

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: P945186

Luminaire Tested: **GALN-SB1A-950-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945186  
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-950-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 5000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3115 lumens  
Efficiency: N/A  
Efficacy: 100.8 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

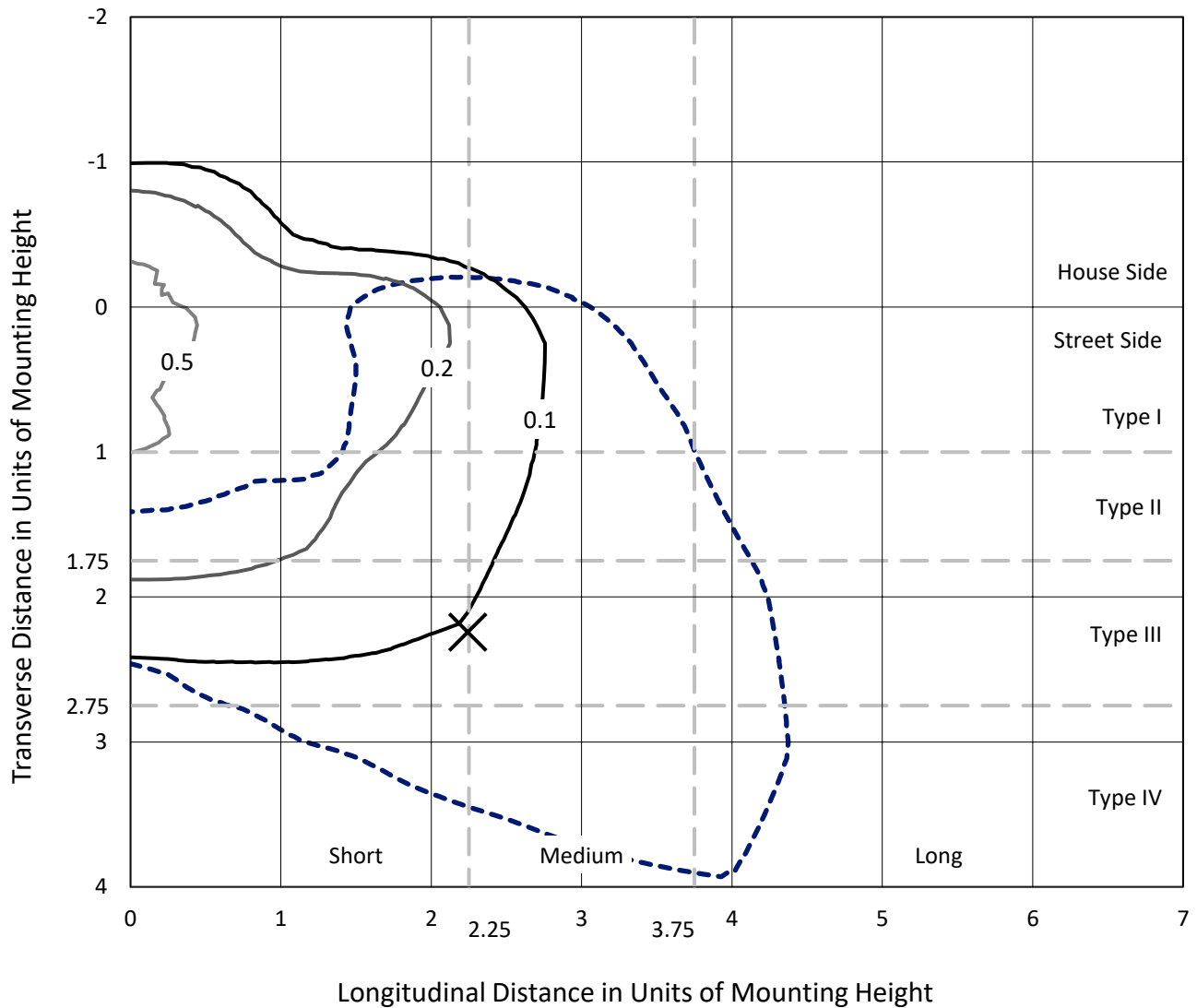
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

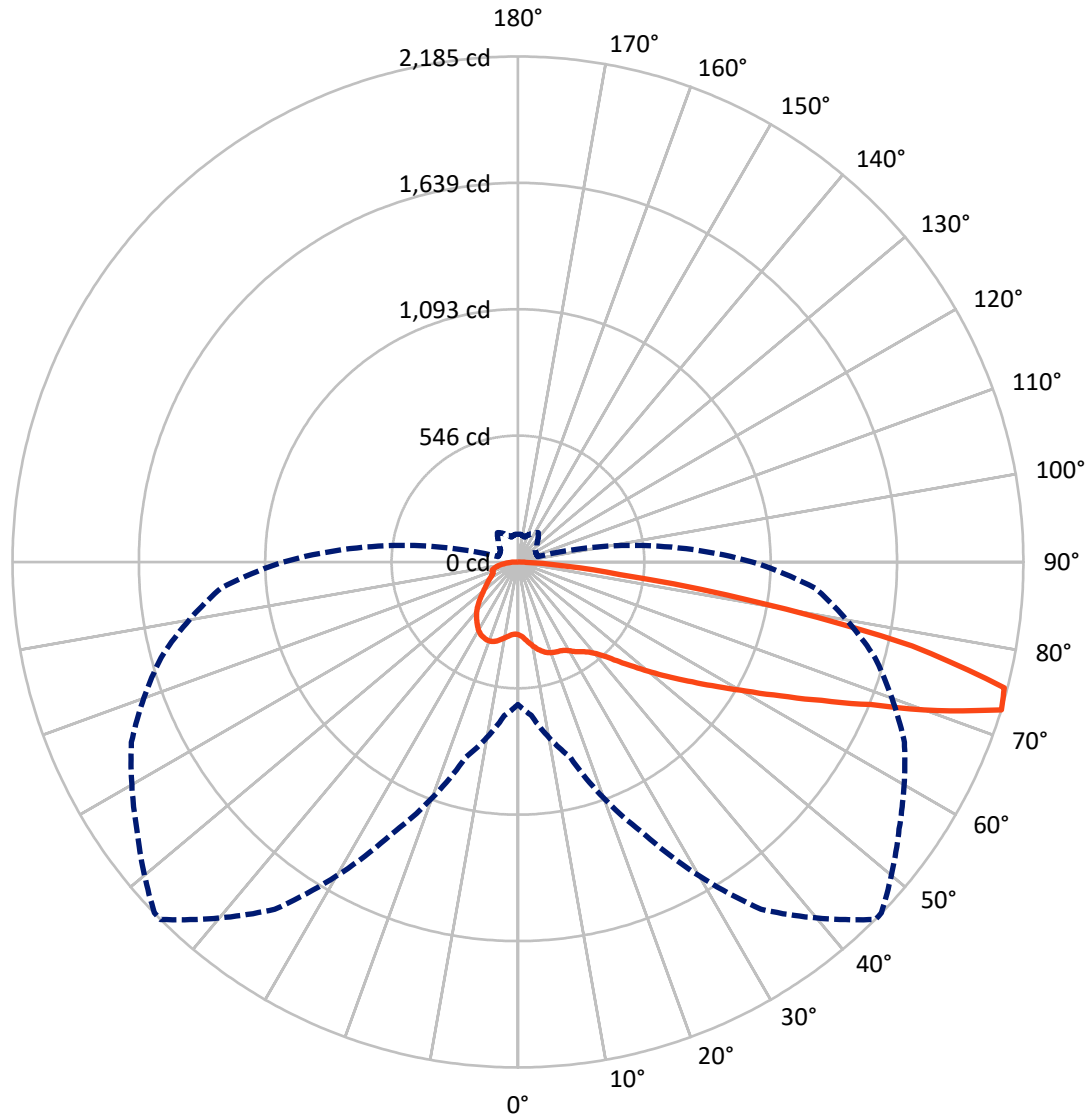
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 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
<b>House Side</b>	Lumens	704.2	0.0	704.2
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	2410.8	0.0	2410.8
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	3115.0	0.0	3115.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	32.0	1.0
10°-20°	106.6	3.4
20°-30°	185.5	6.0
30°-40°	265.9	8.5
40°-50°	374.4	12.0
50°-60°	573.5	18.4
60°-70°	830.9	26.7
70°-80°	663.5	21.3
80°-90°	82.6	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°	3115.0	100.0
0°-180°	3115.0	100.0

**Coefficient of Utilization**

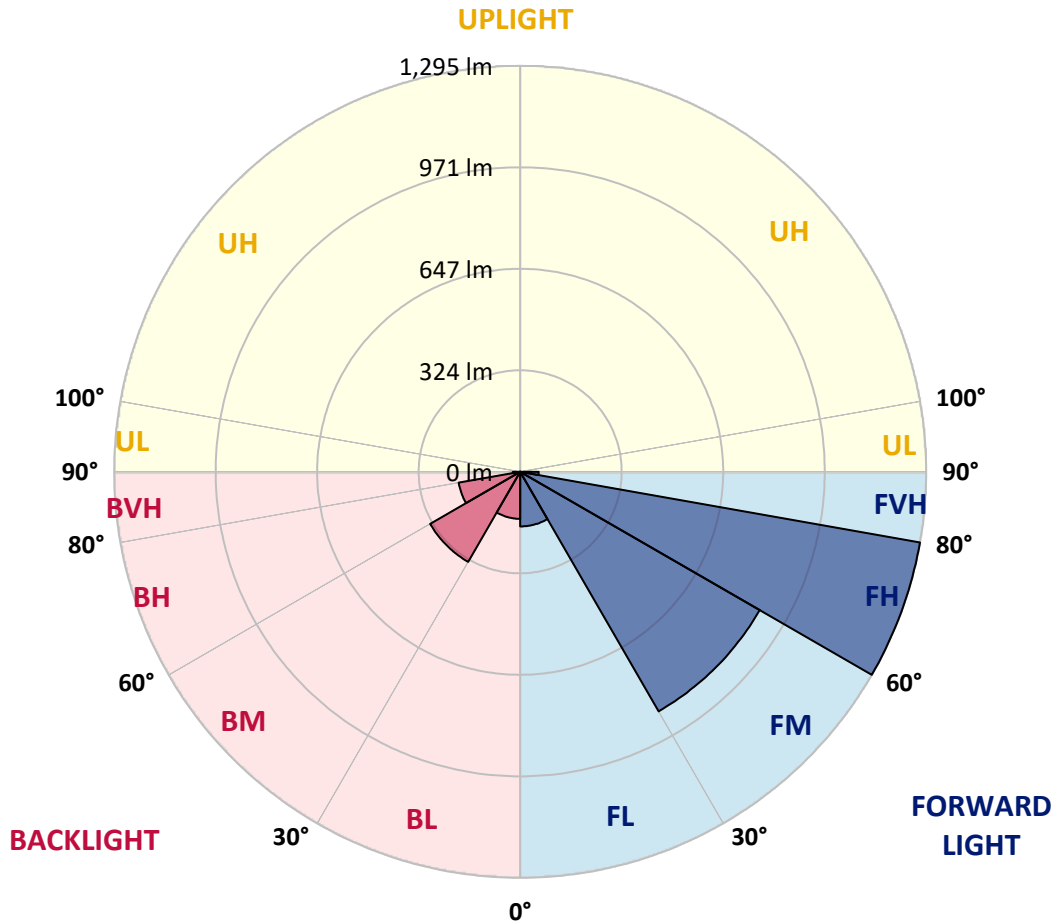


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	174.2	5.6			
FM (30°-60°)	882.3	28.3			
FH (60°-80°)	1295.0	41.6			G1/1800
FVH (80°-90°)	59.3	1.9			G1/100
