

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: P944934

Luminaire Tested: **GALN-SB1A-740-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944934
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-740-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4738 lumens
Efficiency: N/A
Efficacy: 153.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

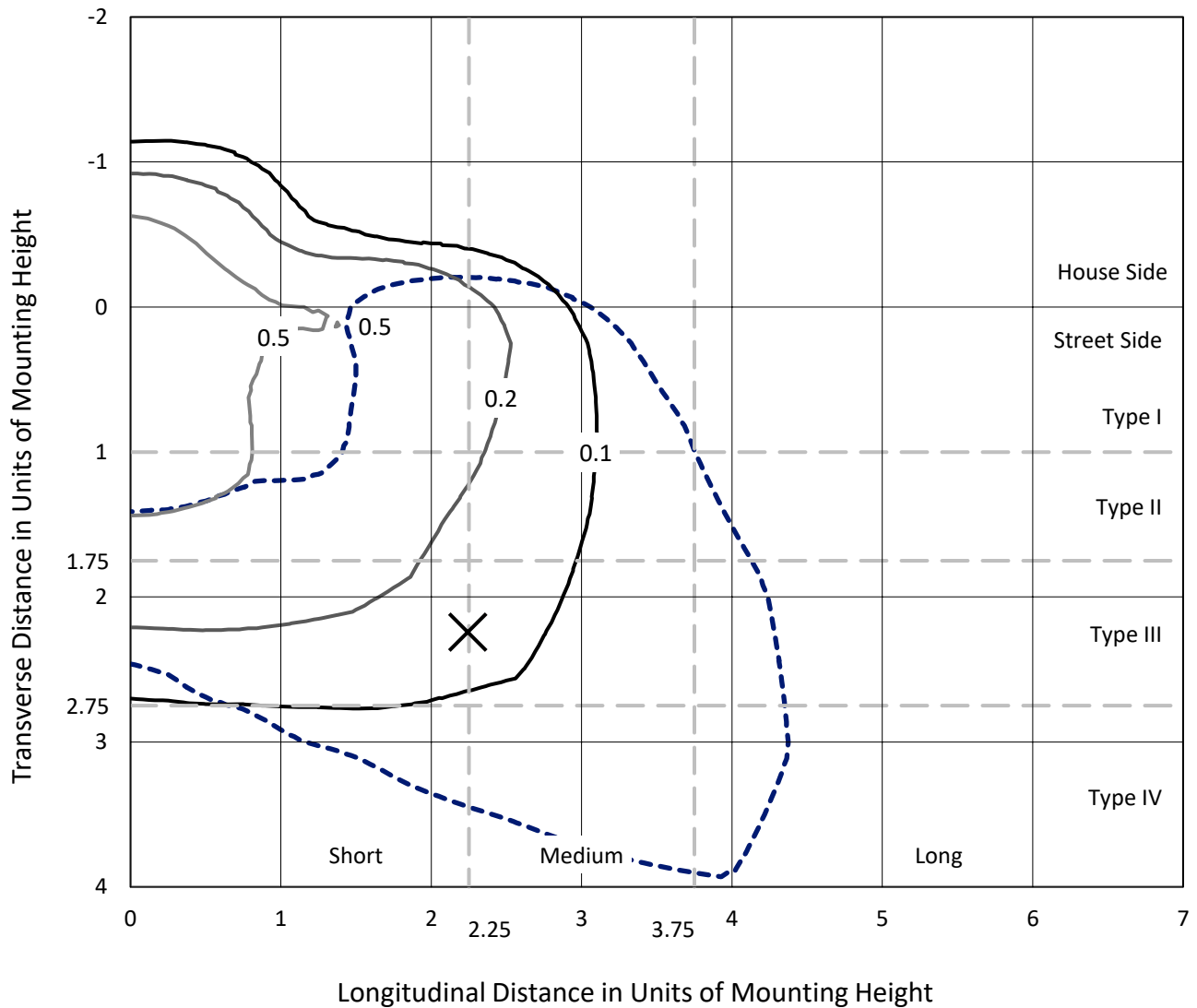
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

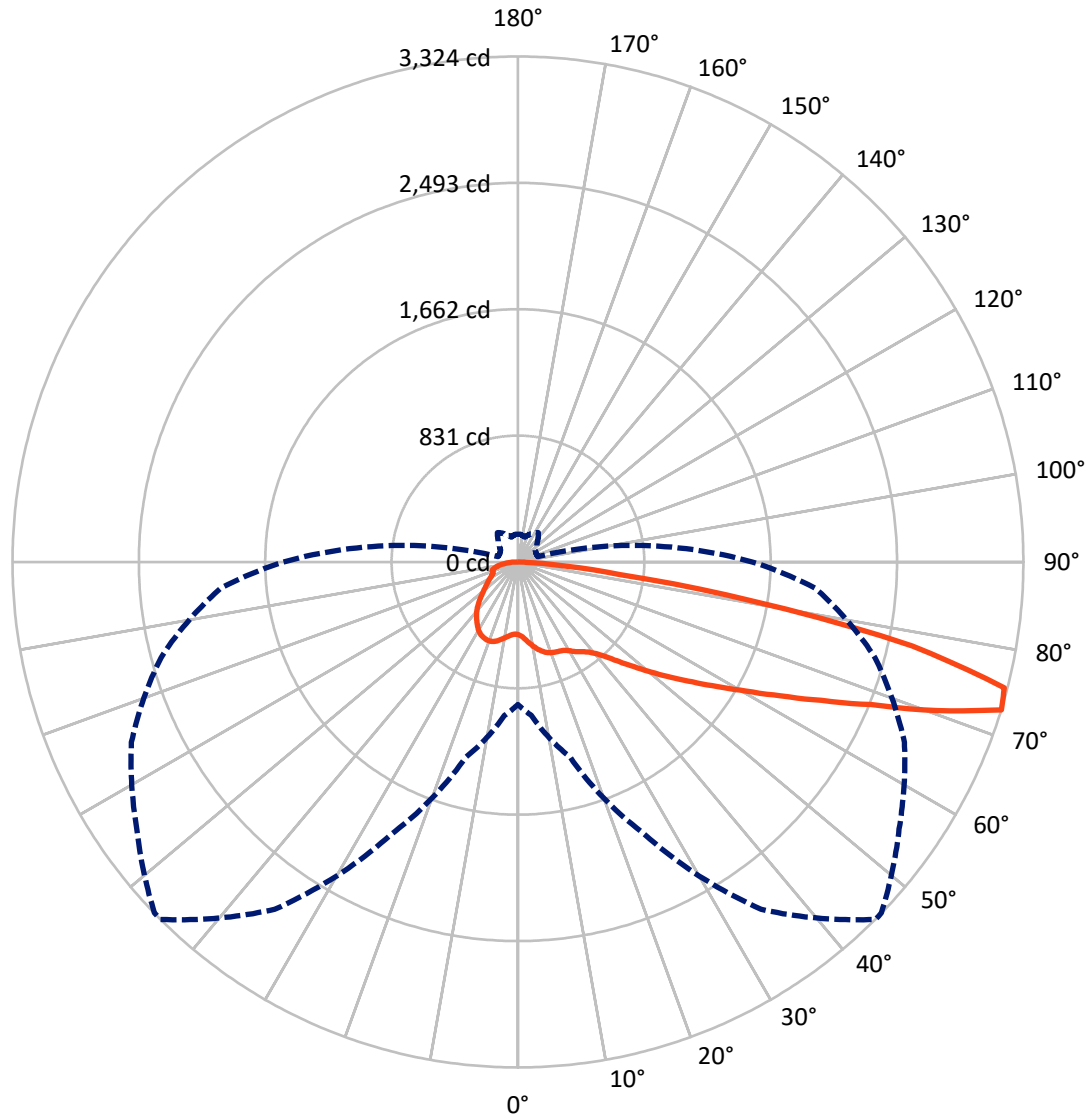
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1071.1	0.0	1071.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	3666.9	0.0	3666.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	4738.0	0.0	4738.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.6	1.0
10°-20°	162.2	3.4
20°-30°	282.2	6.0
30°-40°	404.5	8.5
40°-50°	569.5	12.0
50°-60°	872.4	18.4
60°-70°	1263.8	26.7
70°-80°	1009.2	21.3
80°-90°	125.7	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°	4738.0	100.0
0°-180°	4738.0	100.0

Coefficient of Utilization



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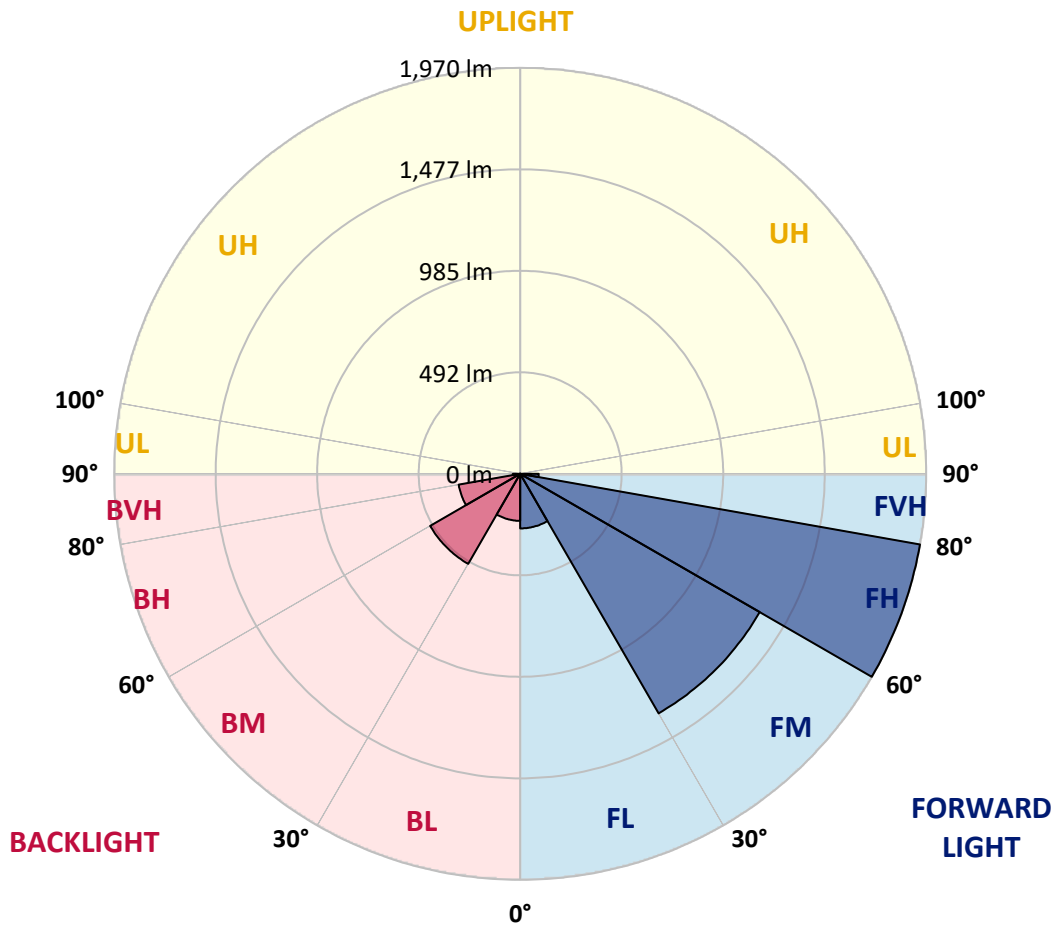
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	265.0	5.6			
FM (30°-60°)	1342.1	28.3			
FH (60°-80°)	1969.7	41.6			G2/5000
FVH (80°-90°)	90.2	1.9			G1/100
BL (0°-30°)	228.0	4.8	B1/500		
BM (30°-60°)	504.3	10.6	B1/1000		
BH (60°-80°)	303.2	6.4	B1/500		G1/500
