

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: P938781

Luminaire Tested: **GALN-SB1A-827-U-SL4-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938781
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-827-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 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: 2724 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

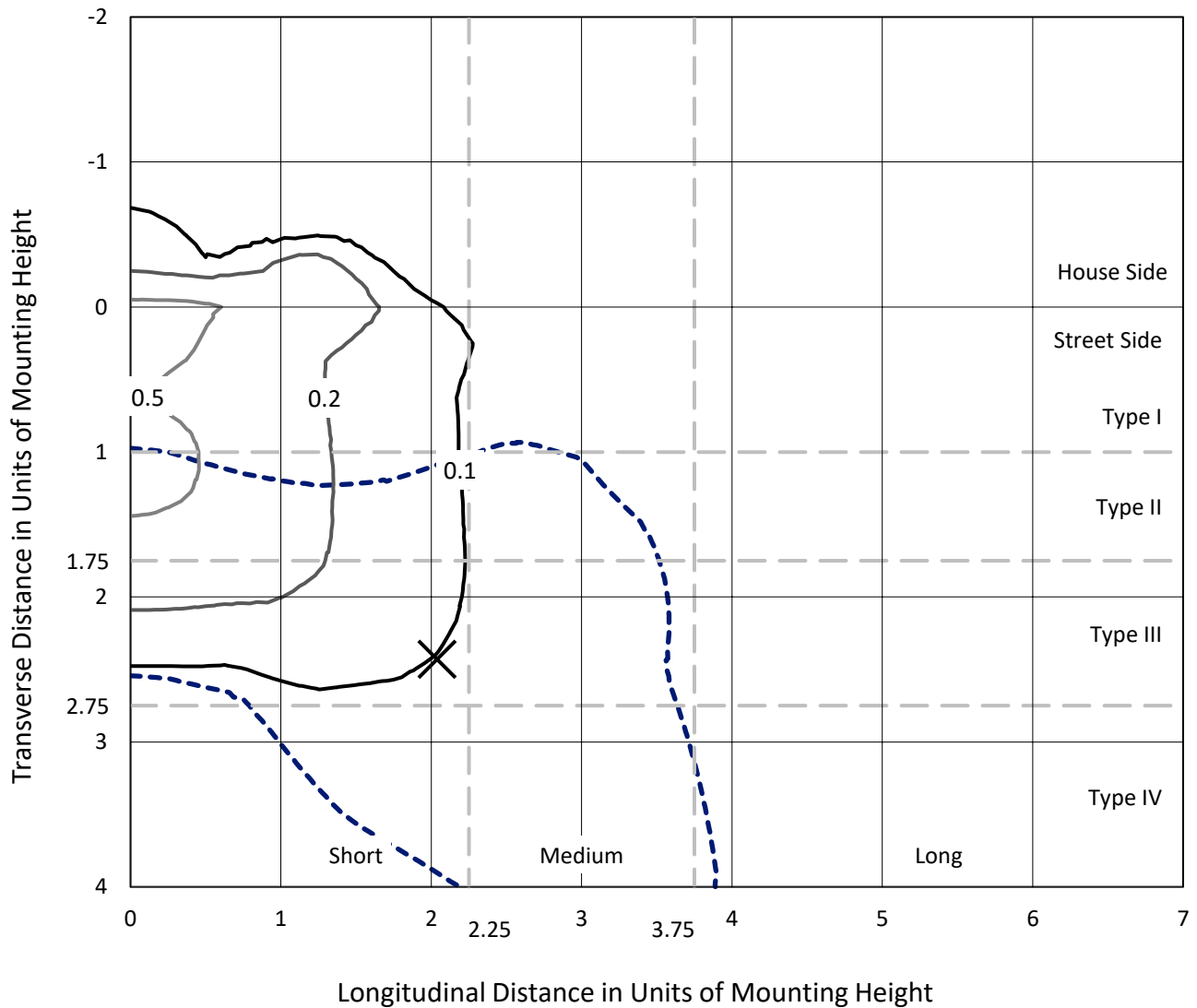
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

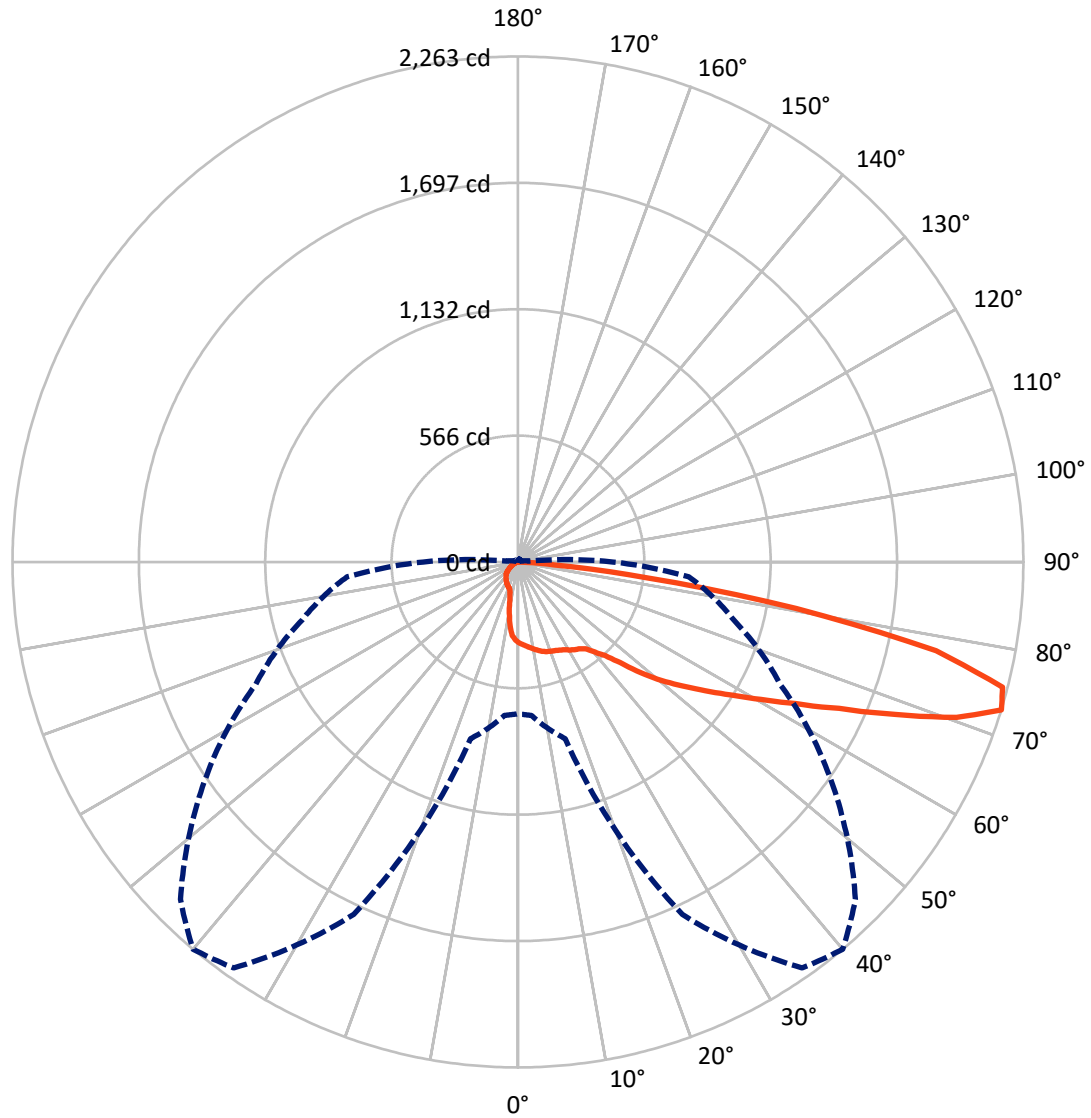
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 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	351.8	0.0	351.8
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	2372.2	0.0	2372.2
	% Fixture	87.1	0.0	87.1
Total	Lumens	2724.0	0.0	2724.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.9	1.2
10°-20°	89.5	3.3
20°-30°	144.7	5.3
30°-40°	213.7	7.8
40°-50°	359.6	13.2
50°-60°	558.4	20.5
60°-70°	698.8	25.7
70°-80°	572.1	21.0
80°-90°	54.2	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°	2724.0	100.0
0°-180°	2724.0	100.0

Coefficient of Utilization



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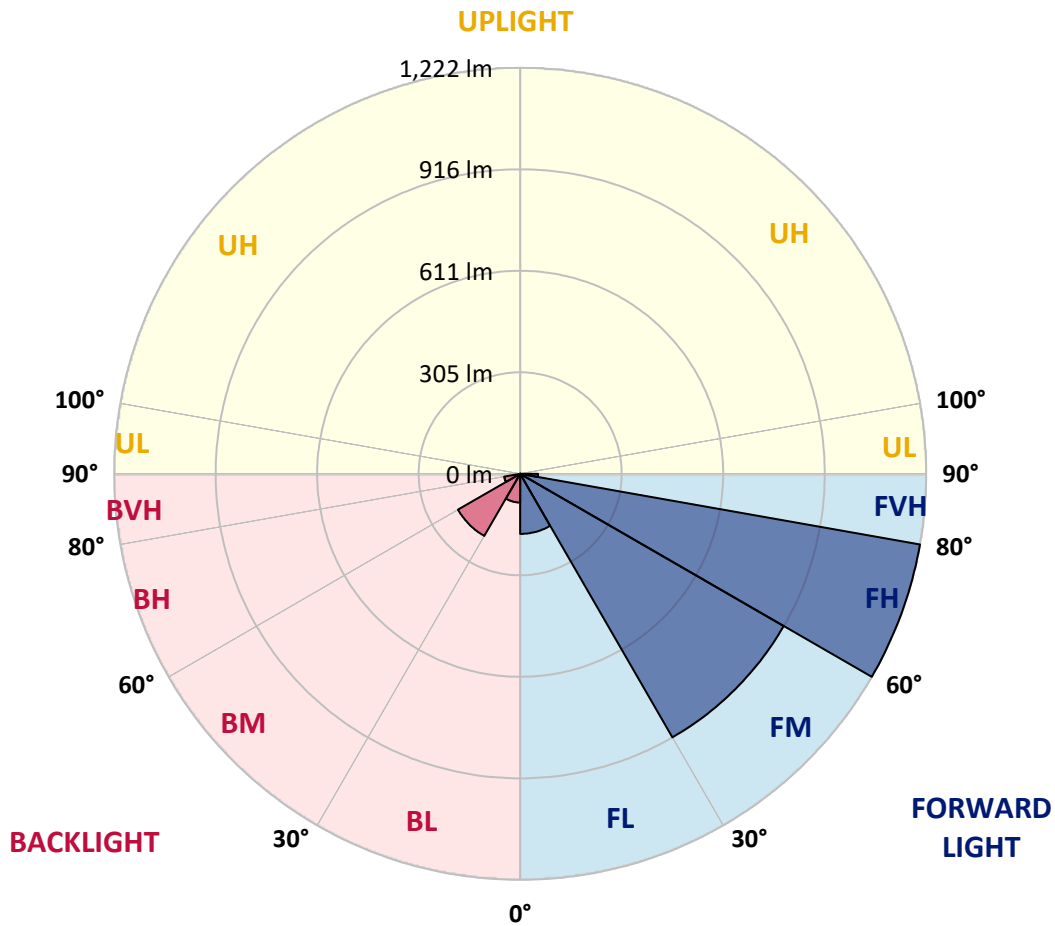
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	180.8	6.6			
FM (30°-60°)	915.8	33.6			