BL (0°-30°)	149.9	4.8	B1/500		
BM (30°-60°)	331.6	10.6	B1/1000		
BH (60°-80°)	199.3	6.4	B1/500		G1/500
BVH (80°-90°)	23.4	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-G1**  
 Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	314.2	314.2	314.2	314.2	314.2	314.2	314.2	314.2	314.2	314.2
2.5°	326.6	328.7	326.7	324.9	324.1	322.0	321.8	320.5	319.7	317.4
5°	349.4	352.1	348.9	345.3	342.0	336.7	336.1	332.3	328.0	323.1
7.5°	375.1	377.6	373.8	368.4	362.7	354.0	353.8	346.9	340.2	331.8
10°	397.6	400.9	395.8	388.4	381.2	371.3	370.2	362.3	353.8	343.0
12.5°	417.5	419.8	414.8	405.8	397.4	387.6	386.1	377.4	367.9	355.6
15°	433.2	436.2	429.6	419.9	411.1	401.4	400.1	392.2	382.7	369.7
17.5°	443.6	446.0	439.3	428.5	419.9	411.9	410.9	404.3	396.0	382.8
20°	447.5	450.1	443.1	432.1	424.2	418.0	417.5	412.7	407.0	395.0
22.5°	451.4	453.9	444.7	433.2	426.3	422.4	422.2	419.1	416.8	407.0
25°	467.3	468.0	455.7	439.1	429.3	425.8	425.7	425.5	426.5	418.8
27.5°	481.1	481.0	470.5	454.9	439.6	432.4	432.2	433.9	437.0	430.6
30°	501.3	499.5	487.0	470.8	456.8	445.7	444.7	443.2	445.7	440.6
32.5°	544.1	538.4	518.2	489.3	471.1	462.6	461.3	452.1	453.1	449.9
35°	605.5	598.0	571.1	524.4	488.8	476.7	476.0	464.4	462.4	459.6
37.5°	678.5	669.2	637.8	575.3	519.4	493.1	492.1	481.6	473.6	470.6
40°	751.9	740.1	714.1	637.3	564.3	520.5	517.4	501.5	492.3	487.4
42.5°	823.1	813.3	791.1	706.9	619.8	560.6	553.7	526.4	519.5	514.9