BVH (80°-90°)	35.5	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-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	478.0	478.0	478.0	478.0	478.0	478.0	478.0	478.0	478.0	478.0
2.5°	496.7	499.9	496.9	494.2	492.9	489.7	489.5	487.5	486.2	482.7
5°	531.4	535.6	530.6	525.1	520.2	512.2	511.2	505.4	498.9	491.5
7.5°	570.6	574.3	568.6	560.3	551.6	538.4	538.1	527.6	517.4	504.7
10°	604.8	609.8	602.0	590.8	579.8	564.8	563.1	551.1	538.1	521.7
12.5°	635.0	638.5	631.0	617.2	604.5	589.5	587.3	574.1	559.6	540.9
15°	658.9	663.4	653.4	638.7	625.2	610.5	608.5	596.5	582.1	562.3
17.5°	674.7	678.4	668.2	651.7	638.7	626.5	625.0	615.0	602.3	582.3
20°	680.6	684.6	673.9	657.2	645.2	635.7	635.0	627.7	619.0	600.8
22.5°	686.6	690.4	676.4	658.9	648.4	642.5	642.2	637.5	634.0	619.0
25°	710.8	711.8	693.1	667.9	652.9	647.7	647.4	647.2	648.7	637.0
27.5°	731.8	731.6	715.6	691.9	668.7	657.7	657.4	659.9	664.7	654.9
30°	762.5	759.8	740.8	716.1	694.9	677.9	676.4	674.2	677.9	670.2
32.5°	827.7	818.9	788.2	744.3	716.6	703.6	701.6	687.6	689.1	684.4
35°	921.0	909.5	868.6	797.7	743.5	725.1	724.1	706.4	703.4	699.1
37.5°	1032.1	1017.8	970.2	875.1	790.0	750.0	748.5	732.6	720.3	715.8
40°	1143.6	1125.7	1086.2	969.4	858.4	791.7	787.0	762.8	748.8	741.3
42.5°	1252.0	1237.0	1203.3	1075.2	942.7	852.6	842.1	800.7	790.2	783.2
45°	1347.8	1334.3	1309.6	1188.3	1041.6	935.5	925.2	857.6	854.4	854.4
