

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: P945160

Luminaire Tested: **GALN-SB1A-940-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945160
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-940-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2485 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

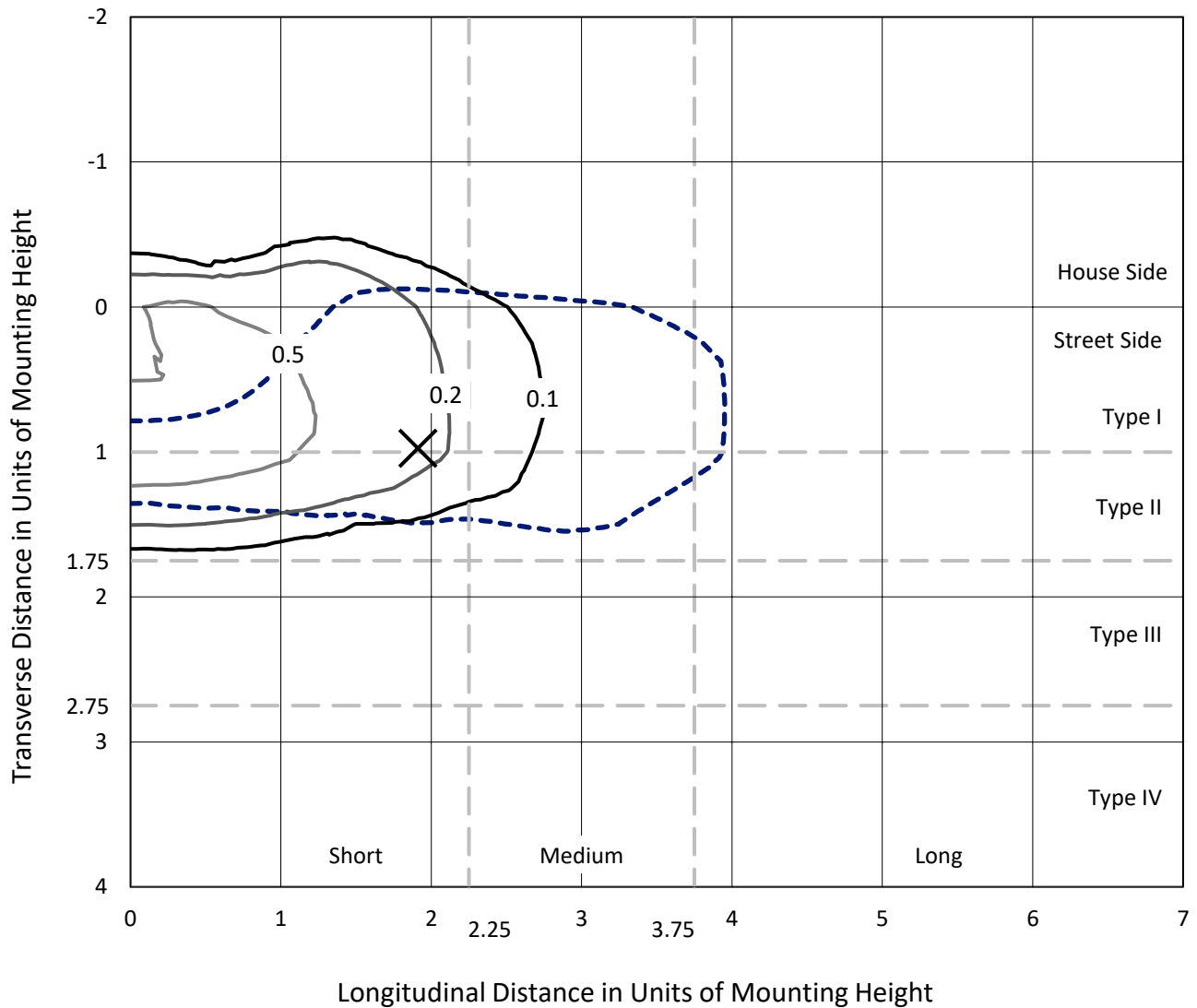
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

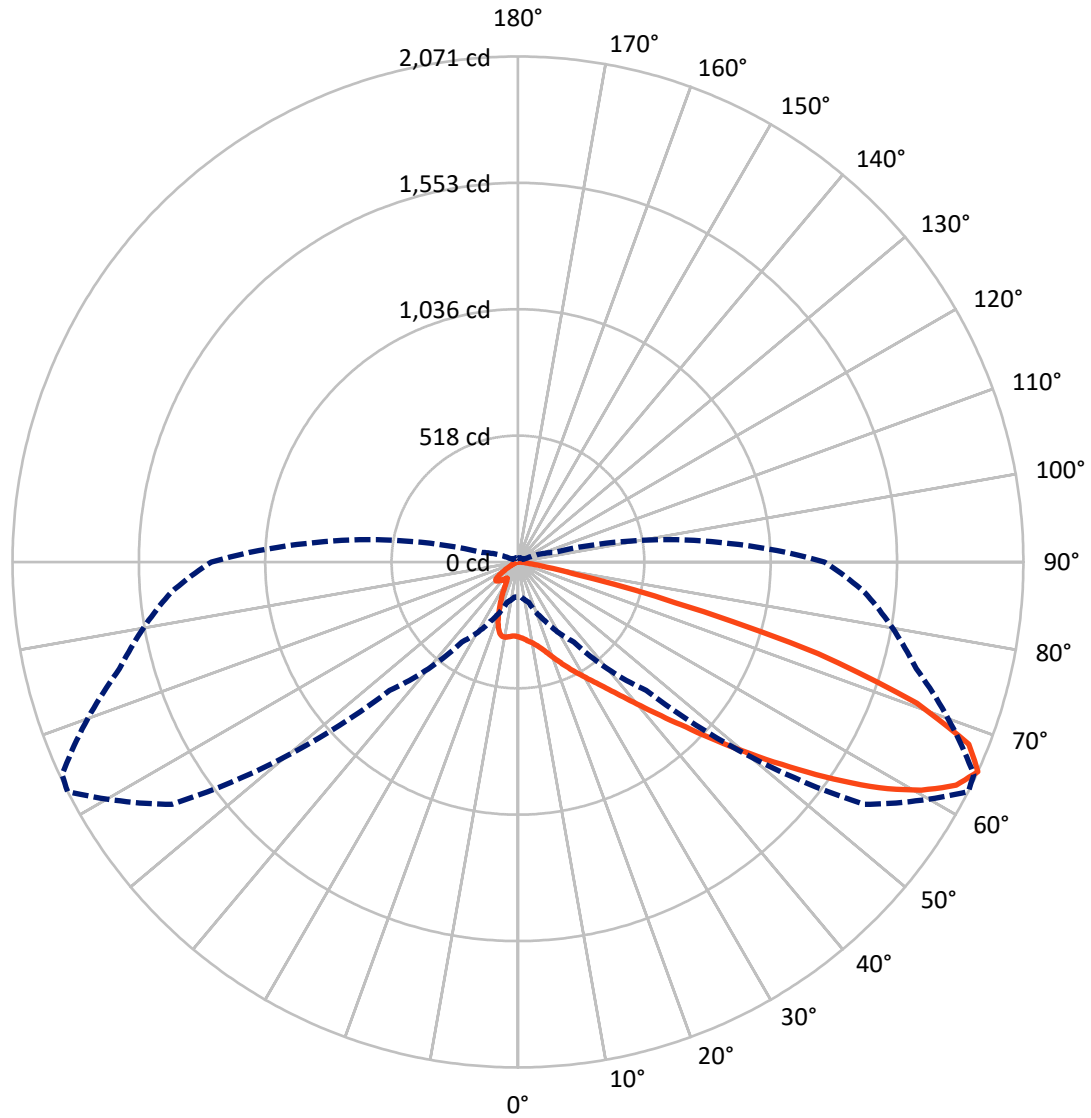
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	365.3	0.0	365.3
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	2119.7	0.0	2119.7
	% Fixture	85.3	0.0	85.3
Total	Lumens	2485.0	0.0	2485.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.9	1.2
10°-20°	80.2	3.2
20°-30°	139.6	5.6
30°-40°	251.6	10.1
40°-50°	499.1	20.1
50°-60°	679.8	27.4
60°-70°	542.6	21.8
70°-80°	245.5	9.9
80°-90°	17.6	0.7
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°	2485.0	100.0
0°-180°	2485.0	100.0

Coefficient of Utilization



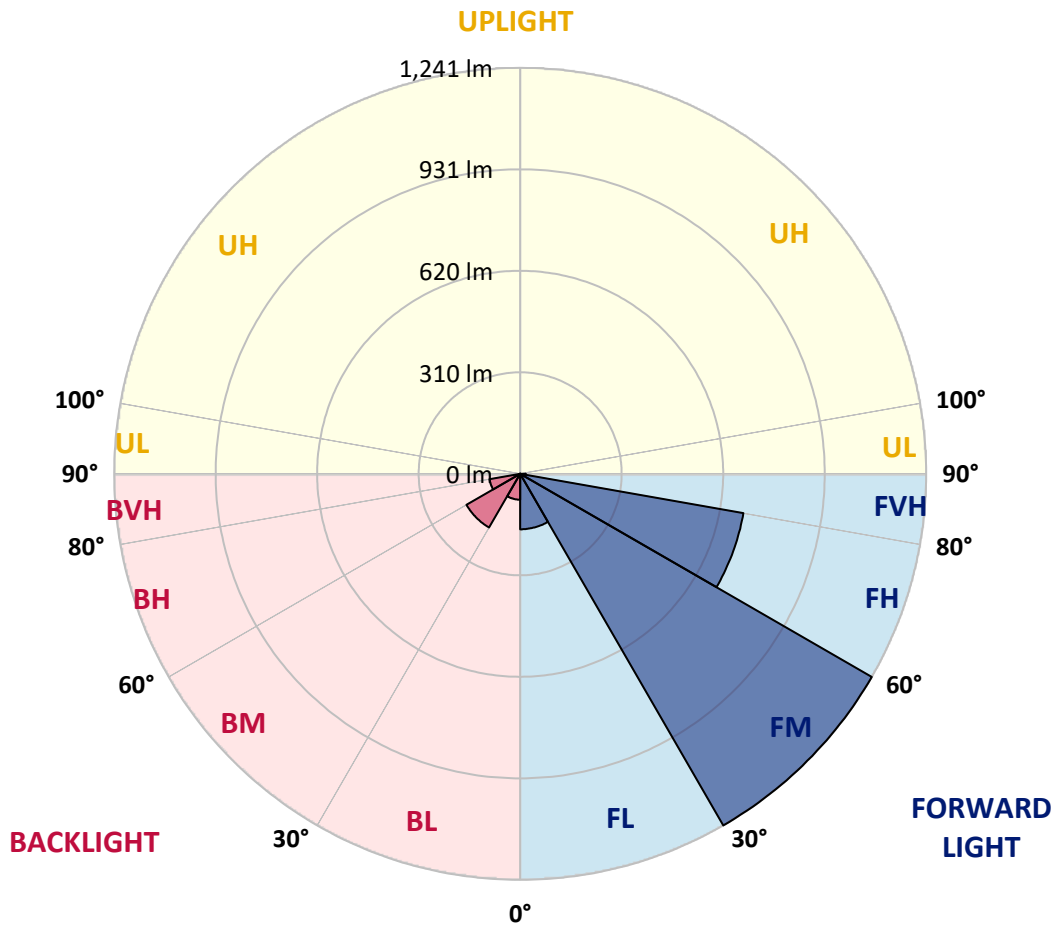
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	169.6	6.8			
FM (30°-60°)	1240.9	49.9			
FH (60°-80°)	692.8	27.9			G1/1800
FVH (80°-90°)	16.3	0.7			G1/100
BL (0°-30°)	79.1	3.2	B0/110		
BM (30°-60°)	189.6	7.6	B0/220		
