

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: P938791

Luminaire Tested: **GALN-SB1A-830-U-SL4-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938791
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-830-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2815 lumens
Efficiency: N/A
Efficacy: 91.1 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

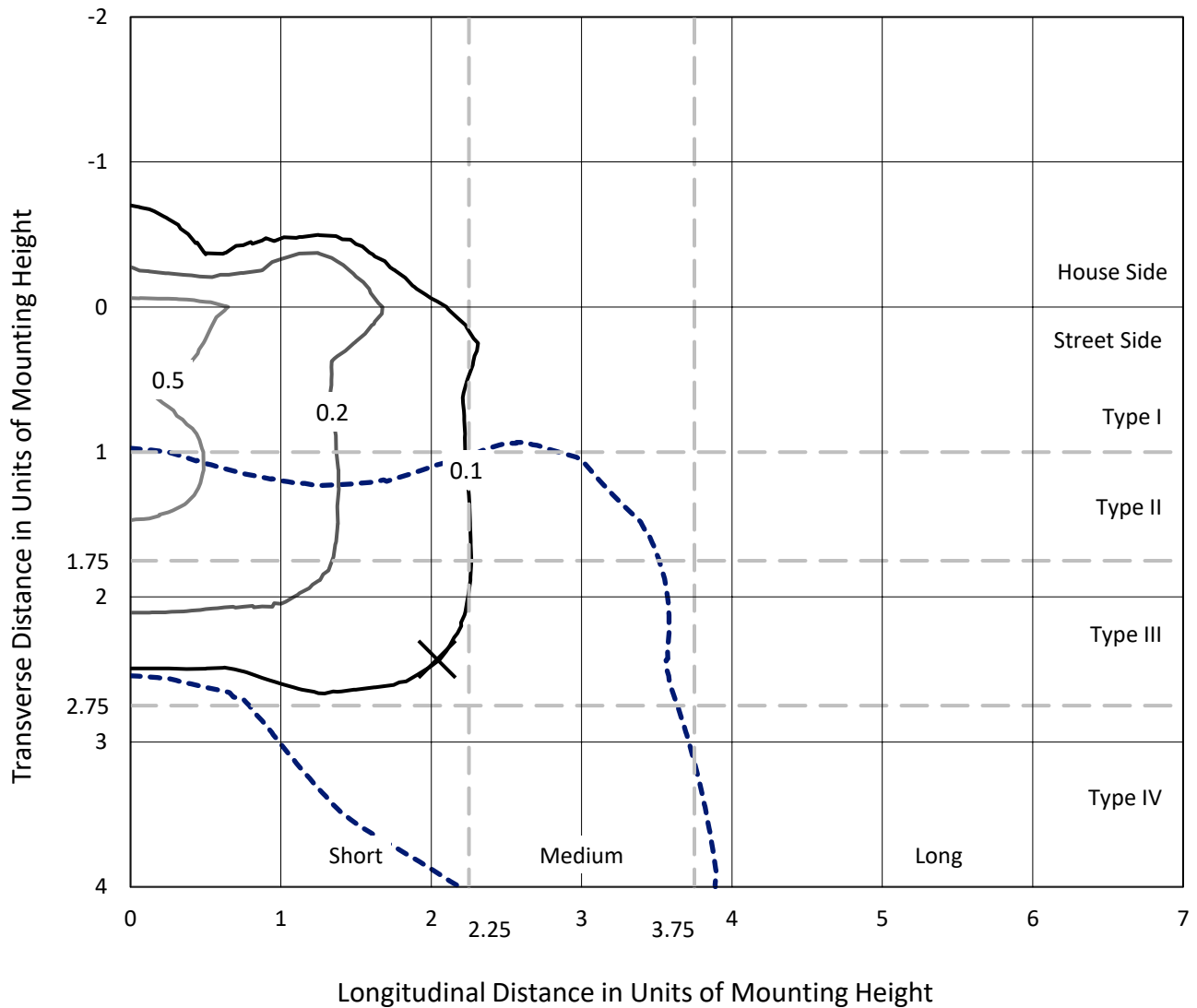
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

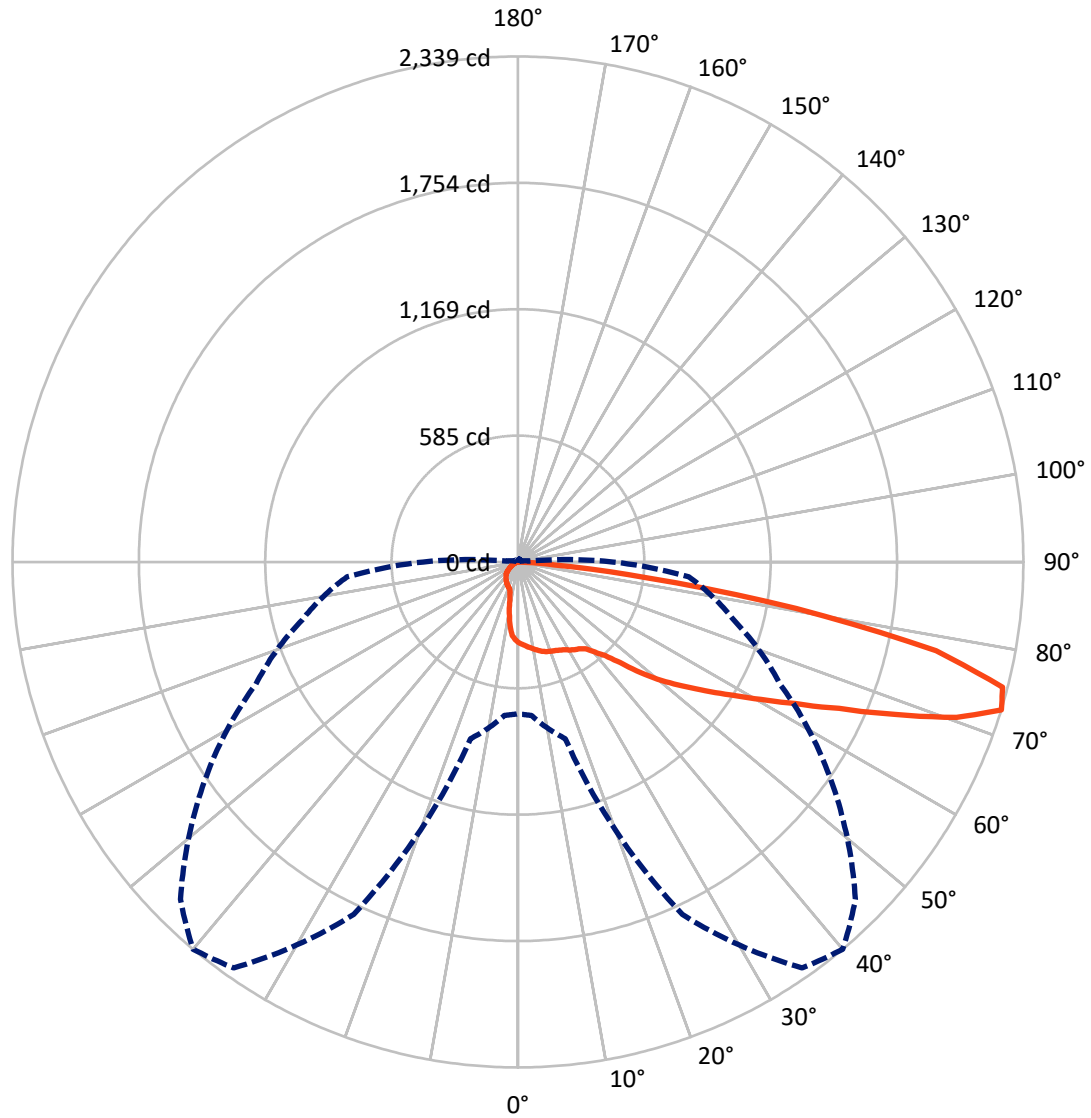
× Max cd
 - - - 1/2 Max cd



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 40-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	363.5	0.0	363.5
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	2451.5	0.0	2451.5
	% Fixture	87.1	0.0	87.1
Total	Lumens	2815.0	0.0	2815.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.0	1.2
10°-20°	92.4	3.3
20°-30°	149.6	5.3
30°-40°	220.8	7.8
40°-50°	371.7	13.2
50°-60°	577.1	20.5
60°-70°	722.1	25.7
70°-80°	591.2	21.0
80°-90°	56.1	2.0
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°	2815.0	100.0
0°-180°	2815.0	100.0

Coefficient of Utilization



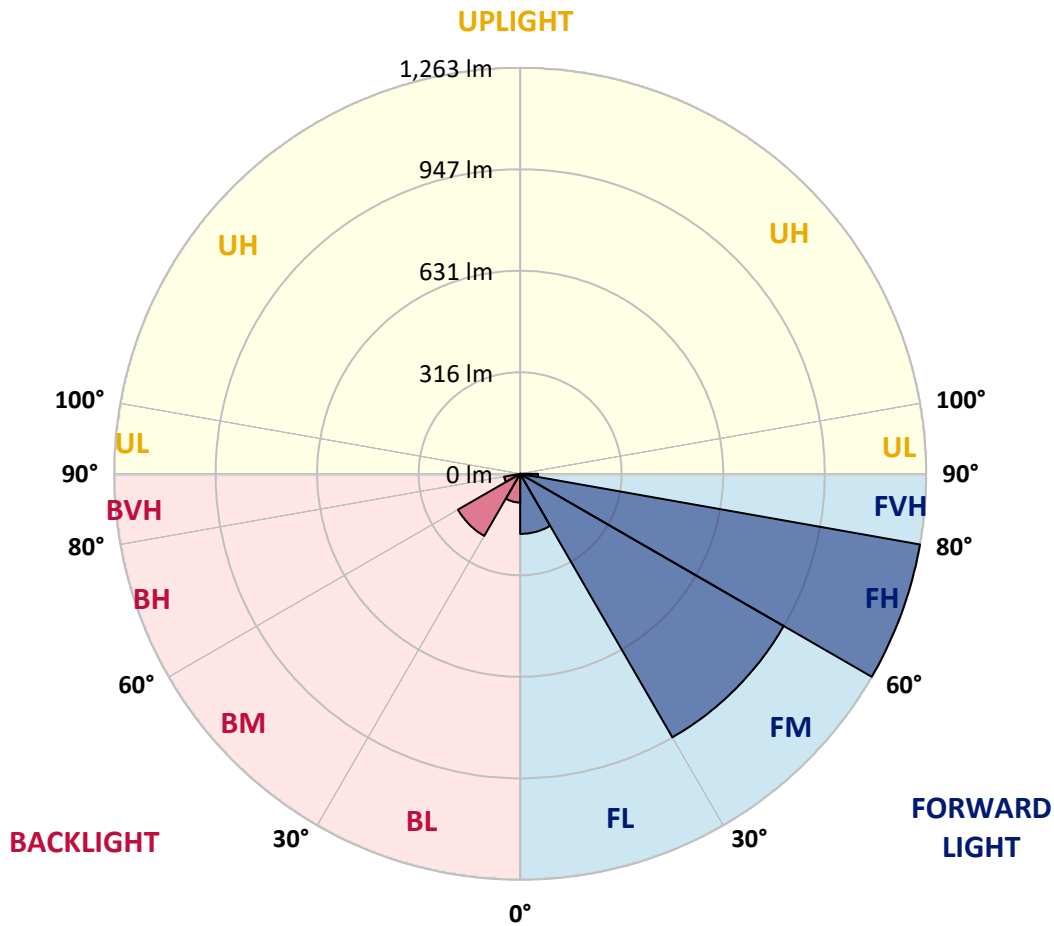
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	186.8	6.6			
FM (30°-60°)	946.4	33.6			
FH (60°-80°)	1262.7	44.9			G1/1800
FVH (80°-90°)	55.6	2.0			G1/100