45°	886.1	877.3	861.0	781.3	684.8	615.0	608.3	563.8	561.7	561.7
47.5°	937.3	935.3	918.1	857.1	761.4	677.1	665.4	615.9	621.6	630.5
50°	994.1	988.7	970.3	931.7	851.5	748.1	738.6	679.7	701.2	725.5
52.5°	1046.3	1049.2	1028.7	1009.5	953.2	827.4	810.6	755.0	801.4	841.6
55°	1099.9	1100.1	1094.4	1091.7	1059.9	915.0	896.6	845.6	919.4	969.3
57.5°	1150.3	1150.6	1159.2	1182.3	1183.6	1016.1	995.2	956.8	1050.5	1101.4
60°	1195.3	1197.6	1220.9	1275.0	1292.4	1131.9	1112.2	1088.3	1186.1	1237.3
62.5°	1210.4	1218.7	1270.6	1347.6	1399.9	1274.0	1254.7	1240.4	1328.5	1376.1
65°	1184.8	1204.0	1304.2	1407.4	1510.5	1442.9	1423.7	1408.1	1476.5	1521.3
67.5°	1121.9	1146.7	1302.3	1470.3	1644.7	1646.0	1628.2	1591.6	1635.2	1652.4
70°	956.3	993.4	1187.6	1493.8	1798.8	1923.9	1906.6	1812.4	1793.6	1710.2
72.5°	616.2	666.1	874.5	1300.6	1833.1	2185.3	2184.3	2011.8	1843.6	1598.0
75°	224.8	255.3	406.3	816.4	1538.7	2172.0	2178.4	1977.7	1683.0	1234.3
77.5°	81.9	89.6	132.6	313.8	946.3	1742.7	1756.0	1581.1	1197.9	619.5
80°	43.0	47.3	67.9	121.8	405.5	1035.0	1055.8	939.6	563.0	186.6
82.5°	23.8	25.8	38.1	66.1	182.6	442.6	455.0	371.2	198.1	79.1
85°	12.8	13.6	17.9	36.1	89.3	153.4	156.9	110.9	78.9	46.4
87.5°	3.8	4.6	5.9	11.5	35.0	34.5	35.3	22.0	31.2	23.5
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°
314.2	0°	314.2	314.2	314.2	314.2	314.2	314.2	314.2	314.2	314.2	314.2
