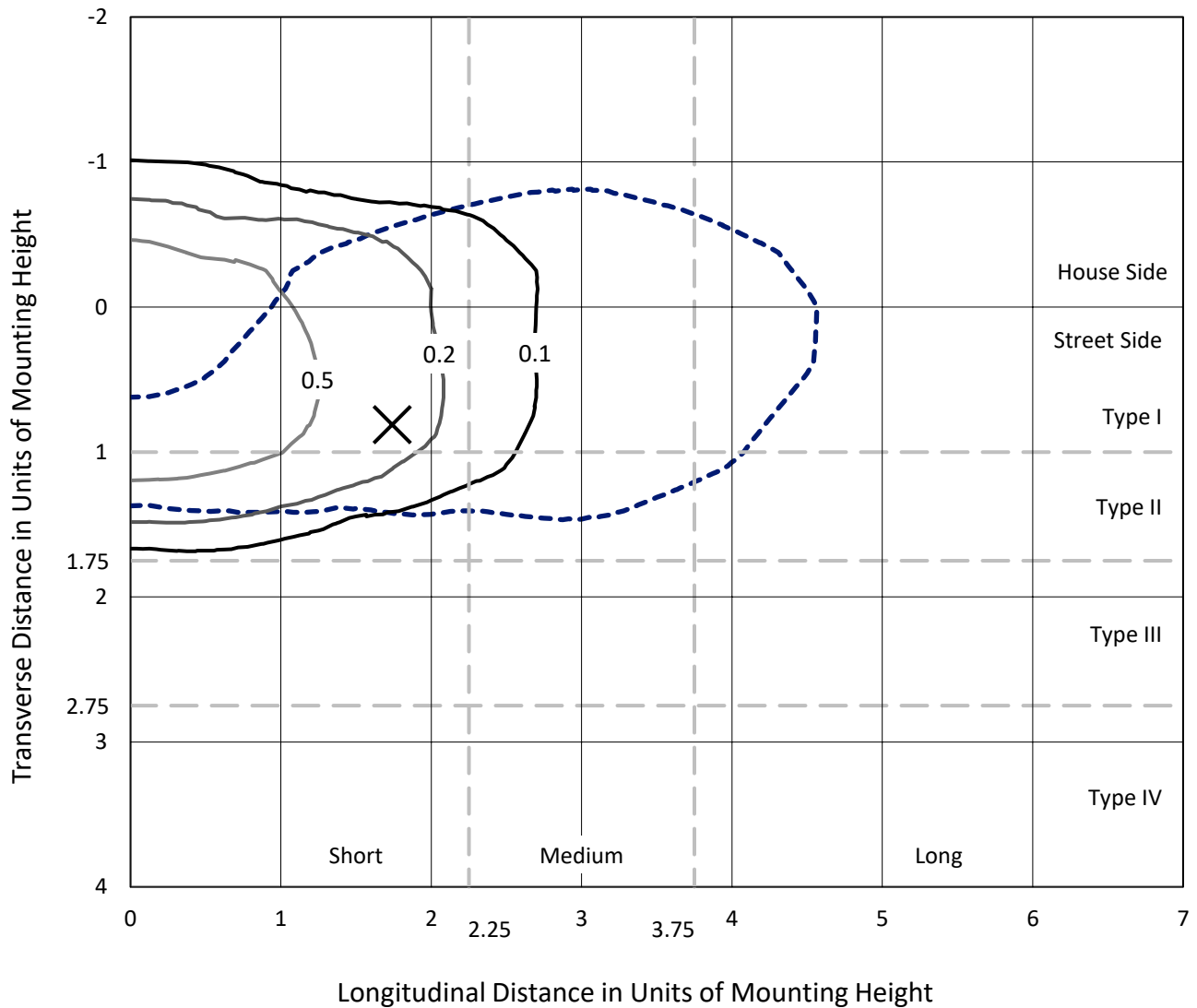
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

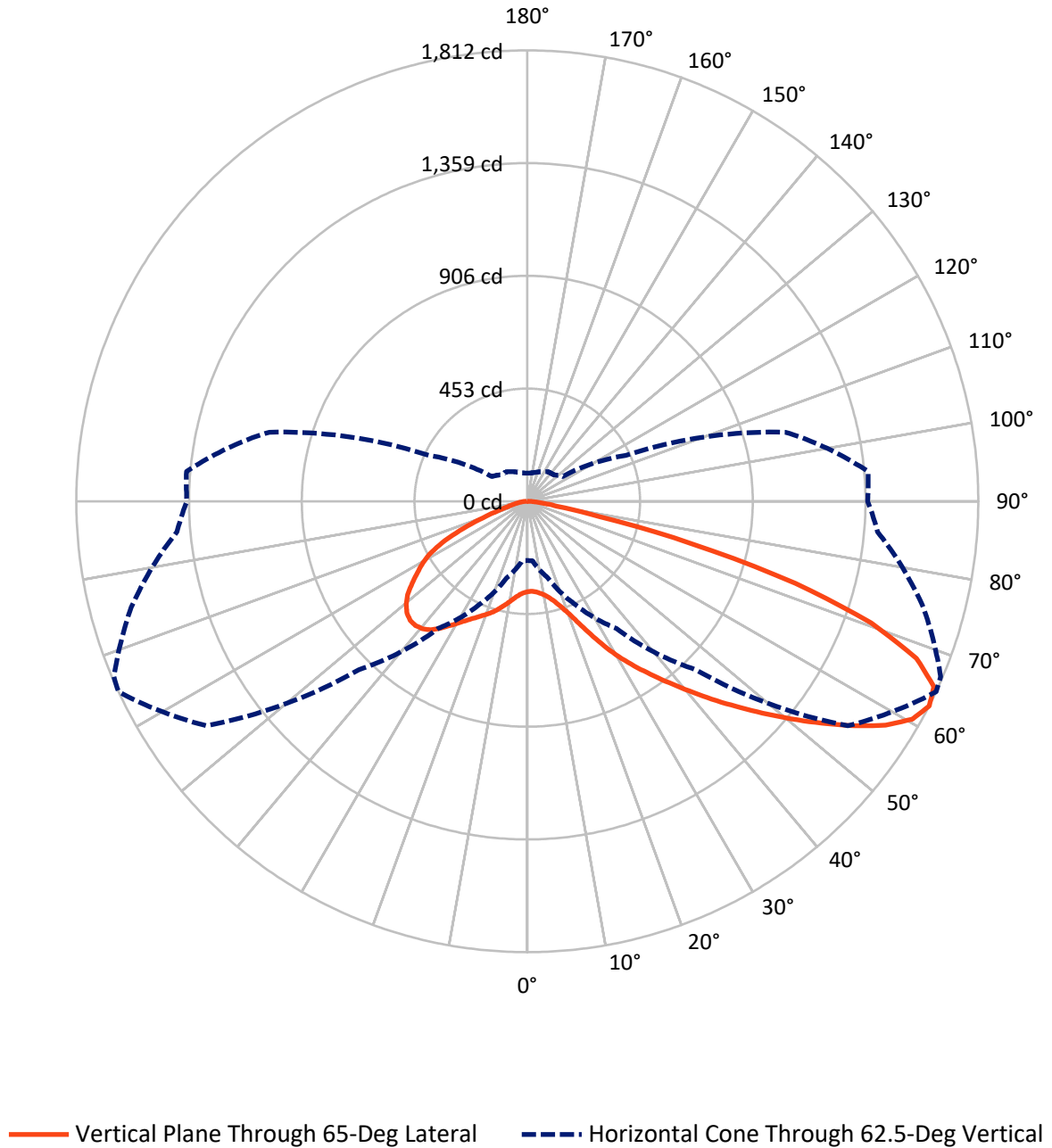
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1039.8	0.0	1039.8
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	2255.2	0.0	2255.2
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	3295.0	0.0	3295.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.2	1.1
10°-20°	122.8	3.7
20°-30°	248.9	7.6
30°-40°	430.7	13.1
40°-50°	651.8	19.8
50°-60°	764.2	23.2
60°-70°	640.7	19.4
70°-80°	353.7	10.7
80°-90°	45.9	1.4
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°	3295.0	100.0
0°-180°	3295.0	100.0

**Coefficient of Utilization**

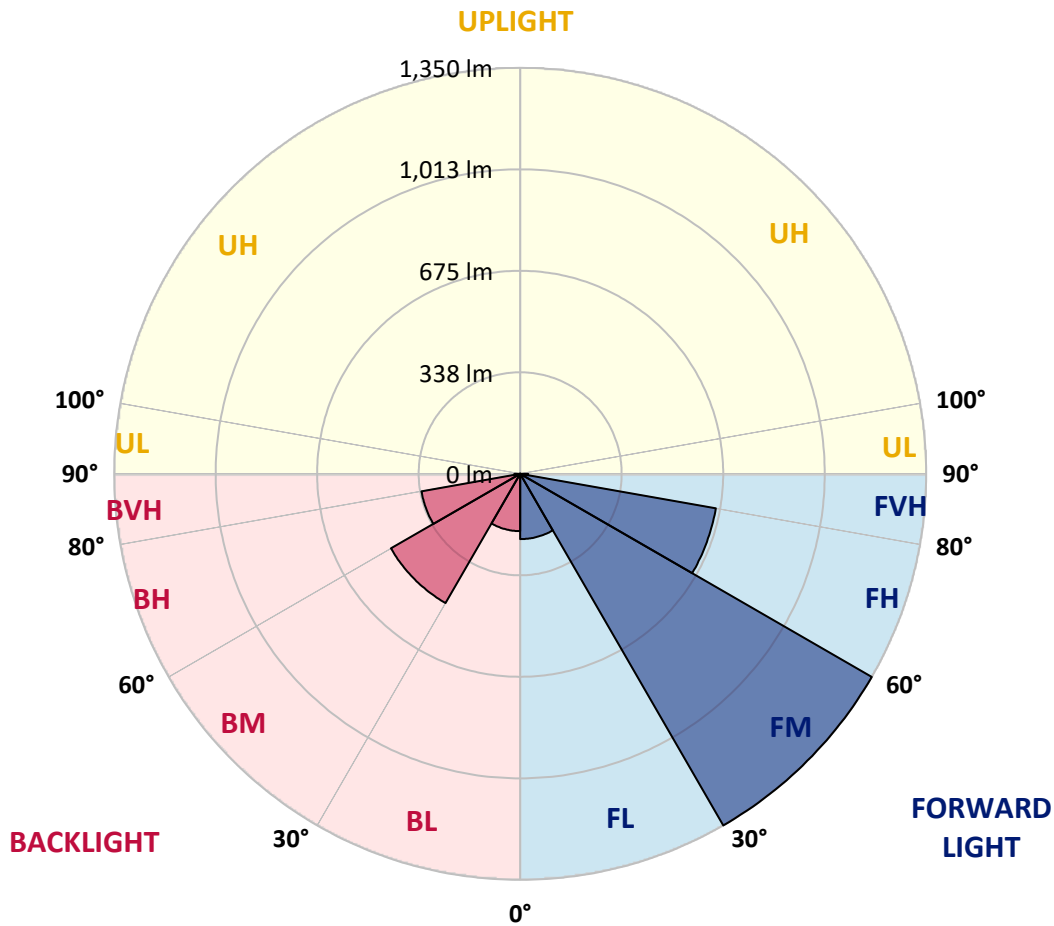


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	217.2	6.6			
FM (30°-60°)	1350.4	41.0			
FH (60°-80°)	660.9	20.1			G1/1800
FVH (80°-90°)	26.8	0.8			G1/100
BL (0°-30°)	190.7	5.8	B1/500		
BM (30°-60°)	496.4	15.1	B1/1000		
BH (60°-80°)	333.5	10.1	B1/500		G1/500
BVH (80°-90°)	19.2	0.6			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 Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	363.1	363.1	363.1	363.1	363.1	363.1	363.1	363.1	363.1	363.1
2.5°	360.7	359.7	360.5	360.5	360.9	360.7	361.9	362.2	362.8	363.8
5°	357.1	356.9	358.5	359.8	361.2	362.4	363.9	366.2	366.5	367.7
