

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: P938786

Luminaire Tested: **GALN-SB1A-827-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938786
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3060 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

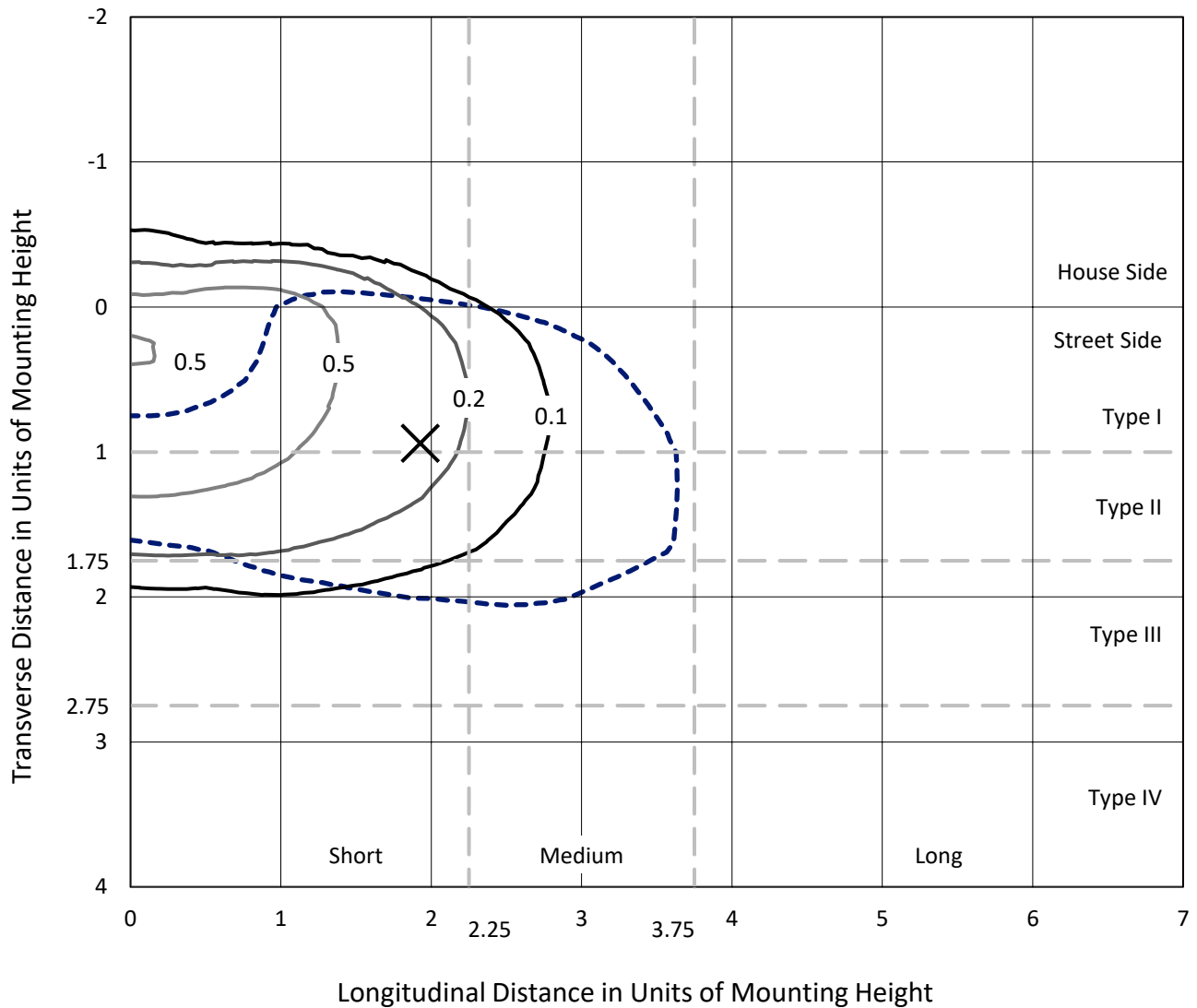
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

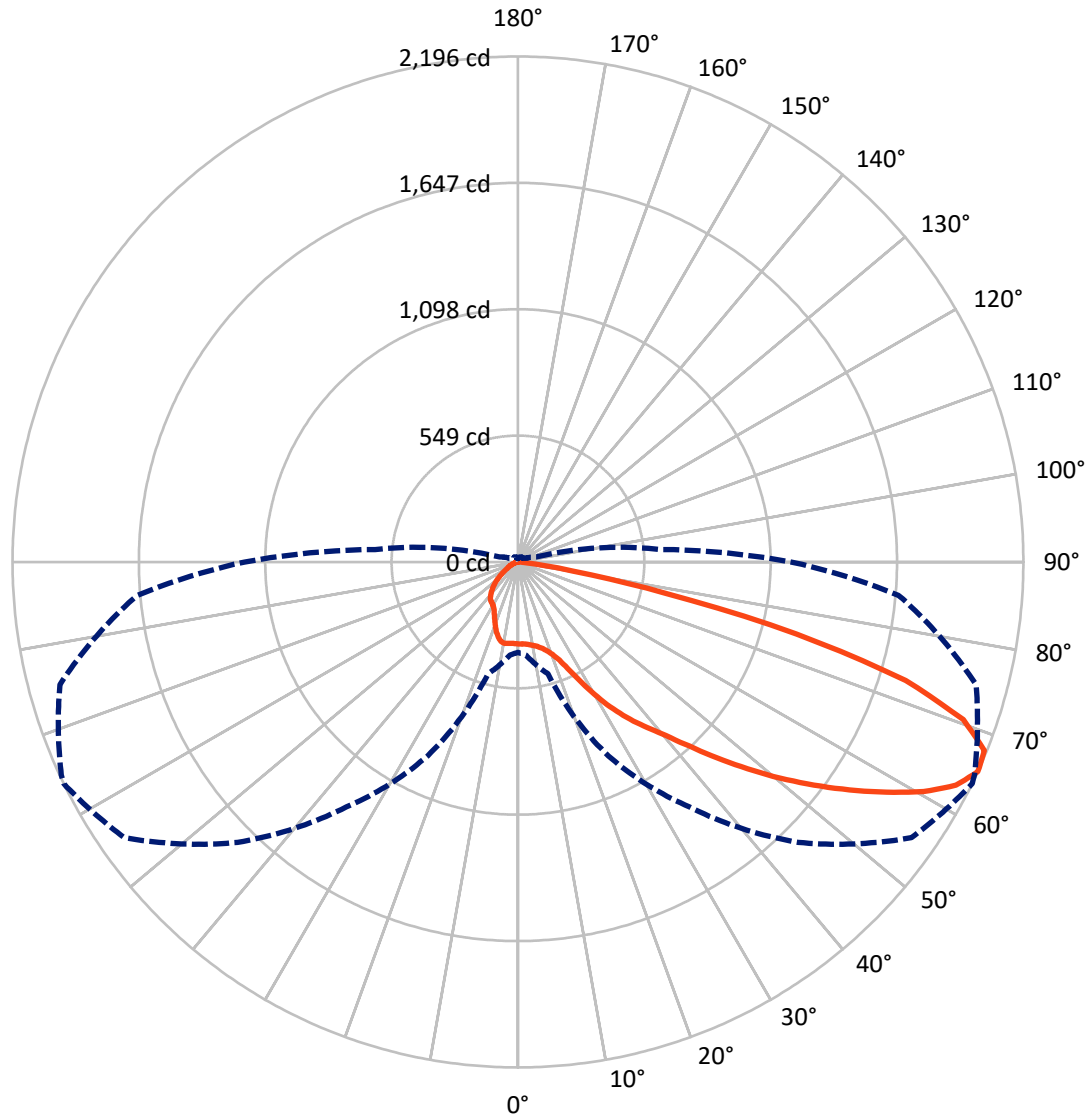
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	409.2	0.0	409.2
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	2650.8	0.0	2650.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	3060.0	0.0	3060.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.8	1.1
10°-20°	89.1	2.9
20°-30°	168.8	5.5
30°-40°	341.5	11.2
40°-50°	581.7	19.0
50°-60°	791.1	25.9
60°-70°	742.9	24.3
70°-80°	297.6	9.7
80°-90°	14.4	0.5
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°	3060.0	100.0
0°-180°	3060.0	100.0

Coefficient of Utilization



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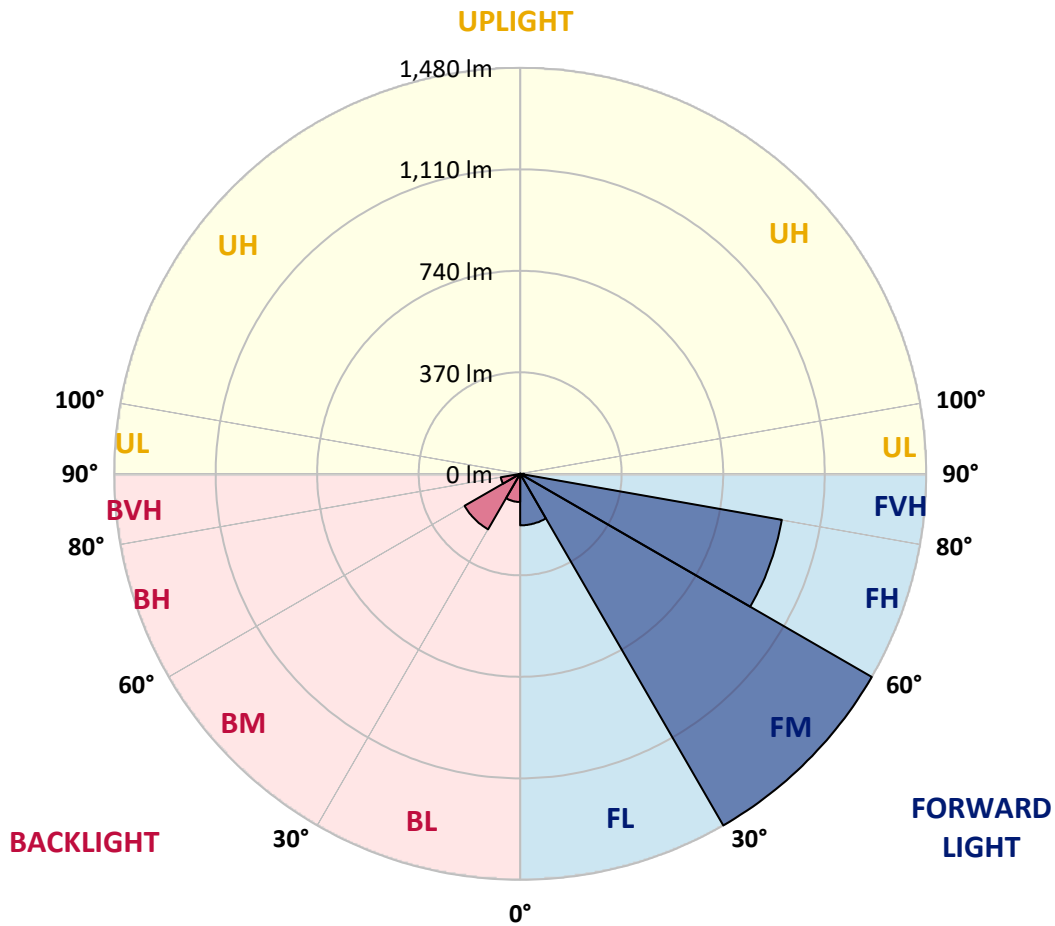
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	187.9	6.1			
FM (30°-60°)	1480.4	48.4			
FH (60°-80°)	968.7	31.7			G1/1800
FVH (80°-90°)	13.7	0.4			G1/100
BL (0°-30°)	102.7	3.4	B0/110		
BM (30°-60°)	233.9	7.6	B1/1000		
BH (60°-80°)	71.8	2.3	B0/110		G0/110
