

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: P938879

Luminaire Tested: **GALN-SB1A-950-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938879
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-950-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 5000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3085 lumens
Efficiency: N/A
Efficacy: 99.8 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

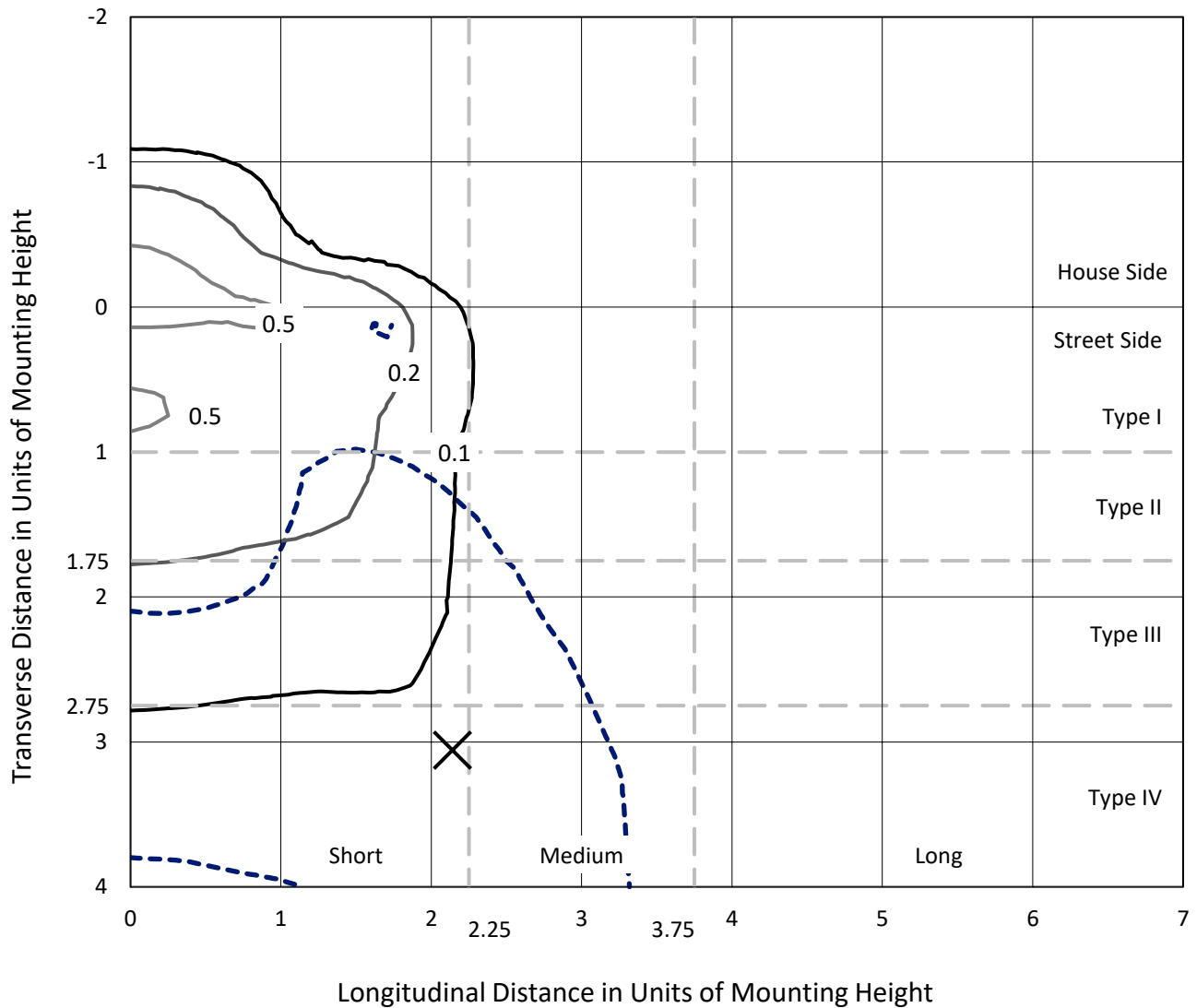
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

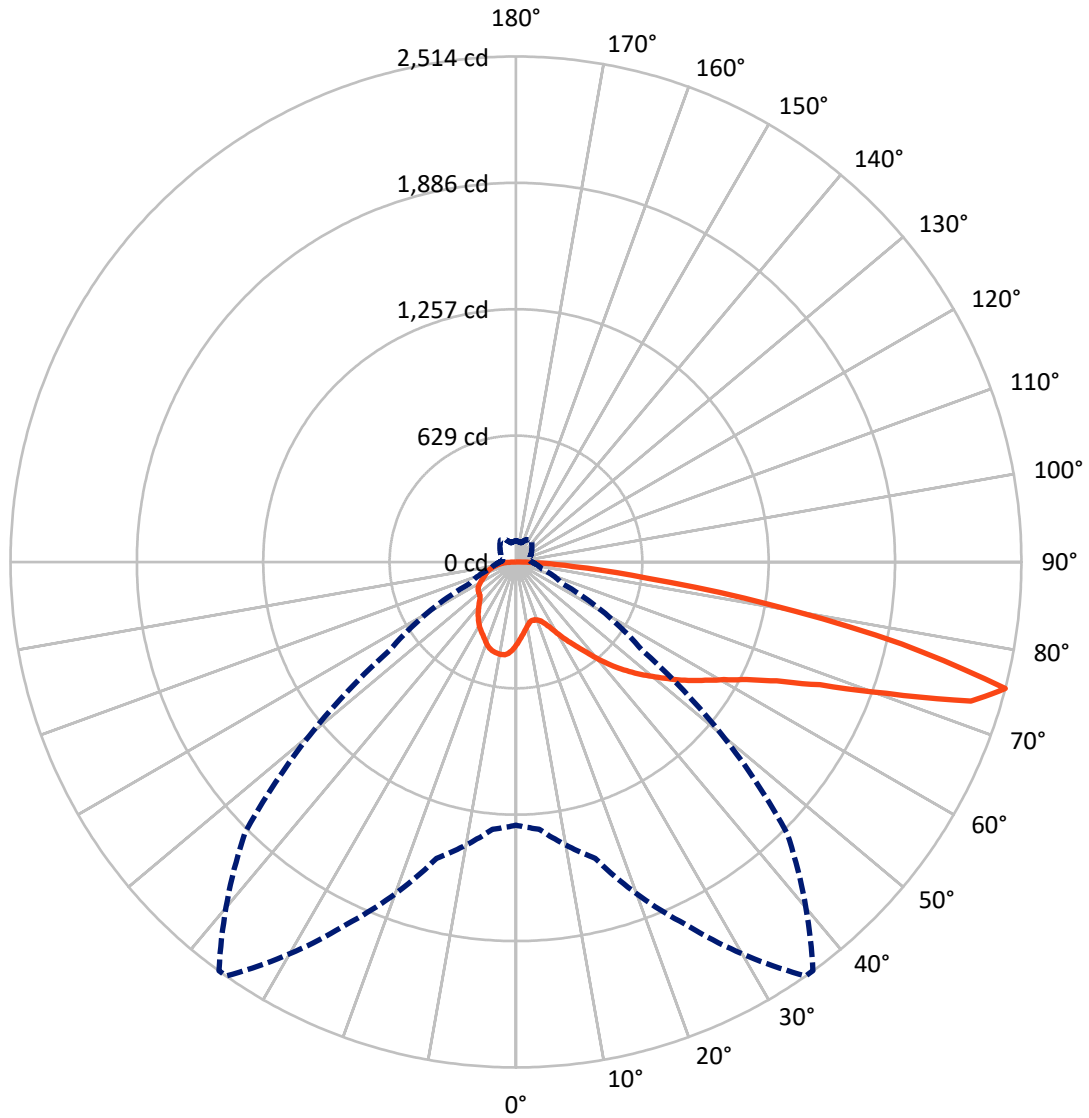
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	734.2	0.0	734.2
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	2350.8	0.0	2350.8
	% Fixture	76.2	0.0	76.2
Total	Lumens	3085.0	0.0	3085.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.9	1.3
10°-20°	112.3	3.6
20°-30°	188.5	6.1
30°-40°	293.0	9.5
40°-50°	434.9	14.1
50°-60°	600.4	19.5
60°-70°	728.4	23.6
70°-80°	602.0	19.5
80°-90°	86.6	2.8
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°	3085.0	100.0
0°-180°	3085.0	100.0

Coefficient of Utilization



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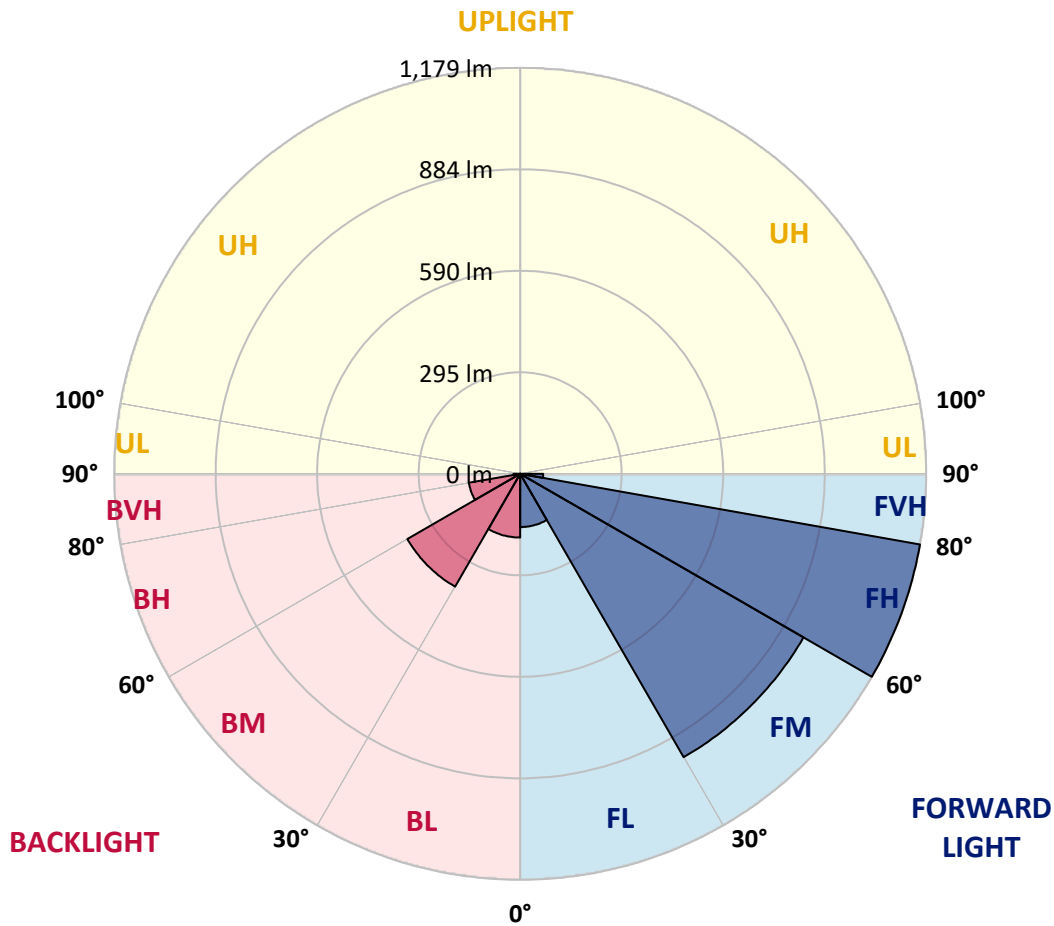
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	154.7	5.0			
FM (30°-60°)	950.0	30.8			
FH (60°-80°)	1179.0	38.2			G1/1800
FVH (80°-90°)	67.1	2.2			G1/100
BL (0°-30°)	185.0	6.0	B1/500		