BH (60°-80°)	95.4	3.8	B0/110		G0/110
BVH (80°-90°)	1.3	0.1			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	306.7	306.7	306.7	306.7	306.7	306.7	306.7	306.7	306.7	306.7
2.5°	313.9	313.0	314.2	313.7	313.4	312.7	312.3	312.0	311.3	310.8
5°	314.7	314.2	315.4	316.4	317.5	318.5	319.0	319.7	319.0	317.6
7.5°	307.6	307.2	309.8	312.9	317.5	321.4	325.7	328.1	328.2	327.7
10°	307.0	306.2	308.7	312.5	318.5	325.5	333.0	338.2	338.8	341.1
12.5°	315.1	314.2	317.8	321.9	328.1	335.4	344.6	351.8	352.9	355.9
15°	328.6	327.4	331.5	336.8	344.6	353.0	362.8	369.3	370.1	373.9
17.5°	344.3	343.1	347.9	353.5	362.1	373.5	384.8	392.0	393.0	395.4
20°	364.5	362.9	366.7	371.8	380.9	394.6	408.1	418.3	418.2	418.2
22.5°	387.9	385.5	388.8	392.9	401.4	418.0	435.9	448.1	448.1	443.3
25°	413.0	410.6	414.2	418.0	425.5	444.3	465.3	480.4	481.1	472.9
27.5°	444.5	441.4	444.1	448.6	453.0	472.2	497.1	514.6	514.9	502.3
30°	505.0	496.3	487.7	483.0	485.0	504.0	530.6	550.0	551.7	534.2
32.5°	615.8	614.1	584.0	544.7	524.2	538.2	568.1	591.3	592.4	570.0
35°	787.9	785.9	737.5	662.6	595.8	584.0	613.6	641.1	640.4	615.1
37.5°	993.4	991.5	927.8	827.6	719.4	653.2	672.2	701.1	705.4	672.2
40°	1169.0	1162.0	1121.6	1025.1	883.5	768.1	755.6	774.8	779.2	739.9
42.5°	1302.0	1296.0	1275.5	1215.2	1082.2	938.0	853.9	861.3	866.2	819.1