FH (60°-80°)	1221.8	44.9			G1/1800
FVH (80°-90°)	53.8	2.0			G1/100
BL (0°-30°)	86.3	3.2	B0/110		
BM (30°-60°)	216.0	7.9	B0/220		
BH (60°-80°)	49.0	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: B0-U0-G1

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	360.7	360.7	360.7	360.7	360.7	360.7	360.7	360.7	360.7	360.7
2.5°	371.6	373.0	372.2	370.5	370.1	369.3	368.3	367.9	366.4	365.2
5°	382.0	383.5	382.4	380.2	379.1	378.1	376.7	375.5	372.6	369.9
7.5°	393.5	394.7	393.5	390.2	388.6	387.4	385.3	383.5	380.2	376.3
10°	406.2	407.3	405.4	401.1	398.4	396.6	394.7	392.7	389.6	385.3
12.5°	418.1	419.4	416.5	411.4	408.3	406.4	404.4	402.7	399.7	395.6
15°	429.0	430.8	425.9	420.4	416.9	415.5	413.4	412.4	410.3	407.5
17.5°	437.2	438.4	433.3	426.7	422.8	421.8	420.4	421.0	420.6	419.2
20°	444.2	445.0	438.2	430.2	425.9	426.1	425.7	427.8	428.6	428.6
22.5°	452.8	453.0	444.4	434.3	429.2	430.6	431.3	433.5	435.2	436.8
25°	464.1	463.7	453.4	439.7	435.2	437.2	438.6	439.5	441.3	444.0
27.5°	480.9	479.7	466.5	448.3	443.0	444.8	447.5	447.1	446.2	448.3
30°	502.2	500.6	483.2	460.4	455.5	457.1	457.9	454.2	448.3	450.1
32.5°	536.1	533.2	509.0	473.9	466.3	468.2	467.2	459.6	450.7	452.6
35°	595.0	588.0	553.7	502.2	478.6	476.6	474.1	466.7	455.9	454.0
37.5°	720.1	707.8	649.3	557.4	506.6	493.2	485.6	478.2	461.4	454.0