BVH (80°-90°)	0.7	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	355.9	355.9	355.9	355.9	355.9	355.9	355.9	355.9	355.9	355.9
2.5°	354.7	357.1	356.5	355.9	355.7	356.1	356.3	356.1	356.1	356.1
5°	347.9	350.0	350.0	351.4	353.4	355.9	357.8	358.2	358.6	359.2
7.5°	335.0	336.6	337.9	342.6	347.7	354.3	359.8	362.7	363.1	365.3
10°	326.2	328.2	330.3	335.2	342.6	352.4	361.9	368.8	369.9	375.2
12.5°	325.8	327.8	330.5	335.8	344.4	354.9	366.4	376.4	378.3	386.1
15°	330.1	332.5	335.0	341.6	350.8	363.5	375.8	388.3	390.2	401.2
17.5°	338.9	342.2	344.0	350.6	360.4	374.6	390.8	405.1	406.8	419.7
20°	356.3	360.2	360.8	366.2	375.8	391.0	410.3	428.1	430.2	444.9
22.5°	392.4	398.0	393.0	395.7	404.3	419.5	440.4	463.0	465.9	482.7
25°	456.0	463.8	451.1	446.6	450.3	466.1	492.3	520.8	524.1	537.7
27.5°	580.9	570.9	551.6	532.7	521.7	530.7	560.2	595.5	599.6	612.7
30°	718.2	709.4	683.3	641.5	615.2	613.8	641.0	680.4	685.2	697.7
32.5°	855.6	847.2	818.9	767.4	721.9	699.3	718.2	761.9	764.3	772.3
35°	990.8	982.2	953.9	901.2	845.2	793.9	790.2	839.4	840.2	848.6
37.5°	1126.8	1119.6	1089.5	1037.8	982.6	911.8	877.6	912.9	913.9	922.1
40°	1223.8	1226.9	1206.2	1166.2	1118.8	1041.5	975.6	991.0	984.9	998.6
42.5°	1307.1	1313.3	1295.2	1275.1	1247.6	1179.5	1097.1	1094.4	1084.6	1091.9