BM (30°-60°)	378.3	12.3	B1/1000		
BH (60°-80°)	151.4	4.9	B1/500		G1/500
BVH (80°-90°)	19.5	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	411.1	411.1	411.1	411.1	411.1	411.1	411.1	411.1	411.1	411.1
2.5°	379.1	381.4	382.4	381.9	384.4	384.1	387.6	391.9	397.9	403.8
5°	349.9	352.4	354.6	356.6	361.4	362.9	368.4	376.7	387.7	398.9
7.5°	322.7	324.9	328.2	331.9	340.1	341.6	350.7	363.7	379.1	395.4
10°	300.5	302.7	306.2	310.4	320.5	322.4	334.0	351.4	371.4	392.1
12.5°	291.0	291.7	293.7	297.9	306.7	307.9	320.7	340.6	363.9	389.6
15°	290.5	291.9	292.0	294.2	301.5	302.0	313.9	333.5	359.2	389.1
17.5°	295.5	296.5	295.0	296.4	302.5	303.4	312.7	330.2	357.7	391.3
20°	308.9	309.7	305.2	303.4	307.9	308.5	317.7	332.4	359.2	395.8
22.5°	337.2	337.7	326.7	319.2	319.5	319.9	327.9	341.2	365.1	403.9
25°	381.4	381.1	363.6	349.1	340.7	338.9	344.2	355.6	374.9	414.8
27.5°	433.1	430.6	413.1	391.4	373.2	370.6	369.4	374.2	388.9	429.1
30°	491.5	489.1	470.3	442.0	416.8	412.4	401.4	398.9	409.8	448.6
32.5°	555.5	554.0	531.5	497.2	463.5	458.5	439.9	433.3	441.8	478.1
35°	609.2	607.9	589.2	553.9	512.7	506.5	487.6	480.1	484.5	516.0
37.5°	657.8	657.1	641.1	613.2	570.7	563.2	542.0	539.5	538.7	565.9
40°	702.8	701.1	684.4	669.8	638.2	631.4	612.7	610.6	604.2	627.2
42.5°	752.6	748.3	724.1	717.3	708.8	703.1	691.9	692.3	678.3	696.4
45°	793.3	790.8	766.0	762.0	771.2	768.8	778.5	781.0	753.8	769.0