40°	861.3	848.8	781.3	649.8	552.9	530.4	512.3	491.8	467.2	456.7
42.5°	1008.6	994.8	925.5	764.2	619.2	572.8	539.2	502.7	476.6	464.9
45°	1173.1	1155.9	1065.2	883.6	715.4	643.4	582.5	525.0	493.0	479.5
47.5°	1346.7	1324.3	1204.5	999.6	819.0	741.1	661.7	565.0	517.2	501.2
50°	1500.6	1478.4	1348.3	1120.8	915.9	834.0	751.9	620.4	553.5	532.0
52.5°	1611.2	1594.3	1479.2	1246.0	1016.6	921.2	833.8	684.8	599.5	571.4
55°	1685.2	1669.8	1572.0	1364.6	1133.7	1017.2	914.4	754.8	654.9	618.6
57.5°	1730.2	1721.3	1639.1	1470.4	1249.9	1122.3	1006.7	831.7	720.1	674.2
60°	1746.2	1739.0	1680.7	1571.4	1390.2	1248.4	1115.3	918.5	799.3	737.4
62.5°	1703.5	1704.9	1710.7	1691.0	1538.1	1396.1	1245.4	1022.7	887.1	809.0
65°	1502.6	1514.5	1623.7	1823.5	1734.1	1581.2	1410.9	1149.9	987.7	890.4
67.5°	1244.1	1261.4	1397.2	1901.1	1942.9	1821.5	1641.5	1312.0	1107.5	973.3
70°	952.4	970.8	1135.4	1884.8	2138.4	2084.1	1926.7	1518.2	1231.6	1030.7
72.5°	679.7	689.1	818.8	1740.6	2218.7	2263.0	2136.8	1713.5	1295.0	998.9
75°	477.6	476.0	561.9	1401.7	2093.7	2241.2	2063.1	1607.9	1171.9	793.6
77.5°	208.0	208.4	280.7	851.2	1671.1	1914.2	1715.0	1007.2	817.0	420.6
80°	54.0	55.6	103.0	338.9	1006.1	1263.4	1045.9	442.7	377.5	102.6
82.5°	19.1	20.3	47.4	106.5	371.1	579.4	465.7	141.6	98.5	29.3
85°	5.5	6.6	25.4	32.6	76.7	163.7	113.0	27.5	24.2	15.2
