

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: P945100

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945100
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
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
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2804 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

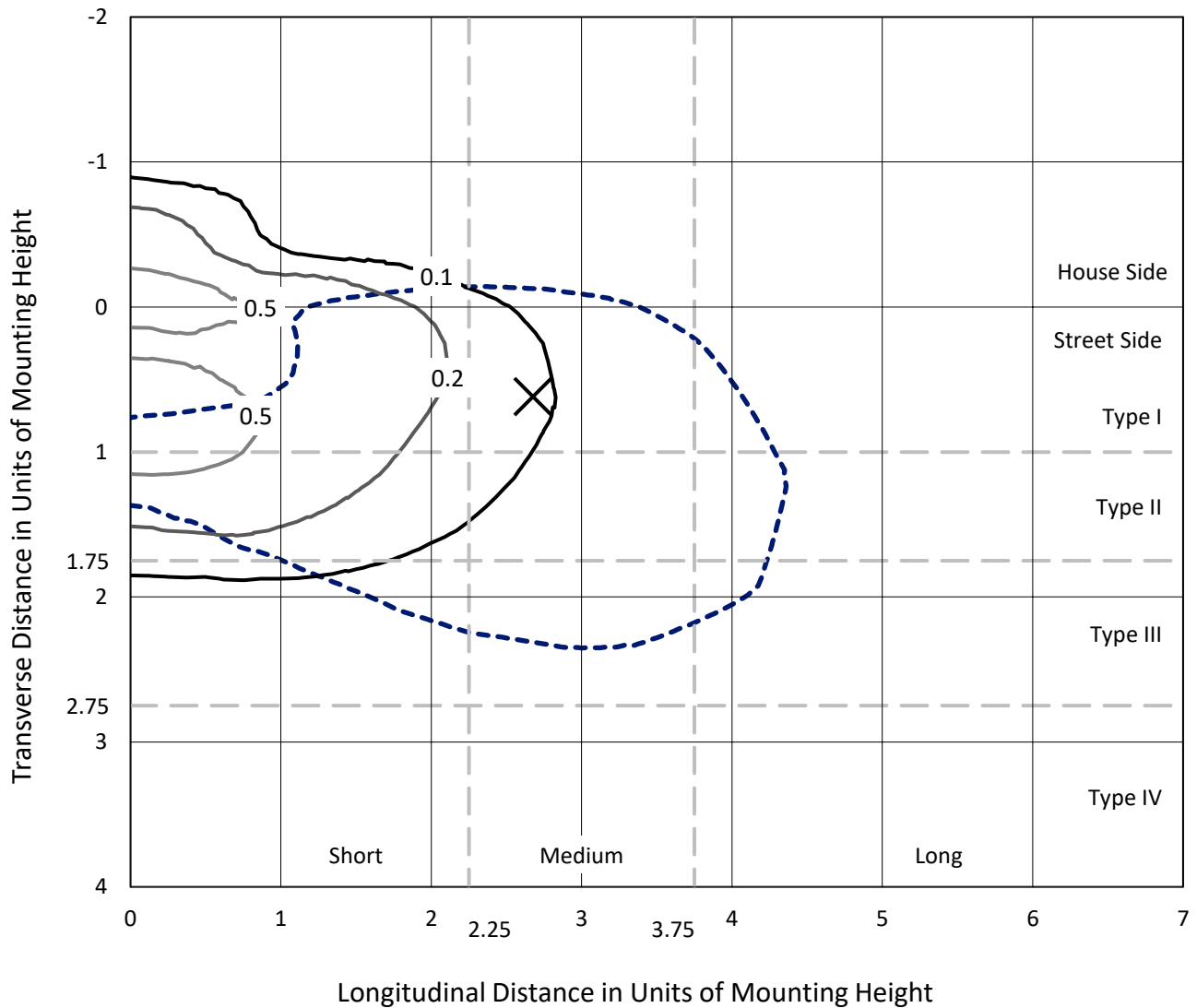
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

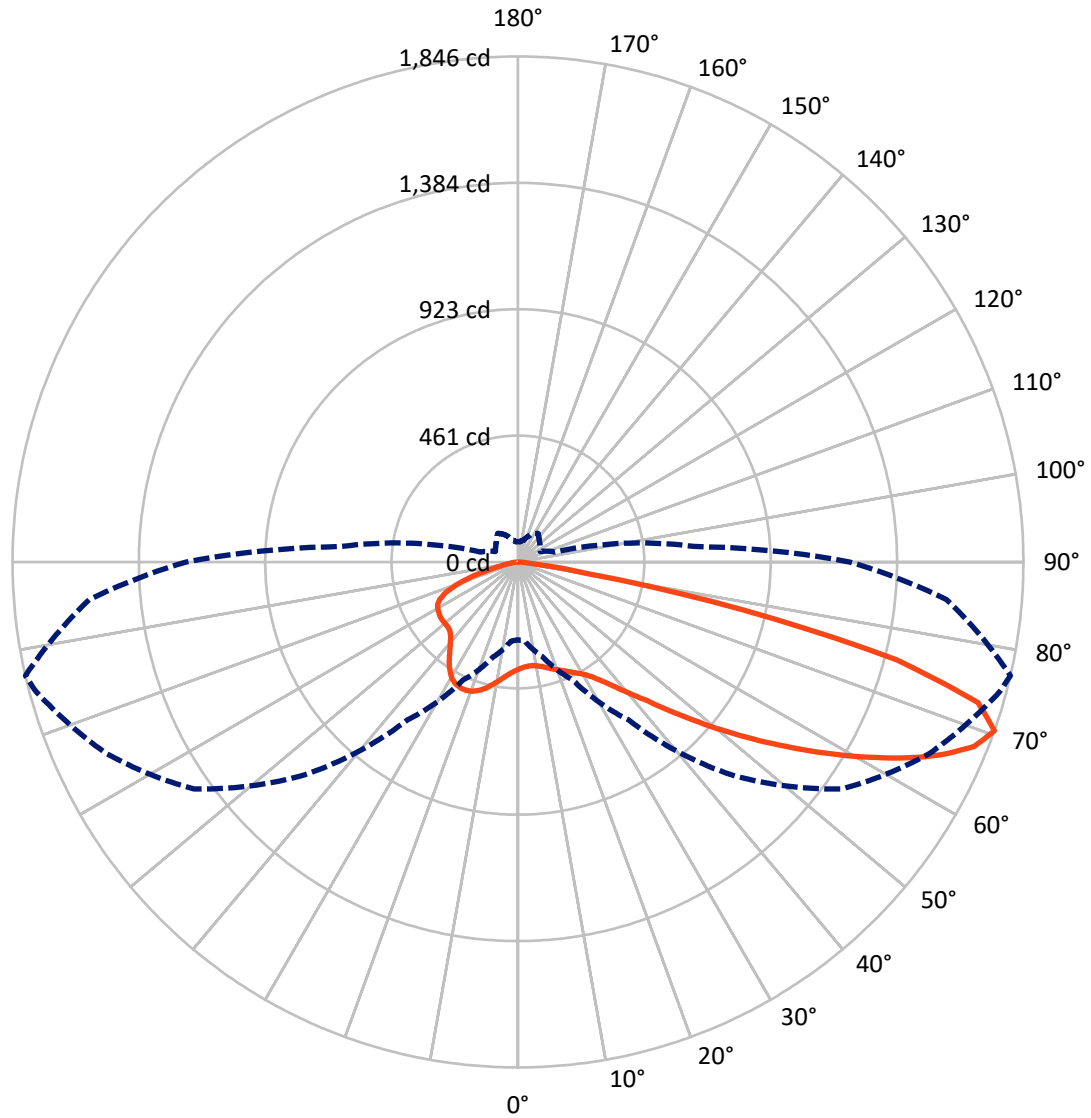
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	614.0	0.0	614.0
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	2190.0	0.0	2190.0
	% Fixture	78.1	0.0	78.1
Total	Lumens	2804.0	0.0	2804.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.3	1.3
10°-20°	107.7	3.8
20°-30°	184.1	6.6
30°-40°	296.1	10.6
40°-50°	462.3	16.5
50°-60°	617.5	22.0
60°-70°	658.2	23.5
70°-80°	405.2	14.5
80°-90°	35.5	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°	2804.0	100.0
0°-180°	2804.0	100.0

Coefficient of Utilization



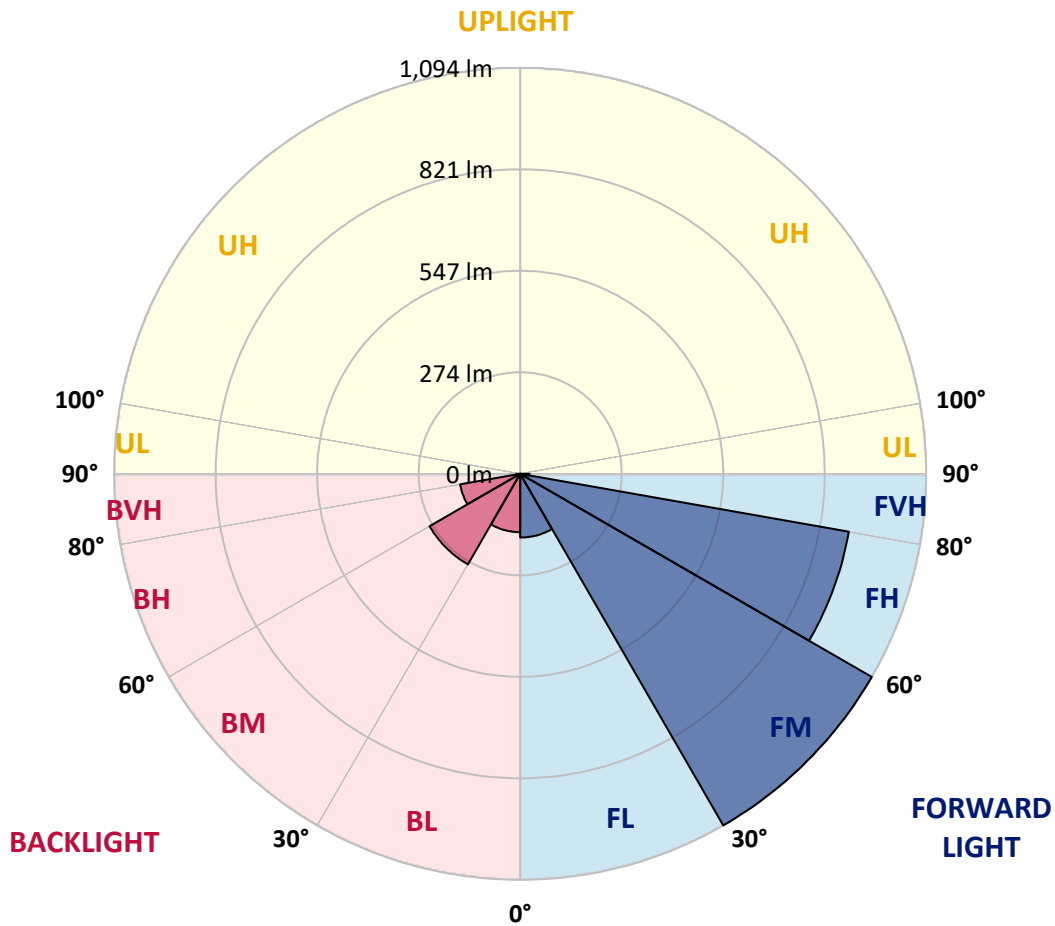
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	171.8	6.1			
FM (30°-60°)	1094.1	39.0			
FH (60°-80°)	899.3	32.1			G1/1800
FVH (80°-90°)	24.8	0.9			G1/100
BL (0°-30°)	157.3	5.6	B1/500		
BM (30°-60°)	281.9	10.1	B1/1000		
BH (60°-80°)	164.1	5.9	B1/500		G1/500