45°	1370.9	1369.5	1377.7	1372.1	1284.6	1146.6	994.5	963.9	965.7	906.8
47.5°	1380.6	1380.0	1417.4	1470.4	1458.6	1381.8	1174.8	1091.7	1085.1	1005.7
50°	1323.2	1321.8	1393.6	1493.0	1574.9	1579.5	1379.6	1235.8	1221.1	1108.1
52.5°	1139.8	1139.4	1257.4	1422.7	1615.7	1752.5	1582.0	1394.2	1369.5	1216.5
55°	877.0	883.3	1018.6	1214.0	1541.2	1835.7	1763.8	1569.9	1532.1	1325.6
57.5°	621.3	630.5	764.2	938.2	1310.0	1786.5	1886.7	1746.0	1705.3	1434.3
60°	333.7	341.9	475.8	683.5	974.6	1602.9	1951.5	1898.8	1860.3	1537.6
62.5°	198.8	201.6	256.9	441.2	659.2	1224.6	1923.9	2015.2	1983.6	1624.3
65°	142.7	143.3	171.1	269.4	400.2	744.0	1730.9	2071.0	2061.2	1689.6
67.5°	120.2	119.8	131.5	179.0	272.7	372.7	1326.6	1992.2	2033.5	1730.9
70°	103.1	103.6	117.3	131.1	205.0	211.0	659.6	1734.5	1822.7	1741.9
72.5°	76.8	78.5	91.1	119.5	154.7	145.1	227.7	1286.1	1445.6	1641.2
75°	54.2	55.0	64.1	100.5	115.4	105.7	116.3	664.8	869.3	1258.2
77.5°	41.7	43.3	48.6	70.3	113.7	74.2	71.1	230.1	353.5	760.1
80°	22.6	25.3	35.0	50.8	79.8	52.5	35.2	91.6	119.8	355.4
82.5°	11.6	13.0	24.4	36.6	45.5	45.8	17.4	38.1	49.4	109.8
85°	4.6	5.6	16.4	20.2	23.4	22.6	7.9	15.4	17.8	30.4
87.5°	1.0	1.7	6.0	4.6	4.4	4.8	1.9	3.6	3.4	3.6
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°