45°	1379.1	1384.3	1368.0	1363.3	1362.7	1314.9	1229.8	1213.8	1200.0	1198.6
47.5°	1405.6	1415.4	1422.4	1438.2	1469.0	1448.9	1367.0	1342.2	1326.8	1315.5
50°	1415.6	1426.1	1449.9	1495.8	1568.7	1577.3	1503.6	1475.7	1456.9	1436.4
52.5°	1402.1	1420.8	1452.8	1530.1	1635.7	1680.3	1634.7	1610.3	1588.8	1555.3
55°	1322.3	1341.0	1406.4	1529.7	1669.2	1752.5	1758.6	1747.8	1723.5	1670.8
57.5°	1154.1	1181.8	1285.4	1477.6	1668.6	1814.6	1880.1	1887.9	1860.8	1785.3
60°	921.1	958.6	1085.0	1362.1	1617.1	1848.3	1986.5	2025.5	1996.8	1898.1
62.5°	642.7	686.2	805.8	1181.2	1499.3	1824.1	2064.3	2136.3	2114.5	1999.0
65°	392.0	406.0	502.4	929.5	1299.1	1722.7	2088.3	2196.2	2189.0	2060.8
67.5°	261.1	272.8	300.5	637.4	1008.4	1520.3	2030.8	2185.7	2187.8	2050.7
70°	157.3	167.4	185.4	370.7	653.6	1203.3	1853.0	2052.4	2064.3	1916.4
72.5°	64.8	71.6	88.0	168.0	338.5	763.7	1475.5	1762.1	1789.8	1611.3
75°	36.7	40.2	51.7	84.3	146.9	355.9	893.8	1250.9	1291.7	1110.6
77.5°	24.4	26.1	33.4	54.6	82.7	121.4	382.0	651.7	729.7	606.6
80°	16.4	17.8	23.0	36.5	53.7	52.1	121.6	241.4	297.0	208.4
82.5°	11.1	11.3	16.4	24.0	34.1	25.2	35.9	75.1	94.4	60.3
85°	6.4	6.2	12.1	13.9	15.2	10.5	10.9	22.6	29.5	25.4
87.5°	0.8	1.2	4.7	3.7	2.1	2.3	2.3	3.9	5.7	6.2
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°
355.9	0°	355.9	355.9	355.9	355.9	355.9	355.9	355.9	355.9	355.9	355.9