47.5°	1425.7	1422.7	1396.5	1303.6	1158.1	1029.8	1012.1	936.7	945.5	958.9
50°	1512.0	1503.8	1475.8	1417.2	1295.1	1137.9	1123.4	1033.8	1066.5	1103.5
52.5°	1591.4	1595.9	1564.7	1535.5	1449.9	1258.5	1233.0	1148.4	1219.0	1280.2
55°	1673.0	1673.3	1664.5	1660.5	1612.1	1391.7	1363.8	1286.2	1398.5	1474.4
57.5°	1749.7	1750.2	1763.1	1798.3	1800.3	1545.5	1513.8	1455.4	1597.9	1675.3
60°	1818.0	1821.5	1857.0	1939.3	1965.8	1721.7	1691.7	1655.3	1804.1	1881.9
62.5°	1841.0	1853.7	1932.6	2049.7	2129.3	1937.8	1908.4	1886.7	2020.7	2093.1
65°	1802.1	1831.3	1983.8	2140.8	2297.5	2194.7	2165.5	2141.8	2245.8	2314.0
67.5°	1706.5	1744.2	1980.8	2236.4	2501.7	2503.7	2476.5	2420.8	2487.2	2513.4
70°	1454.6	1511.0	1806.3	2272.1	2736.0	2926.2	2900.0	2756.8	2728.1	2601.3
72.5°	937.2	1013.1	1330.1	1978.3	2788.2	3323.8	3322.3	3060.0	2804.2	2430.5
75°	341.9	388.4	618.0	1241.7	2340.4	3303.6	3313.4	3008.1	2559.8	1877.4
77.5°	124.5	136.3	201.7	477.2	1439.4	2650.7	2670.9	2404.8	1822.0	942.2
80°	65.4	71.9	103.3	185.2	616.7	1574.2	1605.9	1429.2	856.4	283.8
82.5°	36.2	39.2	57.9	100.6	277.8	673.2	692.1	564.6	301.3	120.3
85°	19.5	20.7	27.2	54.9	135.8	233.4	238.6	168.7	120.1	70.6
87.5°	5.7	7.0	9.0	17.5	53.2	52.4	53.7	33.4	47.4	35.7
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°
478.0	0°	478.0	478.0	478.0	478.0	478.0	478.0	478.0	478.0	478.0	478.0
481.7	2.5°	480.2	479.5	476.7	475.5	474.0	473.7	475.0	475.2	475.5	475.7