316.7	2.5°	315.7	315.2	313.4	312.6	311.6	311.5	312.3	312.4	312.6	312.8
320.3	5°	318.7	317.0	315.4	314.4	314.7	314.9	316.5	317.7	318.5	319.2
327.0	7.5°	324.4	323.1	320.3	320.2	320.6	322.1	324.3	326.9	328.4	329.5
335.7	10°	332.9	330.5	327.2	327.7	328.7	330.8	335.2	337.4	339.8	342.0
346.4	12.5°	341.6	339.5	335.7	336.1	337.7	341.5	345.7	348.4	350.0	351.7
357.9	15°	353.0	349.2	345.1	345.1	348.0	352.1	354.1	356.3	357.2	359.0
370.2	17.5°	364.6	359.7	354.3	354.0	357.6	359.5	360.7	361.0	361.3	363.3
382.2	20°	376.3	370.9	363.1	362.5	363.3	363.0	362.8	362.5	363.0	365.4
394.5	22.5°	387.8	381.5	370.9	367.9	365.6	362.5	362.3	362.2	362.5	364.9
407.8	25°	401.2	393.7	379.4	370.5	362.8	358.5	359.0	359.2	359.5	361.5
421.6	27.5°	415.8	407.4	387.3	369.7	355.8	352.8	352.0	352.5	353.6	356.7
435.3	30°	430.4	420.6	394.5	366.4	346.9	342.8	340.2	341.3	344.9	348.0
447.3	32.5°	443.7	433.9	400.2	359.2	335.6	329.2	325.7	327.2	330.8	332.0
460.6	35°	459.3	448.1	402.7	347.7	323.3	313.4	308.8	306.7	308.5	307.4
476.2	37.5°	476.7	465.0	402.4	332.6	308.8	297.5	291.1	283.1	279.3	275.4
499.2	40°	502.5	485.7	398.4	314.4	290.9	280.6	269.1	255.5	247.0	239.3
536.3	42.5°	537.6	514.4	391.2	294.4	270.8	261.1	245.5	229.6	216.1	203.3
592.5	45°	589.9	552.0	382.2	273.1	248.9	239.4	222.5	204.6	189.4	173.0
672.5	47.5°	665.4	602.6	373.6	248.8	226.0	217.3	202.0	185.4	167.4	151.5
788.0	50°	769.1	675.1	365.8	225.1	203.3	196.8	184.6	167.7	149.5	136.7