BL (0°-30°)	89.2	3.2	B0/110		
BM (30°-60°)	223.2	7.9	B1/1000		
BH (60°-80°)	50.6	1.8	B0/110		G0/110
BVH (80°-90°)	0.4	0.0			G0/10
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°	40°	45°	55°	65°	75°
0°	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7
2.5°	384.0	385.4	384.6	382.9	382.5	381.6	380.6	380.1	378.7	377.4
5°	394.8	396.3	395.2	392.9	391.8	390.8	389.3	388.0	385.0	382.3
7.5°	406.7	407.9	406.7	403.3	401.6	400.3	398.2	396.3	392.9	388.8
10°	419.8	420.9	418.9	414.5	411.7	409.8	407.9	405.8	402.6	398.2
12.5°	432.1	433.4	430.4	425.1	421.9	420.0	417.9	416.2	413.0	408.8
15°	443.3	445.2	440.2	434.4	430.8	429.3	427.2	426.2	424.0	421.1
17.5°	451.8	453.1	447.8	441.0	437.0	435.9	434.4	435.1	434.6	433.2
20°	459.0	459.9	452.9	444.6	440.2	440.4	439.9	442.1	442.9	442.9
22.5°	467.9	468.1	459.2	448.8	443.5	445.0	445.7	448.0	449.7	451.4
25°	479.6	479.2	468.6	454.4	449.7	451.8	453.3	454.1	456.1	458.8
27.5°	497.0	495.7	482.1	463.3	457.7	459.7	462.4	462.0	461.1	463.3
30°	519.0	517.3	499.3	475.8	470.7	472.4	473.2	469.4	463.3	465.2
32.5°	554.0	551.0	526.0	489.8	481.9	483.8	482.8	474.9	465.8	467.7
35°	614.9	607.6	572.2	519.0	494.6	492.5	490.0	482.3	471.1	469.2
37.5°	744.2	731.5	671.0	576.1	523.5	509.7	501.8	494.2	476.8	469.2
40°	890.1	877.1	807.4	671.5	571.4	548.1	529.4	508.2	482.8	472.0
