

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: P939001

Luminaire Tested: **GALN-SB1B-927-U-SL4-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939001
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-SB1B-927-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 2700K, 450mA 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: 2393 lumens
Efficiency: N/A
Efficacy: 60.1 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

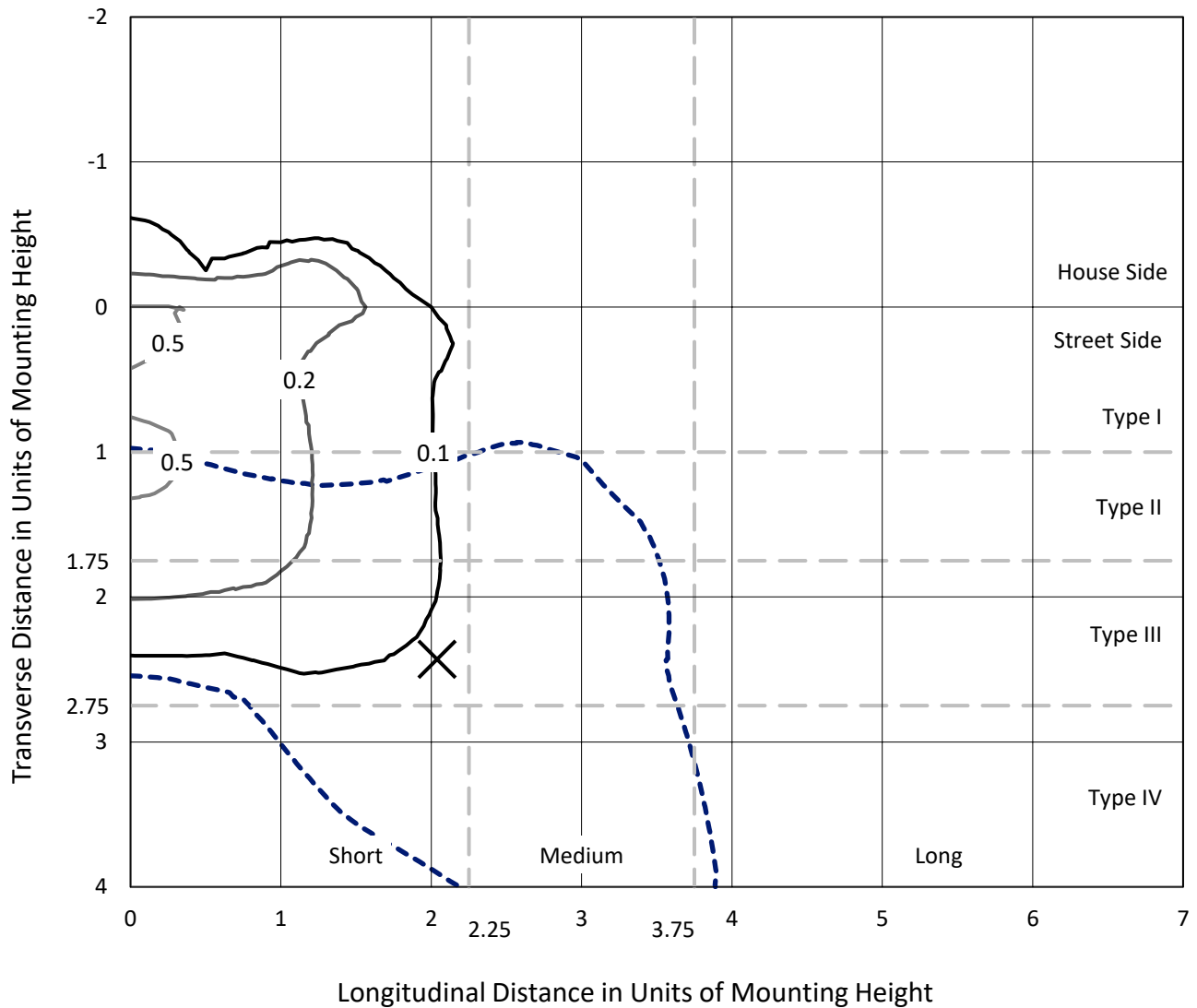
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