923.4	52.5°	901.0	773.7	362.5	202.3	182.1	179.7	170.0	154.2	137.0	126.2
1081.2	55°	1052.5	891.7	362.5	180.5	163.6	164.4	157.7	143.1	128.2	118.5
1244.0	57.5°	1207.1	1011.2	355.9	160.3	147.9	151.3	147.0	134.2	120.8	110.8
1415.2	60°	1349.5	1111.3	329.3	141.9	133.9	139.3	136.5	125.5	109.1	100.8
1558.3	62.5°	1459.0	1167.7	278.1	127.3	122.4	128.7	127.2	114.0	107.0	103.5
1675.7	65°	1513.8	1158.5	212.7	114.4	112.7	122.4	119.3	118.8	113.2	109.3
1714.0	67.5°	1480.1	1079.4	154.2	104.9	107.2	116.7	128.7	130.6	120.3	112.6
1606.3	70°	1332.6	936.3	114.9	95.8	100.1	116.8	146.7	136.7	118.0	109.0
1288.3	72.5°	1013.8	698.2	89.1	86.3	90.9	117.7	154.7	133.9	111.4	120.4
802.6	75°	579.7	383.3	71.5	74.7	79.4	109.9	150.6	126.7	106.3	110.6
318.0	77.5°	221.0	147.4	59.1	63.2	63.8	96.0	144.1	126.2	101.2	98.8
95.3	80°	76.6	57.6	48.9	50.2	49.4	85.3	138.2	109.8	82.9	74.2
39.4	82.5°	31.3	28.7	38.7	37.1	35.1	66.3	111.6	89.8	67.8	59.9
19.0	85°	13.6	18.2	25.6	22.5	20.3	45.9	89.4	76.0	57.3	49.4
6.2	87.5°	2.8	6.9	10.8	10.2	10.5	30.7	63.5	54.0	40.5	30.4
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>
314.2
313.4
319.5
329.8
341.5
352.3
359.7
364.0
366.4
366.6
364.1
359.9
351.5
336.1
311.0
277.8
239.7
202.2
171.0
149.7
135.9
125.4
117.5
109.1
99.4
102.4
108.0
111.3
107.5
119.5
110.6
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71.7
59.2
49.2
23.8
0.0

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