47.5°	837.0	834.7	813.7	810.9	835.7	836.4	870.6	871.4	827.5	844.4
50°	890.9	887.6	866.7	870.2	898.1	900.6	963.1	957.4	895.4	920.9
52.5°	926.4	928.4	923.9	929.6	967.6	970.0	1054.2	1039.7	962.6	996.5
55°	952.6	956.6	970.6	983.6	1041.0	1043.3	1140.1	1117.9	1018.3	1066.5
57.5°	986.3	980.6	1006.8	1032.2	1110.7	1116.9	1223.6	1193.3	1067.7	1126.9
60°	1034.7	1030.7	1051.0	1088.5	1188.8	1198.6	1312.0	1261.1	1103.9	1174.8
62.5°	1132.7	1122.7	1125.9	1159.1	1287.2	1300.2	1411.7	1320.3	1121.9	1193.4
65°	1279.3	1262.1	1246.1	1269.1	1425.7	1438.6	1524.3	1366.9	1115.2	1157.2
67.5°	1463.9	1446.9	1427.2	1448.9	1629.9	1640.1	1663.2	1393.1	1062.7	1017.8
70°	1616.2	1609.9	1633.4	1722.6	1955.9	1956.3	1841.3	1371.4	918.8	721.6
72.5°	1596.0	1592.2	1716.1	1991.9	2366.9	2358.0	2010.0	1207.3	618.9	325.5
75°	1309.3	1334.2	1526.1	1987.1	2514.4	2513.3	1906.7	767.5	256.0	134.9
77.5°	702.1	741.5	990.8	1467.1	1962.9	1992.4	1340.5	268.5	109.9	86.4
80°	229.0	263.3	394.9	747.0	1275.5	1270.0	574.5	105.4	75.2	61.2
82.5°	97.2	101.2	176.4	352.7	654.6	644.4	183.0	60.5	52.9	41.9
85°	38.0	42.5	77.9	163.1	283.5	277.3	66.0	30.0	33.9	27.4
87.5°	12.5	15.2	27.9	55.9	88.2	85.1	16.2	10.3	14.7	12.5
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°
411.1	0°	411.1	411.1	411.1	411.1	411.1	411.1	411.1	411.1	411.1	411.1
412.3	2.5°	414.6	417.3	420.4	425.1	429.1	432.4	435.9	438.1	438.9	441.4