7.5°	355.9	354.9	357.3	359.0	362.2	365.1	369.2	373.0	374.5	375.1
10°	365.1	363.4	365.7	366.7	369.4	372.3	377.1	383.1	384.8	386.9
12.5°	380.9	379.0	382.2	383.8	386.3	388.9	392.2	398.0	398.8	402.6
15°	402.4	400.2	402.2	404.1	408.4	410.8	414.0	419.7	419.7	422.6
17.5°	431.6	428.7	430.3	431.0	433.7	437.3	442.8	447.7	450.3	449.3
20°	475.2	471.6	471.6	468.2	467.2	470.1	477.3	484.1	486.9	481.6
22.5°	540.7	535.6	532.7	521.1	516.4	516.8	524.0	532.3	534.6	525.2
25°	624.0	615.9	612.0	594.9	584.5	575.4	581.1	591.8	594.9	583.3
27.5°	707.2	707.7	704.0	683.5	666.2	649.6	646.7	658.0	661.2	648.1
30°	824.0	811.8	804.7	780.0	755.4	732.2	720.2	724.8	725.7	709.9
32.5°	924.7	921.6	906.2	884.7	853.0	816.6	796.6	789.3	787.9	765.5
35°	1039.4	1037.7	1021.4	995.8	961.6	911.0	874.9	853.9	852.2	820.7
37.5°	1156.0	1156.0	1140.1	1112.0	1076.6	1013.4	958.5	925.2	919.7	878.7
40°	1249.0	1243.3	1246.2	1234.4	1193.9	1126.7	1051.3	1003.0	995.6	946.4
42.5°	1301.8	1299.9	1317.3	1330.5	1313.9	1260.2	1153.6	1087.2	1077.0	1020.9
45°	1313.6	1311.5	1342.6	1390.8	1414.1	1392.0	1264.7	1176.0	1163.5	1098.9
47.5°	1286.4	1282.3	1327.9	1404.0	1478.5	1517.3	1385.0	1272.2	1254.1	1174.8
50°	1204.7	1200.7	1269.8	1370.8	1500.2	1602.5	1515.6	1374.3	1346.6	1256.1