306.7	0°	306.7	306.7	306.7	306.7	306.7	306.7	306.7	306.7	306.7	306.7
308.7	2.5°	308.6	307.9	306.0	304.0	301.6	300.2	299.3	299.2	298.0	297.1
315.6	5°	313.7	313.0	309.4	305.2	300.5	297.0	293.5	290.5	286.0	285.2
325.5	7.5°	324.0	322.1	316.3	310.5	301.7	291.3	278.7	264.1	251.1	247.2
338.7	10°	336.6	334.0	326.7	316.4	297.1	268.7	238.1	209.8	187.2	180.9
354.2	12.5°	351.0	348.8	339.0	320.0	277.8	226.3	179.5	144.3	122.4	116.9
370.8	15°	368.1	364.8	351.3	314.6	243.3	172.0	123.3	102.4	94.5	93.5
389.8	17.5°	386.2	380.9	362.3	294.9	196.8	122.2	95.2	89.2	85.8	84.8
408.9	20°	402.8	395.9	368.8	265.2	147.0	95.2	85.3	81.4	78.3	77.1
428.1	22.5°	419.4	409.6	368.8	224.6	110.3	84.5	78.3	74.7	71.1	69.6
448.6	25°	436.6	423.6	362.3	179.5	88.7	77.4	71.6	67.7	64.6	62.7
468.1	27.5°	453.4	435.4	347.4	136.8	79.0	71.3	65.5	61.7	58.8	57.4
489.3	30°	469.3	447.1	326.5	103.8	72.7	65.3	59.8	56.6	53.7	52.3
516.8	32.5°	490.8	461.8	304.3	85.1	67.2	59.7	54.7	51.6	49.1	48.0
552.5	35°	520.7	483.5	285.2	83.6	62.6	55.0	50.1	47.2	44.6	43.8
598.7	37.5°	563.1	518.5	275.1	93.9	58.8	50.9	46.3	43.3	40.9	40.2
657.3	40°	615.4	566.0	280.5	104.1	56.2	47.4	42.9	39.8	37.8	36.9
724.7	42.5°	677.5	624.7	310.8	112.0	54.5	44.3	39.7	36.2	34.9	34.5
801.1	45°	748.8	689.1	357.1	120.4	51.8	41.4	36.4	33.8	32.8	32.7