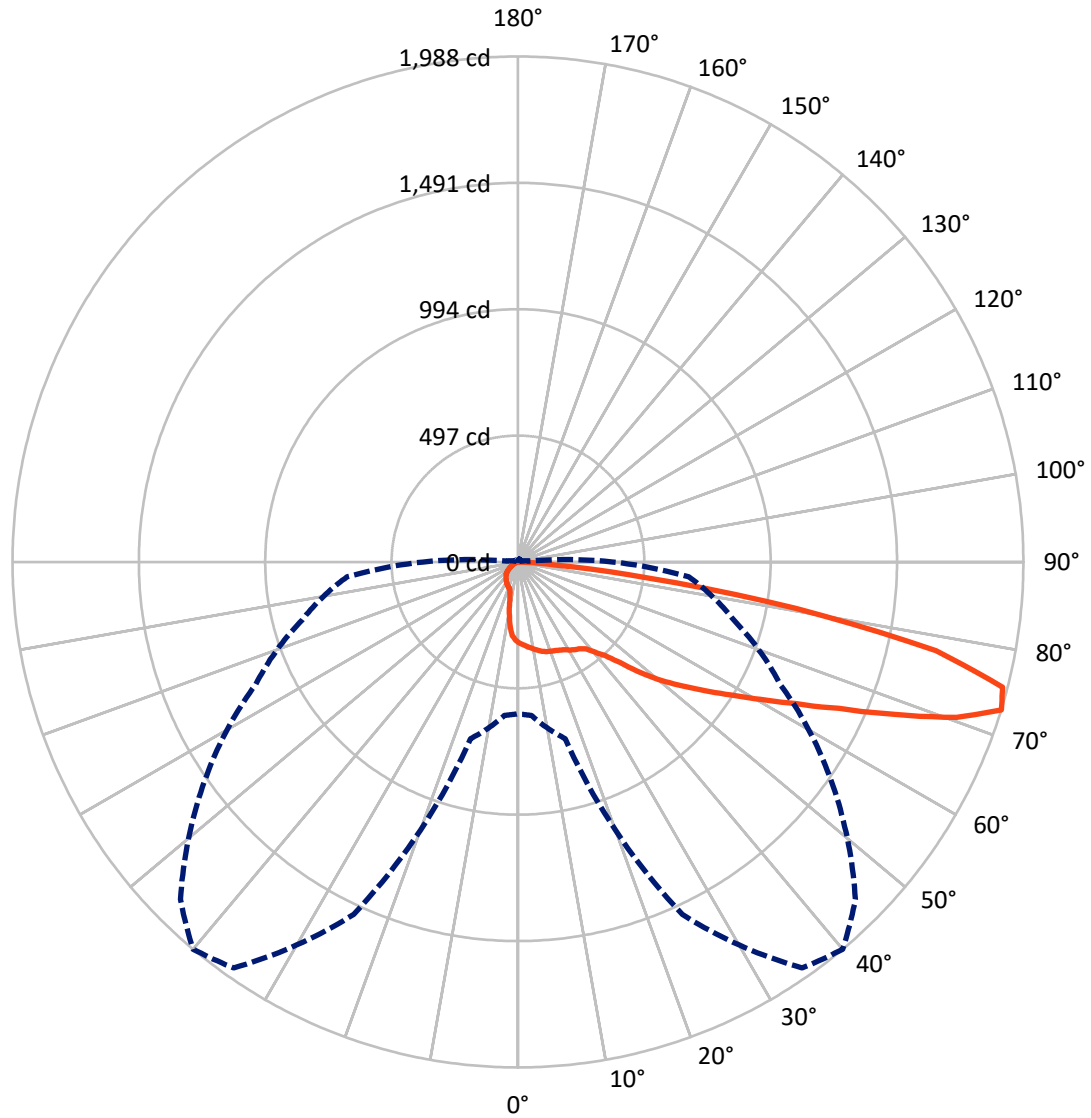
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P939001
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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	309.0	0.0	309.0
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	2084.0	0.0	2084.0
	% Fixture	87.1	0.0	87.1
Total	Lumens	2393.0	0.0	2393.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.9	1.2
10°-20°	78.6	3.3
20°-30°	127.2	5.3
30°-40°	187.7	7.8
40°-50°	315.9	13.2
50°-60°	490.6	20.5
60°-70°	613.9	25.7
70°-80°	502.6	21.0
80°-90°	47.7	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°	2393.0	100.0
0°-180°	2393.0	100.0