BVH (80°-90°)	10.7	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	391.2	391.2	391.2	391.2	391.2	391.2	391.2	391.2	391.2	391.2
2.5°	360.6	360.5	362.3	362.9	366.3	368.8	373.4	378.3	384.6	385.3
5°	339.8	339.8	341.9	344.2	348.7	353.6	360.6	369.1	380.0	381.7
7.5°	322.1	323.3	325.1	329.6	334.7	341.8	352.6	364.6	379.0	381.7
10°	307.9	309.2	311.5	315.1	322.8	332.6	346.7	362.2	381.4	385.7
12.5°	303.4	304.7	306.0	308.8	315.9	327.4	344.2	363.3	387.3	391.6
15°	313.8	315.4	314.4	313.6	317.4	327.9	345.4	367.5	394.6	400.8
17.5°	337.6	338.2	335.9	329.1	328.6	334.2	350.8	373.2	403.8	410.6
20°	376.1	375.1	370.4	357.0	349.4	348.2	360.2	381.8	413.3	420.5
22.5°	428.4	427.2	417.8	396.6	379.7	368.5	373.7	393.1	423.9	432.0
25°	493.6	492.0	478.1	449.3	423.1	395.3	392.0	407.8	437.0	444.5
27.5°	569.7	568.4	553.3	515.4	477.5	432.1	414.9	425.2	450.6	459.1
30°	651.5	655.3	628.6	587.8	539.8	480.1	445.6	446.6	468.3	475.9
32.5°	747.8	754.2	722.1	670.4	604.9	532.2	484.4	476.5	494.0	500.3
35°	843.1	850.4	823.7	766.6	691.2	593.7	524.9	510.8	528.2	535.1
37.5°	925.5	935.3	921.5	871.8	783.5	667.8	577.7	551.2	570.3	578.9
40°	990.6	1005.5	1004.5	973.5	892.4	757.7	644.8	601.0	622.5	631.9
42.5°	1043.4	1056.4	1067.6	1066.0	1006.0	859.8	723.6	665.8	682.1	692.9
45°	1079.9	1093.7	1117.8	1143.8	1115.2	969.1	814.0	742.6	757.5	773.8