356.3	2.5°	356.3	356.1	355.5	354.9	353.4	352.6	353.0	352.6	352.4	352.6
359.0	5°	359.0	358.4	356.7	354.7	351.8	348.3	346.1	342.8	339.7	337.9
366.2	7.5°	366.2	365.6	363.3	357.6	348.3	333.8	320.4	308.7	299.9	294.8
377.7	10°	377.7	376.6	373.1	360.4	336.2	304.4	278.0	256.0	241.6	234.9
391.2	12.5°	391.2	390.0	383.8	357.8	313.2	263.6	227.1	202.7	189.3	183.4
406.8	15°	407.2	405.6	393.4	345.0	279.8	218.5	185.0	166.8	158.2	152.8
426.7	17.5°	427.1	424.2	400.6	326.0	243.5	184.0	159.2	145.4	137.9	132.7
452.7	20°	452.9	448.2	406.4	303.2	210.1	162.3	141.7	130.3	124.5	120.0
489.7	22.5°	489.0	482.3	413.3	278.6	186.5	147.3	128.8	120.4	115.7	110.6
541.1	25°	533.8	525.8	422.0	255.8	170.3	134.4	119.4	112.4	106.9	100.9
608.6	27.5°	596.3	582.0	432.2	237.1	156.3	123.3	110.8	103.0	96.6	91.7
685.2	30°	666.1	642.5	441.2	225.9	143.6	113.0	99.5	91.7	85.7	82.3
753.9	32.5°	732.1	700.1	447.2	220.9	132.1	101.3	87.2	78.8	74.3	73.2
821.2	35°	794.5	752.2	446.6	216.2	121.9	89.6	75.1	66.5	63.0	63.6
893.6	37.5°	866.3	807.8	442.3	208.8	113.4	79.0	64.6	57.0	54.0	54.2
981.6	40°	949.8	872.0	439.6	194.9	104.2	69.1	56.0	49.8	47.6	46.8
1074.3	42.5°	1038.8	934.2	440.0	179.1	92.7	60.3	50.1	44.9	42.9	42.3
1177.5	45°	1128.2	993.5	440.6	162.7	80.6	53.5	45.7	41.4	40.2	39.4