52.5°	1027.1	1028.9	1137.1	1276.0	1471.7	1655.5	1628.1	1481.8	1448.4	1339.4
55°	800.0	804.1	937.1	1090.0	1357.5	1647.4	1704.9	1592.6	1559.4	1417.7
57.5°	572.8	591.0	715.6	866.9	1138.2	1520.1	1721.6	1697.9	1665.7	1503.2
60°	371.3	374.5	502.8	655.2	866.7	1293.7	1687.6	1777.7	1752.6	1590.3
62.5°	238.0	240.2	318.3	458.3	623.8	957.1	1573.1	1812.4	1804.7	1647.9
65°	174.9	173.2	213.9	302.9	420.2	590.3	1350.7	1795.6	1810.9	1684.0
67.5°	146.0	143.6	163.6	209.8	309.6	335.2	999.4	1686.7	1742.5	1679.9
70°	133.0	130.9	143.1	155.7	241.6	224.5	503.8	1466.4	1552.2	1633.2
72.5°	112.7	109.1	125.6	138.3	187.9	172.1	208.2	1126.4	1231.0	1483.7
75°	87.4	85.0	99.2	121.7	141.2	134.4	131.6	684.0	798.2	1147.4
77.5°	69.2	66.0	79.0	94.9	127.0	101.4	95.9	294.5	407.7	732.5
80°	52.1	49.2	60.0	75.0	97.6	76.4	62.1	120.2	153.7	371.1
82.5°	37.1	34.5	41.9	55.0	65.6	68.6	38.1	67.4	75.7	143.1
85°	23.8	22.2	28.0	34.5	41.7	44.1	23.2	35.2	38.6	59.0
87.5°	13.0	10.6	15.0	16.1	19.3	17.6	11.1	12.8	13.8	21.4
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°
363.1	0°	363.1	363.1	363.1	363.1	363.1	363.1	363.1	363.1	363.1	363.1
363.8	2.5°	364.5	365.0	366.7	367.2	368.4	369.9	371.0	372.0	372.0	373.0
369.2	5°	369.4	370.6	374.2	376.1	379.2	382.2	384.1	386.3	387.7	388.4
378.0	7.5°	379.0	380.9	386.0	389.2	394.5	398.8	401.7	404.8	405.5	407.4