412.9	5°	417.6	423.4	431.3	438.9	446.5	451.0	455.0	457.0	458.8	460.1
414.8	7.5°	422.6	430.1	442.5	452.5	458.8	462.5	465.1	464.5	465.1	465.5
416.8	10°	426.9	437.4	452.1	461.6	466.5	466.6	466.0	463.6	462.5	462.6
419.8	12.5°	432.1	443.8	459.6	467.6	469.0	465.3	462.5	458.5	457.0	456.3
424.3	15°	439.1	452.5	467.8	470.8	467.5	462.8	458.0	451.5	448.1	445.5
431.9	17.5°	447.6	462.3	474.1	472.0	464.8	457.1	449.3	439.4	432.6	429.8
442.5	20°	459.5	472.6	479.0	469.5	458.6	447.0	433.6	421.6	415.3	412.4
455.8	22.5°	473.8	486.5	483.6	465.1	449.8	431.1	414.4	405.6	402.4	400.4
473.0	25°	491.0	501.8	487.0	458.8	435.3	410.1	397.3	394.4	392.9	391.4
494.0	27.5°	513.3	519.2	489.5	449.5	412.6	387.7	383.1	383.6	383.1	380.6
523.2	30°	542.8	541.7	491.8	434.3	386.6	367.6	367.9	370.1	370.4	368.7
563.9	32.5°	581.7	569.9	493.0	414.6	361.7	349.9	350.2	352.6	354.2	351.4
617.1	35°	628.7	602.7	491.1	389.9	342.6	333.0	330.5	331.2	331.7	329.0
681.6	37.5°	683.6	639.6	483.0	362.6	326.7	316.5	311.2	306.7	304.0	301.5
754.7	40°	743.8	679.8	468.0	335.9	309.0	299.0	291.0	282.5	273.5	270.2
832.0	42.5°	806.9	721.1	449.8	310.4	288.7	280.5	272.0	259.7	246.2	239.3
912.4	45°	872.2	763.5	431.9	285.2	267.8	264.3	254.5	239.7	225.0	216.3
993.0	47.5°	936.3	803.5	405.8	259.8	248.3	252.2	244.5	230.8	214.5	200.8
1072.9	50°	997.5	841.0	362.9	234.2	232.5	248.5	241.2	221.5	202.8	185.3