Coefficient of Utilization



REPORT NUMBER: P939001

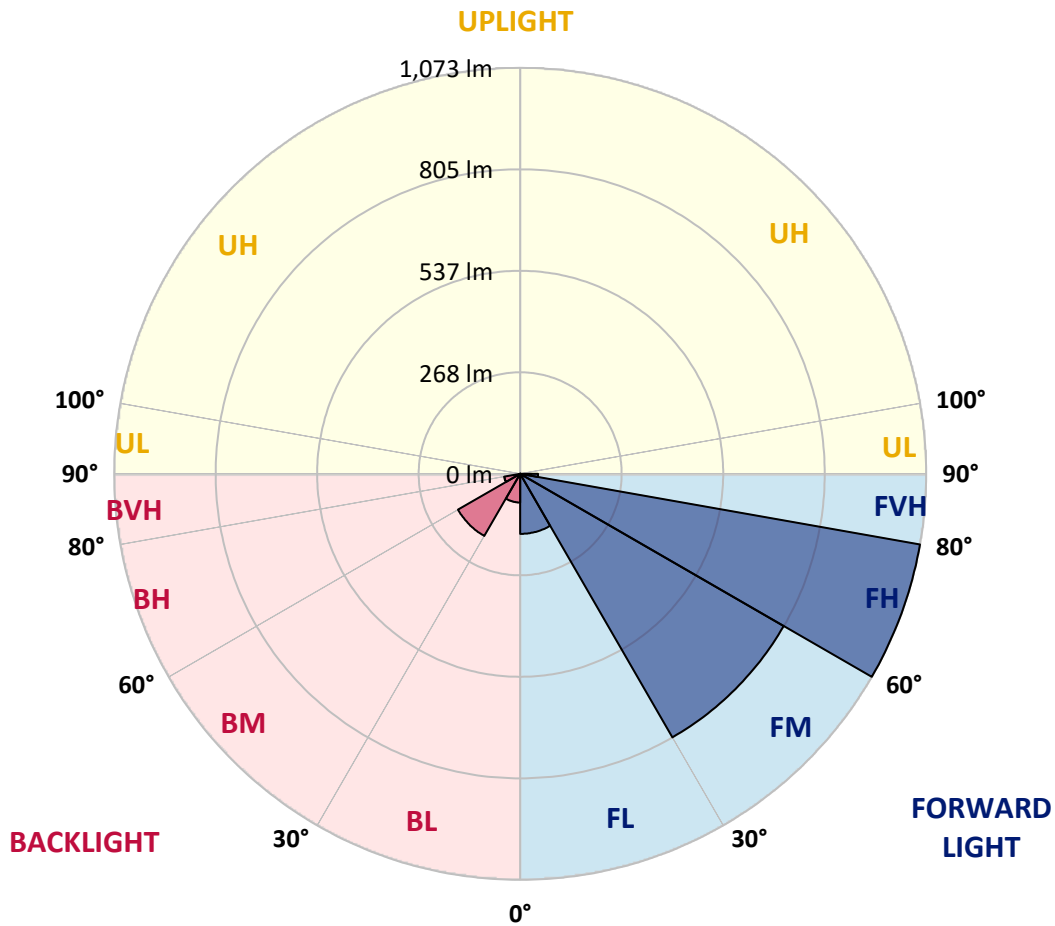
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	158.8	6.6			
FM (30°-60°)	804.5	33.6			
FH (60°-80°)	1073.4	44.9			G1/1800
FVH (80°-90°)	47.3	2.0			G1/100
BL (0°-30°)	75.9	3.2	B0/110		
BM (30°-60°)	189.8	7.9	B0/220		
BH (60°-80°)	43.1	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