87.5°	0.0	0.8	5.1	4.5	4.5	3.1	5.7	3.1	3.9	1.8
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°
360.7	0°	360.7	360.7	360.7	360.7	360.7	360.7	360.7	360.7	360.7	360.7
363.8	2.5°	362.5	361.1	358.0	354.7	351.7	348.8	348.0	344.9	343.4	343.7
366.6	5°	364.4	361.7	355.8	348.6	341.2	332.8	325.8	316.0	307.5	306.5
372.2	7.5°	369.3	365.0	355.3	341.4	322.9	299.7	278.2	256.9	244.8	238.2
380.4	10°	376.9	371.1	356.4	329.7	290.5	249.1	216.4	189.6	175.8	169.5
390.4	12.5°	385.9	379.6	358.0	309.8	248.7	194.3	159.0	142.6	139.7	139.3
402.7	15°	398.6	391.7	359.9	282.9	203.3	147.9	131.7	131.9	134.2	135.4
416.1	17.5°	412.8	405.8	357.2	250.1	158.6	126.4	126.0	127.8	131.1	132.3
428.4	20°	427.2	420.6	347.8	211.5	128.2	120.4	122.1	124.1	127.4	129.0
440.5	22.5°	441.9	436.2	332.8	170.5	115.7	116.1	118.2	120.2	123.9	125.8
452.4	25°	457.7	452.8	312.9	136.6	110.4	111.6	114.3	116.7	120.6	122.9
462.4	27.5°	473.7	470.0	290.3	114.1	105.5	106.9	110.0	113.3	117.1	119.8
471.3	30°	491.2	489.1	272.3	105.7	100.7	102.0	105.5	109.1	113.5	116.7
480.1	32.5°	509.0	508.6	263.4	111.8	96.4	97.2	100.3	104.0	109.4	113.5
487.5	35°	526.7	527.5	258.3	129.3	95.0	92.7	94.8	98.1	104.4	109.6
495.9	37.5°	549.2	551.3	258.1	148.1	98.5	88.2	89.7	91.9	97.5	103.4
509.0	40°	582.9	593.7	271.2	164.3	104.6	84.1	84.5	84.9	87.8	92.7