390.1	10°	392.0	394.2	400.0	406.2	412.5	417.8	420.5	422.8	423.6	424.0
405.7	12.5°	406.9	410.1	417.6	425.1	431.8	436.4	437.1	436.6	434.2	432.2
424.8	15°	425.1	428.1	436.4	444.6	451.1	452.0	447.7	445.0	442.1	441.6
446.2	17.5°	447.0	448.6	456.3	464.3	464.8	461.9	455.6	453.0	450.3	448.4
474.0	20°	472.5	472.0	477.5	480.9	477.3	468.4	458.8	454.6	451.8	449.6
508.2	22.5°	502.9	499.0	498.3	497.5	487.9	469.3	456.3	450.8	446.5	443.4
555.9	25°	547.2	532.2	521.7	515.9	494.4	464.6	448.1	435.9	427.9	422.6
614.2	27.5°	602.6	577.3	551.0	536.8	494.4	455.2	428.2	408.6	395.4	389.9
670.6	30°	655.4	628.9	590.1	561.9	493.2	439.9	396.3	368.9	353.5	348.1
718.8	32.5°	700.5	671.7	631.7	589.4	490.3	414.9	356.6	326.3	311.5	305.0
766.5	35°	742.4	711.7	673.4	619.7	482.6	378.3	313.0	289.9	273.3	262.9
815.1	37.5°	785.3	748.8	712.9	647.0	468.7	335.6	279.5	259.8	240.4	226.3
866.7	40°	832.0	788.2	755.1	663.3	446.0	294.9	253.5	235.6	214.9	200.0
926.2	42.5°	886.5	835.6	802.1	671.7	414.9	266.0	236.6	219.0	199.5	187.4
990.0	45°	943.5	887.7	845.0	671.5	380.2	252.5	231.1	213.7	192.1	179.5
1055.4	47.5°	1003.1	942.3	882.1	660.5	350.1	254.4	228.0	202.2	178.5	166.2
1121.6	50°	1063.0	1001.9	918.0	640.0	337.3	250.3	216.6	186.2	158.1	147.0
1183.6	52.5°	1122.3	1065.4	948.9	610.8	324.3	235.1	201.9	165.3	149.8	142.1