REPORT NUMBER: P939001
 CATALOG NUMBER: GALN-SB1B-927-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	316.9	316.9	316.9	316.9	316.9	316.9	316.9	316.9	316.9	316.9
2.5°	326.4	327.7	326.9	325.5	325.1	324.4	323.5	323.2	321.9	320.8
5°	335.6	336.9	336.0	334.0	333.1	332.2	330.9	329.8	327.3	325.0
7.5°	345.7	346.8	345.7	342.8	341.4	340.3	338.5	336.9	334.0	330.6
10°	356.9	357.8	356.1	352.4	350.0	348.4	346.8	345.0	342.3	338.5
12.5°	367.3	368.4	365.9	361.4	358.7	357.0	355.2	353.8	351.1	347.5
15°	376.9	378.5	374.2	369.3	366.2	365.0	363.2	362.3	360.5	357.9
17.5°	384.1	385.2	380.7	374.9	371.5	370.6	369.3	369.8	369.5	368.2
20°	390.2	390.9	385.0	378.0	374.2	374.3	374.0	375.8	376.5	376.5
22.5°	397.8	398.0	390.4	381.6	377.1	378.3	378.9	380.8	382.3	383.7
25°	407.7	407.3	398.3	386.2	382.3	384.1	385.3	386.1	387.7	390.0
27.5°	422.5	421.4	409.9	393.8	389.1	390.7	393.1	392.7	392.0	393.8
30°	441.2	439.8	424.5	404.4	400.1	401.6	402.3	399.0	393.8	395.4
32.5°	471.0	468.4	447.2	416.3	409.7	411.3	410.4	403.7	396.0	397.6
35°	522.7	516.6	486.5	441.2	420.5	418.7	416.5	410.0	400.5	398.9
37.5°	632.6	621.8	570.4	489.7	445.0	433.3	426.6	420.1	405.3	398.9
40°	756.6	745.6	686.3	570.8	485.7	465.9	450.0	432.0	410.4	401.2
42.5°	886.0	874.0	813.0	671.4	543.9	503.2	473.7	441.6	418.7	408.4
45°	1030.6	1015.4	935.8	776.3	628.5	565.2	511.7	461.2	433.1	421.2
47.5°	1183.1	1163.4	1058.2	878.1	719.5	651.0	581.3	496.4	454.4	440.3
50°	1318.2	1298.8	1184.5	984.6	804.6	732.7	660.6	545.0	486.3	467.3
52.5°	1415.4	1400.6	1299.5	1094.6	893.1	809.3	732.5	601.6	526.6	502.0
55°	1480.4	1466.9	1381.0	1198.7	996.0	893.6	803.3	663.1	575.3	543.4
57.5°	1519.9	1512.2	1439.9	1291.7	1098.0	985.9	884.4	730.7	632.6	592.3
60°	1534.0	1527.7	1476.5	1380.4	1221.3	1096.7	979.8	806.9	702.2	647.8
62.5°	1496.5	1497.8	1502.8	1485.5	1351.2	1226.5	1094.0	898.5	779.3	710.7
65°	1320.0	1330.5	1426.4	1601.9	1523.3	1389.1	1239.5	1010.2	867.6	782.2
67.5°	1092.9	1108.1	1227.4	1670.1	1706.8	1600.1	1442.1	1152.6	972.9	855.0
70°	836.6	852.9	997.4	1655.8	1878.6	1830.8	1692.6	1333.7	1081.9	905.5
72.5°	597.1	605.4	719.3	1529.1	1949.1	1988.0	1877.1	1505.3	1137.6	877.6
75°	419.6	418.1	493.7	1231.4	1839.3	1968.9	1812.4	1412.5	1029.5	697.1
77.5°	182.8	183.1	246.6	747.8	1468.0	1681.6	1506.6	884.8	717.7	369.5
80°	47.4	48.8	90.5	297.7	883.9	1109.9	918.8	388.9	331.6	90.1
82.5°	16.8	17.8	41.6	93.5	326.0	509.0	409.1	124.4	86.5	25.8
85°	4.9	5.8	22.3	28.7	67.4	143.8	99.3	24.2	21.3	13.3
87.5°	0.0	0.7	4.5	4.0	4.0	2.7	5.0	2.7	3.4	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P939001
