

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: P945099

Luminaire Tested: **GALN-SB1A-927-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945099
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
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-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2274 lumens
Efficiency: N/A
Efficacy: 73.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B0 - U0 - G1

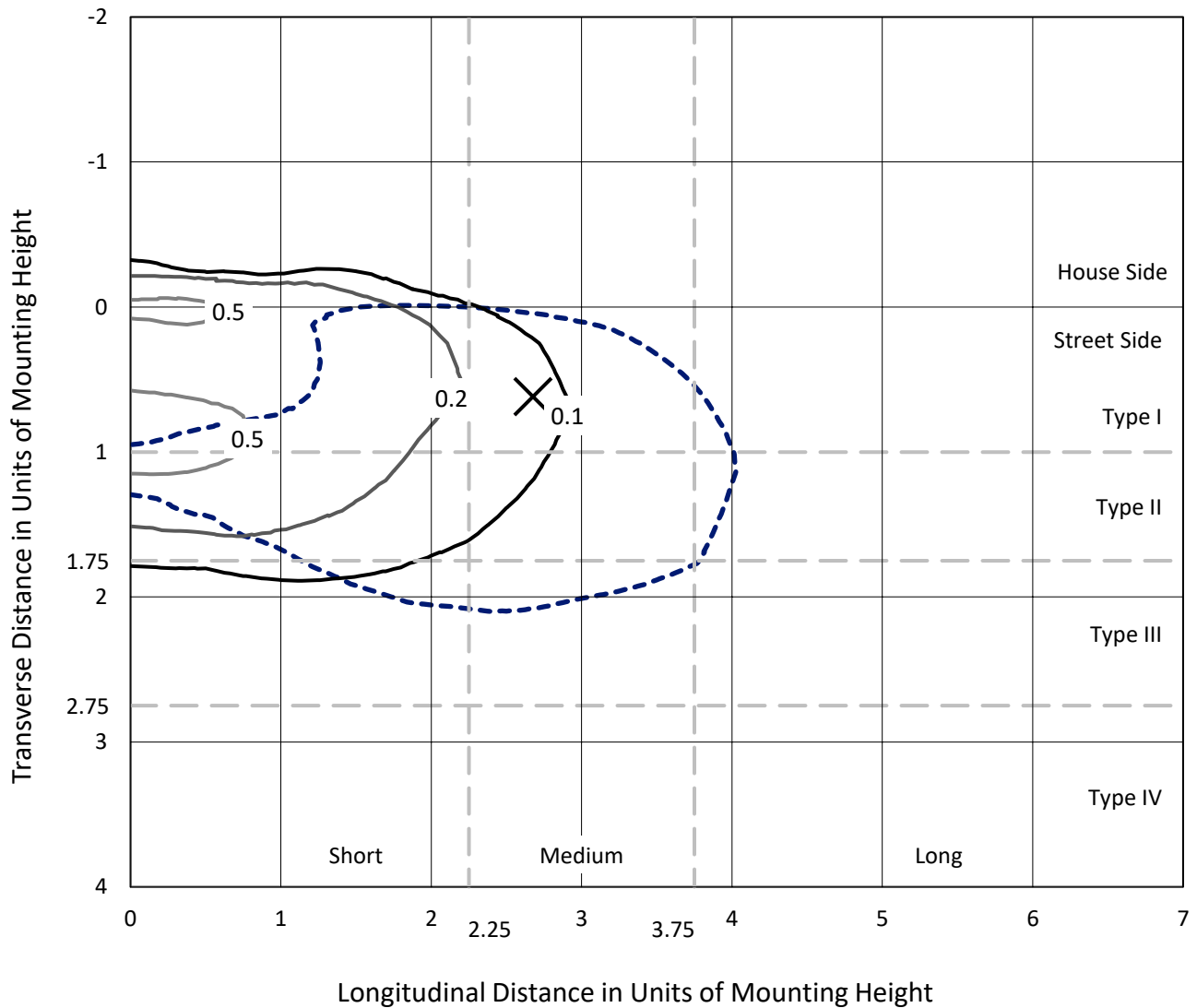
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

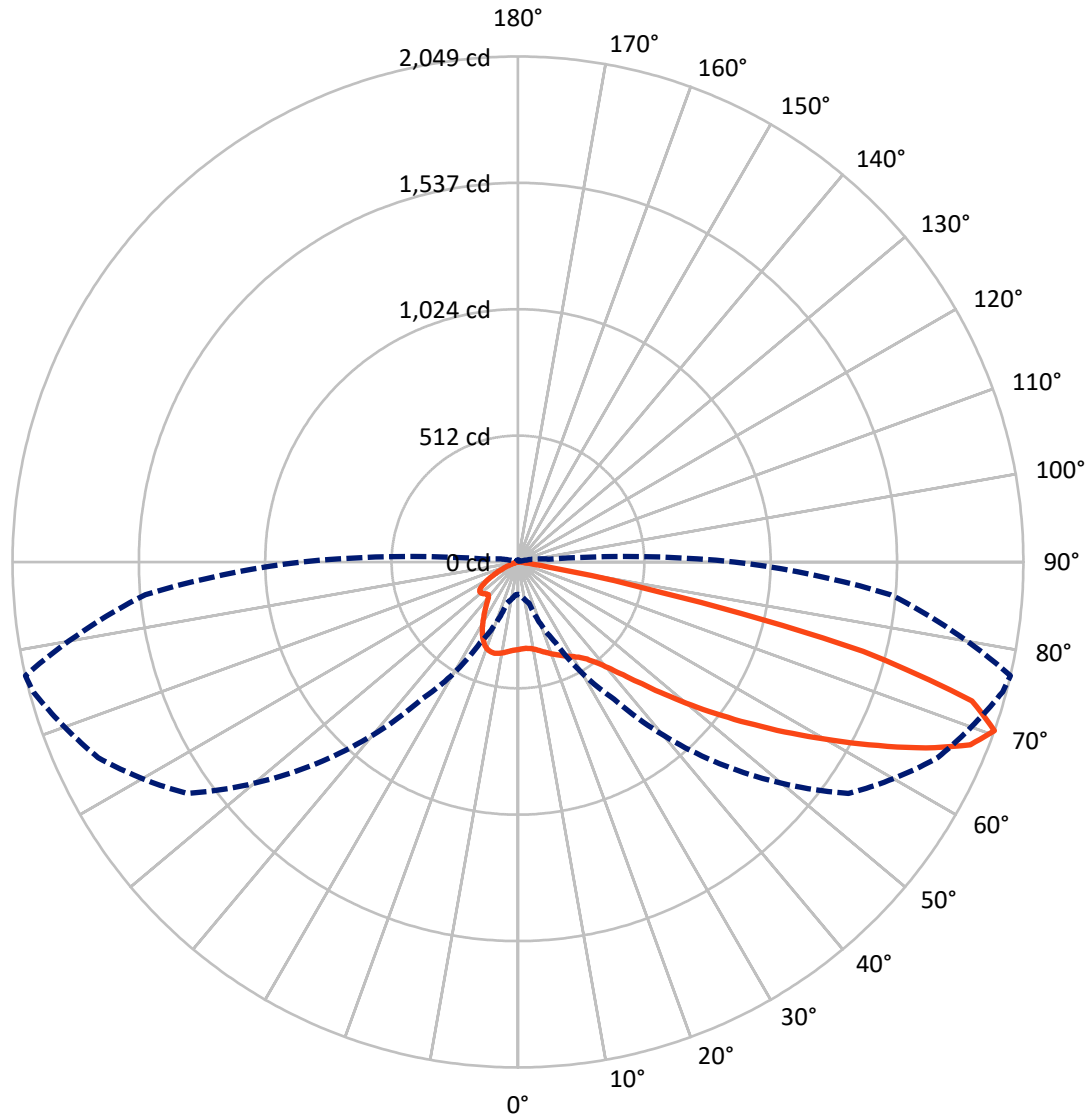
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	239.7	0.0	239.7
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	2034.3	0.0	2034.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	2274.0	0.0	2274.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.6	1.3
10°-20°	72.6	3.2
20°-30°	112.2	4.9
30°-40°	203.7	9.0
40°-50°	384.5	16.9
50°-60°	555.5	24.4
60°-70°	591.3	26.0
70°-80°	313.4	13.8
80°-90°	10.3	0.5
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°	2274.0	100.0
0°-180°	2274.0	100.0

Coefficient of Utilization



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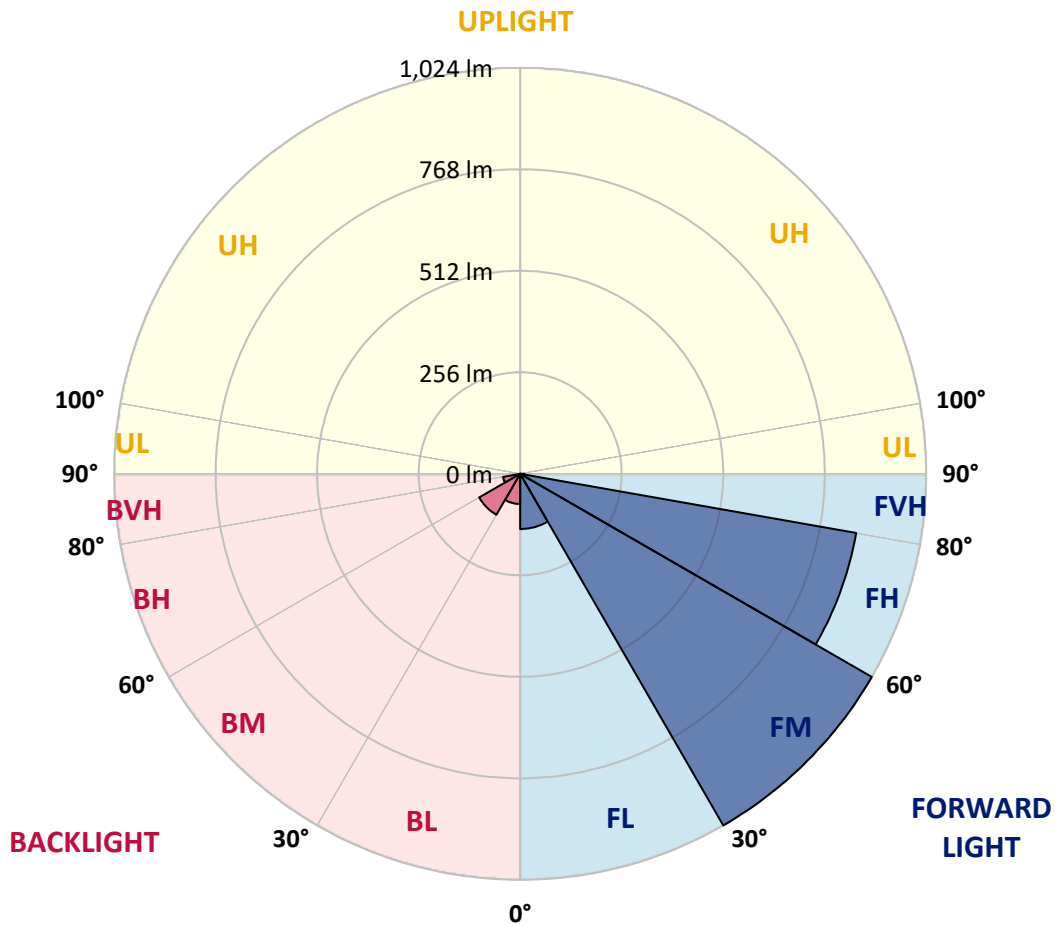
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	139.2	6.1			
FM (30°-60°)	1024.3	45.0			