42.5°	1042.3	1028.1	956.4	789.8	639.9	592.0	557.2	519.4	492.5	480.4
45°	1212.3	1194.5	1100.8	913.2	739.3	664.9	601.9	542.6	509.5	495.5
47.5°	1391.7	1368.6	1244.8	1033.0	846.4	765.8	683.8	583.9	534.5	518.0
50°	1550.7	1527.8	1393.4	1158.3	946.5	861.9	777.0	641.1	572.0	549.8
52.5°	1665.0	1647.6	1528.7	1287.6	1050.6	952.0	861.6	707.7	619.5	590.5
55°	1741.5	1725.6	1624.5	1410.1	1171.6	1051.2	945.0	780.0	676.8	639.2
57.5°	1788.0	1778.8	1693.8	1519.5	1291.6	1159.7	1040.4	859.5	744.2	696.7
60°	1804.5	1797.1	1736.9	1623.9	1436.6	1290.1	1152.5	949.2	826.0	762.0
62.5°	1760.4	1761.9	1767.8	1747.5	1589.5	1442.8	1287.0	1056.9	916.8	836.0
65°	1552.8	1565.1	1677.9	1884.4	1792.0	1634.0	1458.1	1188.4	1020.7	920.2
67.5°	1285.7	1303.5	1443.8	1964.6	2007.8	1882.3	1696.4	1355.9	1144.5	1005.8
70°	984.2	1003.3	1173.3	1947.8	2209.9	2153.7	1991.1	1568.9	1272.7	1065.2
72.5°	702.4	712.2	846.2	1798.8	2292.8	2338.6	2208.2	1770.8	1338.3	1032.3
75°	493.6	491.9	580.7	1448.5	2163.7	2316.1	2132.1	1661.6	1211.1	820.1
77.5°	215.0	215.4	290.0	879.7	1726.9	1978.1	1772.3	1040.8	844.3	434.6
80°	55.8	57.5	106.4	350.3	1039.7	1305.6	1080.9	457.5	390.1	106.0
82.5°	19.7	21.0	49.0	110.0	383.5	598.7	481.3	146.3	101.8	30.3
85°	5.7	6.8	26.3	33.7	79.3	169.2	116.8	28.4	25.0	15.7
87.5°	0.0	0.8	5.3	4.7	4.7	3.2	5.9	3.2	4.0	1.9