 CATALOG NUMBER: GALN-SB1B-927-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
316.9	0°	316.9	316.9	316.9	316.9	316.9	316.9	316.9	316.9	316.9	316.9
319.6	2.5°	318.5	317.2	314.5	311.6	308.9	306.4	305.7	303.0	301.7	301.9
322.1	5°	320.1	317.8	312.5	306.2	299.7	292.3	286.2	277.6	270.2	269.3
326.9	7.5°	324.4	320.6	312.2	299.9	283.7	263.3	244.4	225.7	215.0	209.3
334.2	10°	331.1	326.0	313.1	289.6	255.2	218.8	190.1	166.5	154.5	148.9
343.0	12.5°	339.0	333.4	314.5	272.2	218.4	170.7	139.7	125.3	122.7	122.4
353.8	15°	350.2	344.1	316.1	248.5	178.6	129.9	115.7	115.9	117.9	119.0
365.5	17.5°	362.6	356.5	313.8	219.7	139.3	111.0	110.7	112.3	115.2	116.3
376.3	20°	375.2	369.5	305.5	185.8	112.6	105.8	107.2	109.0	111.9	113.4
387.0	22.5°	388.2	383.2	292.3	149.8	101.7	102.0	103.8	105.6	108.9	110.5
397.4	25°	402.1	397.8	274.9	120.0	97.0	98.0	100.4	102.6	106.0	108.0
406.2	27.5°	416.2	412.9	255.0	100.2	92.6	93.9	96.6	99.5	102.9	105.3
414.0	30°	431.5	429.7	239.2	92.8	88.5	89.6	92.6	95.9	99.7	102.6
421.7	32.5°	447.2	446.8	231.4	98.2	84.7	85.4	88.1	91.4	96.1	99.7
428.2	35°	462.7	463.4	226.9	113.5	83.4	81.5	83.3	86.2	91.7	96.2
435.6	37.5°	482.5	484.3	226.7	130.1	86.5	77.5	78.8	80.7	85.6	90.8
447.2	40°	512.0	521.6	238.3	144.4	91.9	73.9	74.3	74.6	77.1	81.5
462.5	42.5°	551.3	579.3	279.9	154.1	94.1	70.7	69.4	67.4	67.0	69.4
483.4	45°	600.2	649.0	353.1	159.5	91.9	67.0	63.6	58.4	56.4	58.0
511.7	47.5°	657.7	725.4	439.8	160.8	88.3	62.5	56.4	49.6	47.9	48.5
549.7	50°	713.7	782.8	516.0	150.3	82.4	56.8	48.5	42.7	41.6	41.8
594.6	52.5°	763.3	802.4	537.6	125.6	74.4	49.7	41.6	37.7	36.9	36.9
644.2	55°	796.1	781.1	479.4	96.1	64.5	42.5	35.7	33.7	33.3	33.2
699.5	57.5°	802.9	711.9	362.1	69.4	50.5	35.9	31.7	30.6	29.9	29.2
756.3	60°	778.4	596.6	230.5	48.5	37.8	30.6	28.1	27.4	26.0	24.5
809.6	62.5°	725.4	450.6	127.6	33.7	30.5	26.1	24.9	24.0	21.3	18.9
852.0	65°	654.3	299.6	56.4	26.3	24.9	22.0	21.3	20.0	16.8	14.1
868.0	67.5°	582.7	172.5	25.4	21.1	20.0	18.0	17.5	16.6	14.2	11.7
827.1	70°	501.1	87.4	17.5	16.8	15.5	13.7	14.2	14.1	11.7	9.6
674.6	72.5°	373.1	43.4	13.2	12.6	11.2	9.7	11.7	11.5	9.2	7.2
416.0	75°	211.2	21.4	9.6	8.8	6.7	7.2	9.4	8.8	6.3	4.7
175.5	77.5°	83.8	11.0	6.3	5.4	4.0	4.9	6.8	5.9	3.2	2.0
33.5	80°	19.3	5.4	3.2	2.3	1.8	2.9	3.6	2.2	0.9	0.2
9.0	82.5°	5.4	2.3	1.1	0.9	0.9	1.1	0.9	0.4	0.0	0.0
2.3	85°	1.8	1.1	0.4	0.2	0.2	0.2	0.2	0.0	0.0	0.0
0.7	87.5°	0.7	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

180°
316.9
301.7
268.7
208.9
147.8
122.2
118.8
116.1
113.4
110.5
108.0
105.4
102.9
100.0
97.0
91.7
82.9
70.7
58.0
48.3
41.8
36.8
32.8
28.8
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