FH (60°-80°)	860.7	37.9			G1/1800
FVH (80°-90°)	10.0	0.4			G1/100
BL (0°-30°)	76.2	3.3	B0/110		
BM (30°-60°)	119.3	5.2	B0/220		
BH (60°-80°)	43.9	1.9	B0/110		G0/110
BVH (80°-90°)	0.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	354.7	354.7	354.7	354.7	354.7	354.7	354.7	354.7	354.7	354.7
2.5°	333.0	336.0	335.6	337.6	338.3	341.2	344.1	348.0	352.3	352.1
5°	314.2	317.2	317.9	320.7	324.1	328.6	334.5	342.2	350.3	351.5
7.5°	291.9	295.1	297.0	302.4	308.7	317.9	327.6	338.9	352.3	354.1
10°	269.7	272.6	275.0	282.8	292.8	306.5	322.1	338.5	356.4	359.2
12.5°	255.9	258.6	261.4	268.1	280.6	297.3	318.5	340.5	363.3	367.2
15°	251.0	253.5	255.6	261.6	273.3	292.2	317.8	344.7	372.1	377.2
17.5°	251.7	253.0	254.5	259.1	270.4	289.9	319.1	351.8	382.4	387.0
20°	255.9	256.6	256.8	259.9	270.0	289.7	321.7	358.7	392.2	398.4
22.5°	261.2	261.5	261.2	263.4	272.7	291.8	325.1	367.1	403.1	408.8
25°	286.1	280.6	273.7	269.5	277.3	296.0	330.3	378.3	415.0	420.6
27.5°	363.2	347.5	322.8	295.1	286.8	302.0	337.5	389.6	427.1	432.1
30°	488.4	467.9	425.9	363.5	317.2	314.6	346.8	400.9	439.9	445.3
32.5°	613.9	608.9	560.5	474.0	385.7	342.8	362.3	416.3	456.8	461.1
35°	740.9	730.7	691.0	605.6	491.3	400.1	388.2	436.4	479.1	483.9
37.5°	838.1	831.9	807.3	737.0	616.5	488.5	432.4	467.6	511.4	516.8