1151.2	52.5°	1058.2	871.4	308.0	210.8	224.0	247.5	236.8	215.1	192.3	173.9
1225.0	55°	1109.7	887.1	255.2	190.8	211.6	239.0	231.6	207.6	177.4	157.9
1275.5	57.5°	1139.1	874.4	211.1	171.1	194.6	225.0	222.8	191.6	159.8	144.8
1285.3	60°	1126.4	823.0	175.1	153.9	178.4	209.8	207.5	175.8	146.3	132.1
1232.6	62.5°	1056.5	725.1	146.6	138.9	163.8	194.3	192.1	163.6	135.9	122.2
1092.7	65°	915.8	589.9	124.4	126.4	148.9	175.6	178.8	153.4	127.7	114.4
845.4	67.5°	698.4	427.3	107.1	115.6	134.4	157.3	166.4	146.1	120.9	108.2
489.1	70°	398.1	242.7	92.4	105.1	121.6	140.3	156.9	140.3	113.6	103.1
183.3	72.5°	150.9	111.4	79.9	94.6	109.2	125.9	146.4	131.1	105.1	97.2
94.7	75°	80.6	67.9	67.2	82.2	95.1	111.9	133.3	122.1	98.7	102.7
65.5	77.5°	54.9	48.0	56.2	70.4	79.6	96.4	119.2	108.4	85.6	85.2
45.4	80°	38.0	34.0	45.7	56.7	61.5	81.1	104.1	93.1	69.7	65.0
28.0	82.5°	22.8	22.2	34.2	42.4	43.5	62.5	86.2	78.1	57.0	49.7
16.7	85°	12.5	13.2	21.8	24.8	25.3	43.7	67.5	60.4	43.9	36.9
6.0	87.5°	3.5	4.5	8.0	9.8	12.2	22.7	40.2	35.9	22.0	15.3
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>
411.1
441.3
460.5
466.0
463.0
456.0
446.3
429.9
412.1
400.8
391.4
381.1
369.6
352.7
330.9
303.2
271.7
240.2
215.6
199.3
183.8
171.9
156.3
142.8
130.1
120.1
112.2
106.2
101.7
95.9
<i>106.1</i>
78.6
62.2
50.0
37.2
15.3
0.0

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