1247.8	55°	1181.9	1128.1	982.6	568.2	291.8	217.3	177.3	157.4	143.1	136.1
1310.5	57.5°	1241.8	1200.6	1014.6	525.7	251.0	195.4	163.8	147.9	136.4	130.4
1363.0	60°	1304.0	1283.5	1047.6	486.5	210.6	167.4	153.9	140.2	128.6	121.9
1413.4	62.5°	1368.1	1374.8	1073.4	436.1	173.5	150.3	145.0	130.9	119.7	113.3
1455.1	65°	1432.7	1462.8	1090.3	366.2	140.7	134.0	135.4	120.9	109.4	103.9
1485.7	67.5°	1481.4	1526.2	1085.5	277.1	115.4	118.6	123.4	110.3	99.5	95.2
1480.8	70°	1486.9	1518.7	1038.3	189.8	96.6	103.6	110.1	99.8	88.7	85.6
1411.0	72.5°	1414.1	1416.1	906.9	123.9	81.7	90.9	96.1	89.2	78.5	75.4
1234.4	75°	1223.1	1171.2	665.8	81.7	68.4	78.1	82.9	78.1	67.7	68.4
923.6	77.5°	926.7	829.4	404.3	58.1	57.1	65.6	72.1	68.7	59.8	67.2
464.5	80°	477.5	448.7	180.4	43.4	45.1	52.5	59.3	54.9	47.4	45.1
103.8	82.5°	109.4	127.2	71.1	31.1	32.7	37.8	45.3	41.2	34.0	28.7
43.2	85°	38.3	41.9	31.5	19.5	19.1	23.6	30.8	27.5	23.1	18.5
18.3	87.5°	12.1	15.9	11.8	7.9	8.2	10.6	14.2	13.0	10.8	7.0
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>
363.1
373.0
388.7
406.7
423.1
432.2
441.6
448.6
449.8
444.5
424.6
392.7
351.3
308.2
266.3
230.1
202.9
189.8
181.5
167.9
147.7
142.1
135.4
129.4
121.4
113.2
103.8
95.4
85.8
75.2
66.0
59.1
41.2
28.4
19.5
7.4
0.0

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