1282.1	47.5°	1212.3	1043.9	429.1	145.0	68.7	48.4	42.3	39.4	38.4	37.3
1387.1	50°	1290.7	1077.6	401.4	124.5	59.3	44.3	39.6	37.5	36.5	35.5
1482.3	52.5°	1351.6	1082.9	355.7	103.4	52.7	41.2	38.0	36.1	34.9	33.8
1559.2	55°	1378.7	1049.5	290.7	83.7	47.6	38.6	36.3	34.5	33.0	32.0
1619.7	57.5°	1371.7	979.1	226.7	67.3	42.7	35.9	34.3	33.0	31.4	29.7
1668.8	60°	1337.5	885.0	170.9	56.0	38.2	33.0	32.0	31.0	28.7	26.3
1687.6	62.5°	1278.2	766.6	121.9	46.4	33.2	29.7	29.3	28.5	25.2	20.7
1659.7	65°	1187.5	622.8	82.1	38.6	28.5	26.1	26.3	24.8	20.5	15.4
1557.6	67.5°	1055.0	455.4	52.5	31.6	23.8	21.7	21.9	21.1	17.4	13.1
1363.9	70°	886.2	301.5	34.3	24.0	19.1	16.8	18.1	18.3	14.8	10.7
1046.8	72.5°	649.7	178.1	24.0	17.8	13.9	11.7	14.8	15.2	11.9	8.0
629.8	75°	370.3	84.5	18.1	12.9	8.6	8.2	11.5	11.5	8.2	5.3
272.6	77.5°	155.5	35.3	12.7	8.4	4.9	4.7	7.8	7.2	4.1	2.5
66.5	80°	44.9	15.8	6.8	4.1	2.1	1.8	3.1	2.3	1.0	0.4
25.2	82.5°	17.6	7.0	2.7	1.6	0.8	0.8	0.4	0.0	0.0	0.0
14.4	85°	10.5	2.9	1.2	0.6	0.2	0.0	0.0	0.0	0.0	0.0
3.1	87.5°	2.7	0.6	0.4	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>
355.9
353.4
338.3
295.0
234.3
182.8
153.0
132.3
119.2
109.7
100.3
90.7
81.6
73.8
63.6
55.0
46.6
42.1
39.4
37.3
35.5
33.6
31.8
29.5
25.8
20.3
15.0
12.5
10.3
7.6
4.9
2.5
0.4
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