487.2	5°	484.7	482.2	479.7	478.2	478.7	479.0	481.5	483.2	484.5	485.5
497.4	7.5°	493.4	491.5	487.2	487.0	487.7	490.0	493.2	497.2	499.4	501.2
510.7	10°	506.4	502.7	497.7	498.4	499.9	503.2	509.9	513.2	516.9	520.2
526.9	12.5°	519.7	516.4	510.7	511.2	513.7	519.4	525.9	529.9	532.4	534.9
544.4	15°	536.9	531.1	524.9	524.9	529.4	535.6	538.6	541.9	543.4	546.1
563.1	17.5°	554.6	547.1	538.9	538.4	543.9	546.9	548.6	549.1	549.6	552.6
581.3	20°	572.3	564.1	552.4	551.4	552.6	552.1	551.9	551.4	552.1	555.8
600.0	22.5°	589.8	580.3	564.1	559.6	556.1	551.4	551.1	550.9	551.4	555.1
620.2	25°	610.3	598.8	577.1	563.6	551.9	545.4	546.1	546.4	546.9	549.9
641.2	27.5°	632.5	619.7	589.0	562.3	541.1	536.6	535.4	536.1	537.9	542.6
662.2	30°	654.7	639.7	600.0	557.3	527.6	521.4	517.4	519.2	524.6	529.4
680.4	32.5°	674.9	659.9	608.8	546.4	510.4	500.7	495.4	497.7	503.2	504.9
700.6	35°	698.6	681.6	612.5	528.9	491.7	476.7	469.7	466.5	469.2	467.5
724.3	37.5°	725.1	707.3	612.0	505.9	469.7	452.5	442.8	430.5	424.8	418.8
759.3	40°	764.3	738.8	606.0	478.2	442.5	426.8	409.3	388.6	375.6	363.9
815.7	42.5°	817.7	782.5	595.0	447.8	411.8	397.1	373.4	349.2	328.7	309.2
901.3	45°	897.3	839.6	581.3	415.3	378.6	364.2	338.4	311.2	288.0	263.1
1022.8	47.5°	1012.1	916.5	568.3	378.4	343.7	330.5	307.2	282.0	254.6	230.4
1198.5	50°	1169.8	1026.8	556.3	342.4	309.2	299.3	280.8	255.1	227.4	207.9