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°
372.7	0°	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7	372.7
375.9	2.5°	374.6	373.2	370.0	366.6	363.4	360.4	359.6	356.4	354.9	355.1
378.9	5°	376.5	373.8	367.6	360.2	352.6	343.9	336.7	326.5	317.8	316.8
384.6	7.5°	381.6	377.2	367.2	352.8	333.7	309.8	287.5	265.4	252.9	246.2
393.1	10°	389.5	383.5	368.3	340.7	300.2	257.4	223.7	195.9	181.7	175.1
403.5	12.5°	398.8	392.2	370.0	320.1	257.0	200.8	164.3	147.4	144.4	144.0
416.2	15°	412.0	404.7	371.9	292.4	210.1	152.9	136.1	136.3	138.7	139.9
430.0	17.5°	426.6	419.4	369.1	258.5	163.9	130.6	130.2	132.1	135.5	136.8
442.7	20°	441.4	434.6	359.4	218.6	132.5	124.5	126.2	128.3	131.7	133.4
455.2	22.5°	456.7	450.8	343.9	176.2	119.6	120.0	122.1	124.2	128.1	130.0
467.5	25°	473.0	467.9	323.3	141.2	114.1	115.3	118.1	120.6	124.7	127.0
477.9	27.5°	489.6	485.7	300.0	117.9	109.0	110.5	113.6	117.0	121.1	123.8
487.0	30°	507.6	505.5	281.3	109.2	104.1	105.4	109.0	112.8	117.2	120.6
496.1	32.5°	526.0	525.6	272.2	115.6	99.6	100.5	103.7	107.5	113.0	117.2
503.8	35°	544.3	545.1	266.9	133.6	98.2	95.8	98.0	101.3	107.9	113.2
512.4	37.5°	567.6	569.7	266.7	153.1	101.8	91.2	92.7	95.0	100.7	106.9
526.0	40°	602.3	613.6	280.3	169.8	108.1	86.9	87.4	87.8	90.7	95.8
544.0	42.5°	648.6	681.4	329.3	181.3	110.7	83.1	81.6	79.3	78.9	81.6