40°	924.0	921.1	912.7	866.4	756.5	604.3	501.2	515.8	556.2	562.6
42.5°	991.4	998.2	1002.9	990.0	900.8	736.4	593.7	583.6	618.6	625.3
45°	1060.5	1062.8	1081.9	1100.6	1044.1	874.6	697.9	663.0	696.3	704.5
47.5°	1104.9	1114.1	1147.7	1180.6	1164.6	1011.5	809.9	756.8	786.4	801.7
50°	1108.2	1125.6	1171.8	1229.1	1252.4	1141.9	931.7	863.6	895.1	912.0
52.5°	1053.2	1080.2	1151.9	1235.7	1299.8	1252.4	1057.6	970.5	1010.8	1032.9
55°	807.5	842.8	1076.7	1199.8	1301.6	1336.1	1180.3	1081.8	1139.8	1164.8
57.5°	703.5	721.3	846.5	1137.5	1267.0	1369.8	1291.1	1187.8	1280.1	1311.1
60°	585.3	608.7	710.0	1035.5	1220.1	1373.1	1389.1	1324.5	1432.2	1467.1
62.5°	397.8	423.2	523.9	860.3	1155.9	1371.6	1469.4	1465.2	1601.2	1638.7
65°	246.4	262.4	328.7	702.5	1066.1	1373.3	1553.4	1636.1	1779.5	1817.6
67.5°	194.7	202.1	236.7	539.4	911.5	1334.5	1637.2	1796.8	1947.4	1977.6
70°	130.8	135.3	172.2	361.6	678.1	1155.6	1635.7	1877.5	2033.9	2048.9
72.5°	68.9	72.4	100.7	167.4	409.6	821.4	1378.7	1781.0	1947.9	1925.2
75°	34.5	40.2	67.8	85.0	174.9	458.1	856.2	1404.2	1533.1	1445.2
77.5°	26.1	31.6	56.0	56.0	60.9	154.2	362.6	765.8	706.4	588.2
80°	16.7	21.5	49.0	42.4	25.4	39.2	94.5	214.5	150.1	114.2
82.5°	9.8	14.1	40.8	28.0	14.2	14.5	26.7	45.7	38.9	30.3
85°	3.9	9.2	28.0	11.1	5.6	3.6	8.0	9.8	8.0	6.0