1404.5	52.5°	1370.5	1176.8	551.4	307.7	277.0	273.3	258.6	234.6	208.4	191.9
1644.6	55°	1600.9	1356.3	551.4	274.6	248.8	250.1	239.9	217.6	194.9	180.2
1892.2	57.5°	1836.0	1538.0	541.4	243.9	224.9	230.1	223.6	204.2	183.7	168.5
2152.5	60°	2052.7	1690.2	500.9	215.9	203.7	211.9	207.7	190.9	166.0	153.3
2370.1	62.5°	2219.1	1776.1	423.1	193.7	186.2	195.7	193.4	173.5	162.7	157.5
2548.9	65°	2302.5	1762.1	323.5	174.0	171.5	186.2	181.5	180.7	172.2	166.2
2607.0	67.5°	2251.3	1641.8	234.6	159.5	163.0	177.5	195.7	198.7	183.0	171.2
2443.3	70°	2027.0	1424.2	174.7	145.8	152.3	177.7	223.1	207.9	179.5	165.7
1959.6	72.5°	1542.0	1062.0	135.5	131.3	138.3	179.0	235.4	203.7	169.5	183.2
1220.8	75°	881.8	583.1	108.8	113.6	120.8	167.2	229.1	192.7	161.7	168.2
483.7	77.5°	336.2	224.1	89.9	96.1	97.1	146.0	219.1	191.9	154.0	150.3
145.0	80°	116.6	87.6	74.4	76.4	75.1	129.8	210.2	167.0	126.0	112.8
59.9	82.5°	47.7	43.7	58.9	56.4	53.4	100.8	169.7	136.5	103.1	91.1
29.0	85°	20.7	27.7	38.9	34.2	30.9	69.9	136.0	115.6	87.1	75.1
9.5	87.5°	4.2	10.5	16.5	15.5	16.0	46.7	96.6	82.1	61.6	46.2
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

<u>180°</u>
478.0
476.7
486.0
501.7
519.4
535.9
547.1
553.6
557.3
557.6
553.8
547.4
534.6
511.2
473.0
422.6
364.7
307.5
260.1
227.6
206.7
190.7
178.7
166.0
151.3
155.7
164.2
169.2
163.5
181.7
168.2
137.0
109.1
90.1
74.9
36.2
0.0

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