47.5°	1112.5	1128.2	1159.5	1200.7	1208.0	1078.8	912.9	832.1	845.7	862.5
50°	1115.4	1128.9	1177.4	1235.9	1273.9	1184.2	1019.2	932.4	945.2	963.2
52.5°	1046.0	1067.3	1152.0	1234.9	1304.2	1272.4	1124.7	1036.8	1051.2	1072.7
55°	812.0	843.1	1077.5	1196.4	1293.5	1329.4	1225.1	1147.8	1166.2	1188.8
57.5°	699.4	713.0	855.3	1126.3	1244.3	1344.2	1309.8	1260.0	1289.6	1314.3
60°	628.6	639.9	724.1	1017.3	1179.7	1320.7	1375.3	1364.5	1415.7	1445.1
62.5°	552.7	563.5	640.1	849.4	1097.0	1281.8	1416.7	1461.1	1544.9	1577.1
65°	477.5	486.7	560.1	713.7	991.9	1242.9	1438.1	1544.5	1664.5	1697.9
67.5°	393.6	401.2	470.6	602.1	864.1	1189.6	1448.7	1610.1	1768.7	1797.2
70°	284.1	289.9	361.6	476.2	703.7	1098.0	1444.4	1656.6	1822.7	1845.5
72.5°	134.3	139.6	223.7	309.2	497.0	919.7	1357.2	1619.7	1767.8	1756.4
75°	71.7	76.3	128.5	169.6	262.5	630.4	1110.7	1395.3	1484.5	1429.3
77.5°	48.5	52.1	79.6	101.8	119.9	299.3	713.9	966.0	929.4	838.4
80°	38.5	42.2	65.2	68.9	58.0	108.1	295.0	447.2	321.2	256.9
82.5°	29.6	33.7	54.9	50.0	31.6	44.4	85.9	141.5	82.3	62.6
85°	18.1	22.5	43.1	31.9	17.8	20.2	29.2	39.3	25.1	21.0
87.5°	9.2	12.9	21.8	11.6	8.0	4.7	7.8	7.8	6.6	5.7
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°
391.2	0°	391.2	391.2	391.2	391.2	391.2	391.2	391.2	391.2	391.2	391.2
389.2	2.5°	392.6	395.5	400.4	405.0	408.6	412.0	415.5	417.3	417.9	420.2