87.5°	0.0	2.2	4.9	0.0	0.4	0.3	0.6	0.7	0.7	0.6
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°
354.7	0°	354.7	354.7	354.7	354.7	354.7	354.7	354.7	354.7	354.7	354.7
355.0	2.5°	356.3	356.6	357.4	357.6	355.6	353.0	352.0	351.5	349.8	349.7
357.3	5°	360.6	361.9	360.6	356.9	348.0	335.5	326.0	318.2	311.2	309.0
365.2	7.5°	369.2	370.5	366.6	352.0	329.6	304.7	282.3	266.5	252.3	247.0
374.8	10°	381.6	383.3	371.1	341.5	301.9	261.9	224.0	197.3	176.5	168.0
387.9	12.5°	397.1	397.8	373.5	325.6	265.8	208.8	155.1	126.5	108.0	101.1
403.7	15°	414.2	413.1	373.8	303.9	216.7	147.6	101.2	83.1	75.7	73.4
419.5	17.5°	432.1	427.9	368.1	272.6	162.8	101.0	75.1	70.8	69.5	68.9
435.1	20°	449.8	440.4	357.6	231.6	116.9	75.4	68.2	66.9	66.2	65.9
450.9	22.5°	465.9	449.9	339.6	184.1	84.9	66.6	64.5	63.3	62.0	61.5
466.3	25°	481.5	455.4	314.4	139.7	67.9	62.3	60.6	58.4	56.7	56.0
482.8	27.5°	496.7	458.8	282.8	103.4	60.6	58.3	55.1	52.1	50.8	50.5
500.5	30°	513.0	460.0	246.9	77.1	56.1	53.3	48.7	45.2	44.5	44.7
524.3	32.5°	532.8	461.7	210.7	63.2	52.4	47.2	41.8	38.2	37.6	38.2
559.1	35°	556.5	465.1	175.8	58.2	49.1	41.1	35.2	32.2	31.6	32.0
603.6	37.5°	588.6	470.7	143.2	57.2	46.4	35.9	29.6	27.1	27.1	27.3
658.1	40°	631.4	485.7	114.0	56.4	44.9	32.0	25.0	24.0	24.4	24.7
727.6	42.5°	683.6	517.4	94.3	55.6	43.4	30.3	22.7	22.3	23.0	23.3