526.5	42.5°	627.6	659.4	318.6	175.4	107.1	80.4	79.0	76.7	76.3	79.0
550.3	45°	683.2	738.8	401.9	181.6	104.6	76.3	72.4	66.5	64.2	66.1
582.5	47.5°	748.6	825.8	500.6	183.0	100.5	71.2	64.2	56.4	54.6	55.2
625.8	50°	812.5	891.0	587.4	171.1	93.8	64.6	55.2	48.6	47.4	47.6
676.8	52.5°	868.9	913.4	612.0	143.0	84.7	56.6	47.4	42.9	42.1	42.1
733.3	55°	906.2	889.2	545.7	109.4	73.4	48.4	40.6	38.4	38.0	37.8
796.2	57.5°	914.0	810.4	412.2	79.0	57.4	40.8	36.1	34.9	34.1	33.2
860.9	60°	886.1	679.1	262.4	55.2	43.1	34.9	32.0	31.2	29.5	27.9
921.6	62.5°	825.8	512.9	145.3	38.4	34.7	29.7	28.3	27.3	24.2	21.5
969.8	65°	744.7	341.0	64.2	30.0	28.3	25.0	24.2	22.8	19.1	16.0
988.1	67.5°	663.3	196.3	28.9	24.0	22.8	20.5	19.9	18.9	16.2	13.3
941.5	70°	570.4	99.5	19.9	19.1	17.6	15.6	16.2	16.0	13.3	10.9
767.9	72.5°	424.7	49.4	15.0	14.4	12.7	11.1	13.3	13.1	10.5	8.2
473.5	75°	240.5	24.4	10.9	10.1	7.6	8.2	10.7	10.1	7.2	5.3
199.8	77.5°	95.4	12.5	7.2	6.2	4.5	5.5	7.8	6.8	3.7	2.3
38.2	80°	22.0	6.2	3.7	2.7	2.1	3.3	4.1	2.5	1.0	0.2
10.3	82.5°	6.2	2.7	1.2	1.0	1.0	1.2	1.0	0.4	0.0	0.0
2.7	85°	2.1	1.2	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>
360.7
343.4
305.9
237.8
168.2
139.1
135.2
132.1
129.0
125.8
122.9
120.0
117.1
113.9
110.4
104.4
94.4
80.4
66.1
55.0
47.6
41.9
37.3
32.8
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