391.3	5°	397.2	402.5	412.0	420.9	426.5	430.0	432.4	433.8	434.1	434.8
397.2	7.5°	405.7	414.2	427.4	436.3	440.4	440.2	439.1	435.6	434.1	432.8
405.8	10°	417.6	428.8	445.0	451.2	448.6	441.7	432.8	422.3	417.5	412.7
417.6	12.5°	432.4	446.6	462.6	462.3	449.5	431.8	411.1	395.1	384.9	377.5
432.1	15°	450.3	466.7	478.9	469.2	441.2	409.4	379.1	358.2	349.0	340.9
446.8	17.5°	468.9	486.4	492.0	467.0	420.2	376.2	341.9	325.4	316.4	312.1
462.6	20°	487.0	504.3	499.7	454.7	388.3	338.6	308.0	299.0	297.1	298.1
477.9	22.5°	506.1	521.6	501.3	430.8	347.7	300.1	283.3	283.6	287.8	290.8
494.0	25°	525.6	536.1	497.2	396.4	304.0	271.8	267.7	272.3	280.5	286.4
512.1	27.5°	544.4	549.0	488.1	353.7	266.5	251.6	252.3	261.8	274.1	282.3
534.1	30°	565.7	560.5	470.7	305.7	240.5	234.2	240.3	251.3	263.7	271.0
561.8	32.5°	589.6	570.4	443.2	261.4	222.2	220.3	230.2	237.4	242.8	245.0
598.6	35°	619.5	584.3	407.8	230.2	205.6	210.1	219.6	216.0	213.8	212.7
648.0	37.5°	658.3	603.1	366.5	210.0	192.3	202.8	206.6	195.4	187.0	182.8
707.8	40°	705.0	630.7	326.7	194.3	183.8	196.5	189.7	176.2	165.4	159.5
775.2	42.5°	756.8	659.6	293.2	182.5	179.1	191.3	177.2	161.1	143.7	141.9
855.5	45°	811.2	689.3	270.4	173.5	176.8	186.8	170.0	144.0	131.7	139.3
936.0	47.5°	865.7	716.6	256.6	166.7	175.6	181.8	163.7	134.6	125.8	136.9
1022.3	50°	926.3	741.0	250.4	161.8	174.3	179.8	154.2	132.1	119.6	126.9