810.9	45°	742.0	557.6	87.5	54.1	41.9	31.4	21.7	21.1	22.0	22.1
904.3	47.5°	802.5	597.0	86.6	52.6	40.5	33.2	21.4	20.1	21.1	21.3
1003.9	50°	863.6	622.7	87.5	50.1	38.2	33.2	21.5	19.1	20.0	20.4
1107.3	52.5°	925.2	634.4	86.9	44.8	34.2	31.2	21.5	18.2	19.1	19.4
1219.1	55°	985.0	632.1	78.1	36.9	29.0	27.6	21.0	17.5	18.1	18.2
1324.6	57.5°	1032.2	600.1	61.9	28.7	23.6	23.0	19.1	16.7	17.1	16.9
1421.4	60°	1056.9	529.8	44.2	22.1	18.5	18.1	16.8	15.5	15.8	15.1
1503.4	62.5°	1057.2	436.7	29.6	17.5	14.8	14.4	14.4	13.9	13.6	12.2
1566.9	65°	1034.7	333.4	19.7	13.9	11.9	11.2	12.1	11.9	10.9	8.9
1586.3	67.5°	983.5	218.6	14.9	10.9	9.2	8.8	9.6	10.1	9.3	7.5
1515.6	70°	878.4	127.2	12.3	8.5	6.9	6.5	7.8	8.6	7.8	6.0
1295.5	72.5°	729.7	68.6	10.1	6.3	4.7	4.3	6.2	7.0	6.2	4.5
831.2	75°	473.5	36.8	7.8	4.2	2.4	2.7	4.6	5.2	4.3	2.9
244.0	77.5°	159.0	16.2	4.9	2.0	1.1	1.1	2.7	3.2	2.0	1.0
44.4	80°	35.5	6.7	2.0	0.9	0.4	0.4	0.6	0.6	0.3	0.0
13.6	82.5°	11.6	2.7	0.9	0.3	0.0	0.0	0.0	0.0	0.0	0.0
3.4	85°	4.5	1.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.1	87.5°	1.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
354.7
350.0
307.7
244.8
164.4
98.9
73.4
68.8
65.6
61.3
55.7
50.3
44.7
38.1
31.9
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24.7
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