568.6	45°	706.0	763.5	415.3	187.6	108.1	78.9	74.8	68.7	66.4	68.3
601.9	47.5°	773.7	853.4	517.3	189.1	103.9	73.6	66.4	58.3	56.4	57.0
646.7	50°	839.6	920.8	607.0	176.8	96.9	66.8	57.0	50.2	49.0	49.2
699.4	52.5°	897.9	943.9	632.5	147.8	87.6	58.5	49.0	44.3	43.5	43.5
757.8	55°	936.5	918.9	564.0	113.0	75.9	50.0	42.0	39.6	39.2	39.0
822.8	57.5°	944.5	837.5	425.9	81.6	59.4	42.2	37.3	36.0	35.2	34.3
889.6	60°	915.7	701.8	271.2	57.0	44.5	36.0	33.1	32.2	30.5	28.8
952.4	62.5°	853.4	530.0	150.1	39.6	35.8	30.7	29.3	28.2	25.0	22.3
1002.2	65°	769.6	352.4	66.4	31.0	29.3	25.9	25.0	23.5	19.7	16.5
1021.1	67.5°	685.5	202.9	29.9	24.8	23.5	21.2	20.6	19.5	16.7	13.8
973.0	70°	589.4	102.8	20.6	19.7	18.2	16.1	16.7	16.5	13.8	11.2
793.6	72.5°	438.9	51.1	15.5	14.8	13.1	11.4	13.8	13.6	10.8	8.5
489.3	75°	248.5	25.2	11.2	10.4	7.8	8.5	11.0	10.4	7.4	5.5
206.5	77.5°	98.6	12.9	7.4	6.4	4.7	5.7	8.1	7.0	3.8	2.3
39.4	80°	22.7	6.4	3.8	2.8	2.1	3.4	4.2	2.5	1.1	0.2
10.6	82.5°	6.4	2.8	1.3	1.1	1.1	1.3	1.1	0.4	0.0	0.0
2.8	85°	2.1	1.3	0.4	0.2	0.2	0.2	0.2	0.0	0.0	0.0
0.8	87.5°	0.8	0.4	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>
372.7
354.9
316.1
245.7
173.9
143.7
139.7
136.5
133.4
130.0
127.0
124.0
121.1
117.7
114.1
107.9
97.5
83.1
68.3
56.8
49.2
43.3
38.6
33.9
28.2
21.4
15.9
13.4
10.8
8.1
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