1111.7	52.5°	986.4	760.0	245.9	157.0	172.5	178.2	149.6	129.2	112.2	112.6
1201.6	55°	1046.5	772.3	240.8	150.5	168.3	174.8	149.2	126.1	106.6	104.5
1296.6	57.5°	1110.5	779.4	234.7	143.3	161.1	166.0	148.8	123.6	104.8	101.5
1393.8	60°	1175.7	789.7	226.6	134.6	151.5	155.5	147.8	122.8	103.8	98.2
1485.5	62.5°	1234.2	793.3	217.0	126.2	139.2	145.2	145.6	122.1	101.1	91.5
1561.6	65°	1272.5	777.8	200.2	116.8	125.8	134.6	141.5	119.6	96.2	86.6
1599.2	67.5°	1270.9	733.5	173.9	104.5	112.9	122.8	135.4	115.5	90.3	80.6
1570.8	70°	1211.8	646.2	140.6	90.3	98.7	110.1	127.7	109.3	83.3	74.0
1396.7	72.5°	1039.3	505.8	102.1	73.7	82.1	97.1	117.6	101.8	76.1	68.1
1032.2	75°	742.4	320.1	69.2	56.6	63.9	82.3	105.1	93.1	69.5	68.4
517.0	77.5°	379.3	152.9	45.8	41.4	44.5	64.9	88.3	83.1	70.5	56.4
147.1	80°	123.4	56.4	28.9	28.1	29.6	43.2	68.4	68.2	53.4	38.3
35.6	82.5°	39.3	24.3	18.8	18.1	17.4	27.1	47.7	54.0	36.0	24.3
12.8	85°	15.7	14.5	11.1	10.2	7.3	12.8	25.0	35.9	26.9	17.5
3.3	87.5°	5.7	5.7	3.0	2.2	1.6	4.3	6.7	10.8	15.4	9.0
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>
391.2
421.5
436.0
433.1
411.3
375.8
340.1
313.3
297.7
291.5
287.9
284.3
272.7
246.1
213.8
183.8
160.0
143.7
143.3
142.0
132.4
115.6
106.0
102.0
98.7
91.5
86.6
81.0
74.8
67.6
64.5
50.3
33.9
24.1
18.0
8.9
0.0

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