884.2	47.5°	829.8	759.9	410.8	130.8	49.1	38.6	33.8	32.1	31.3	30.9
970.9	50°	910.2	831.2	466.0	136.6	46.8	36.1	31.8	30.4	29.7	29.6
1062.5	52.5°	994.3	904.5	510.6	131.1	45.0	34.0	30.1	29.1	28.4	28.2
1146.9	55°	1074.5	963.9	518.3	111.3	41.2	32.0	28.2	27.7	26.8	26.8
1232.6	57.5°	1143.5	993.6	464.0	81.7	37.4	28.9	26.3	25.8	25.1	25.0
1309.9	60°	1207.0	985.1	358.2	55.0	33.3	25.8	23.9	23.6	22.9	22.1
1377.1	62.5°	1242.7	947.4	245.0	35.9	29.2	22.6	21.2	21.0	19.5	17.8
1426.8	65°	1256.2	870.2	152.8	26.2	24.4	19.3	18.3	18.0	15.7	13.8
1455.0	67.5°	1244.4	743.0	77.1	20.7	19.3	16.1	15.0	15.0	13.5	11.8
1453.3	70°	1197.2	557.0	32.5	16.6	14.9	12.3	12.3	13.0	11.5	9.6
1377.9	72.5°	1094.8	374.7	17.3	12.7	11.1	8.7	10.1	10.6	9.1	7.2
1127.8	75°	870.3	228.6	12.0	9.4	7.0	6.2	7.7	8.0	6.2	4.8
773.2	77.5°	595.3	131.3	8.0	6.0	4.4	3.6	5.3	5.0	3.2	2.2
298.1	80°	261.4	54.7	4.6	2.7	1.7	1.4	1.9	1.4	1.0	0.7
40.9	82.5°	30.6	12.8	1.7	1.0	0.7	0.3	0.2	0.0	0.0	0.0
12.5	85°	6.3	1.5	0.9	0.3	0.2	0.0	0.0	0.0	0.0	0.0
2.2	87.5°	1.2	0.3	0.2	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>
306.7
298.0
284.8
245.3
178.5
115.4
92.5
84.3
76.4
68.7
62.1
57.4
52.5
48.0
43.8
40.0
36.8
34.5
32.5
30.9
29.6
28.2
26.7
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