

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: P945162

Luminaire Tested: **GALN-SB1A-940-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945162
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
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-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2707 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B0 - U0 - G1

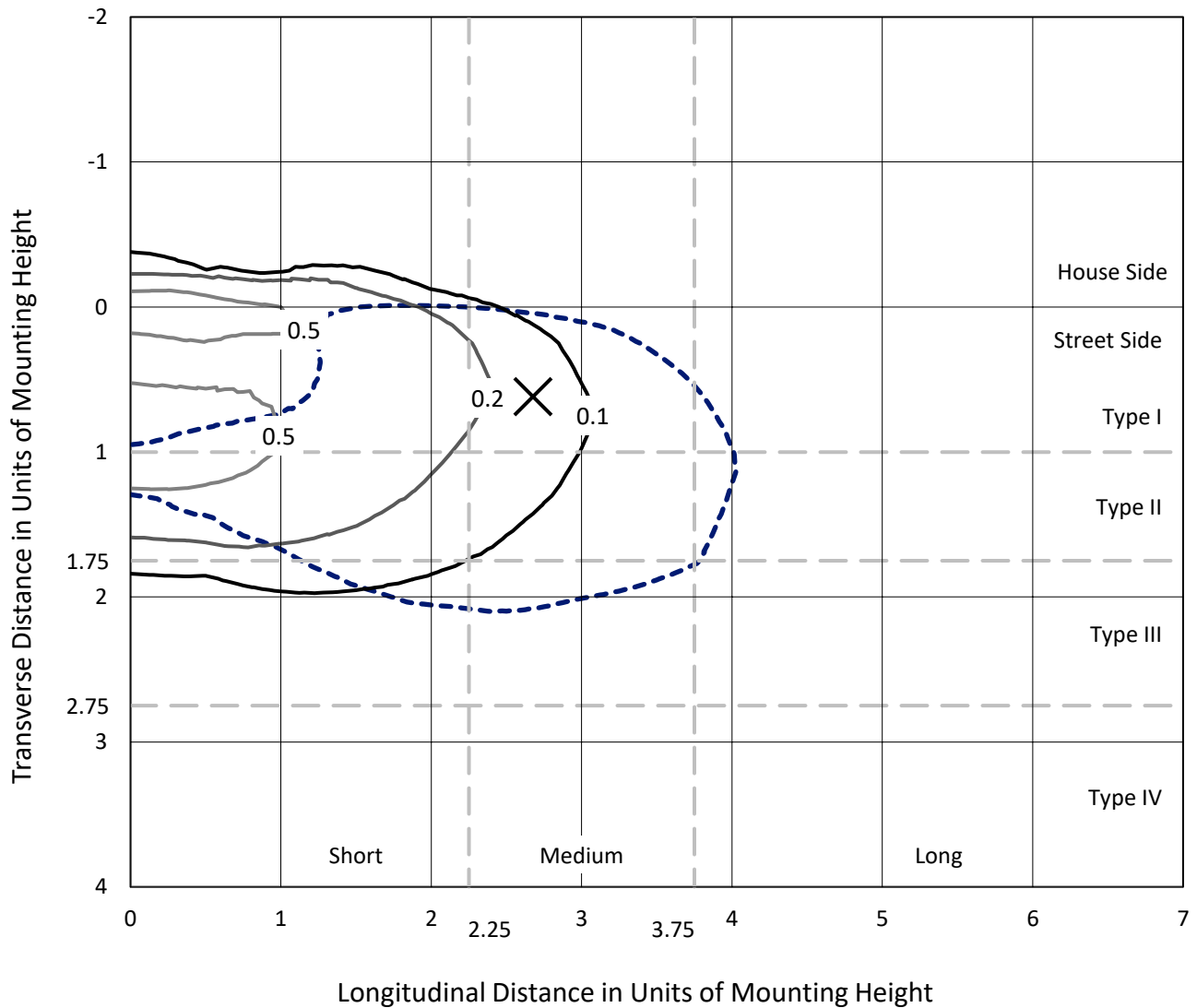
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

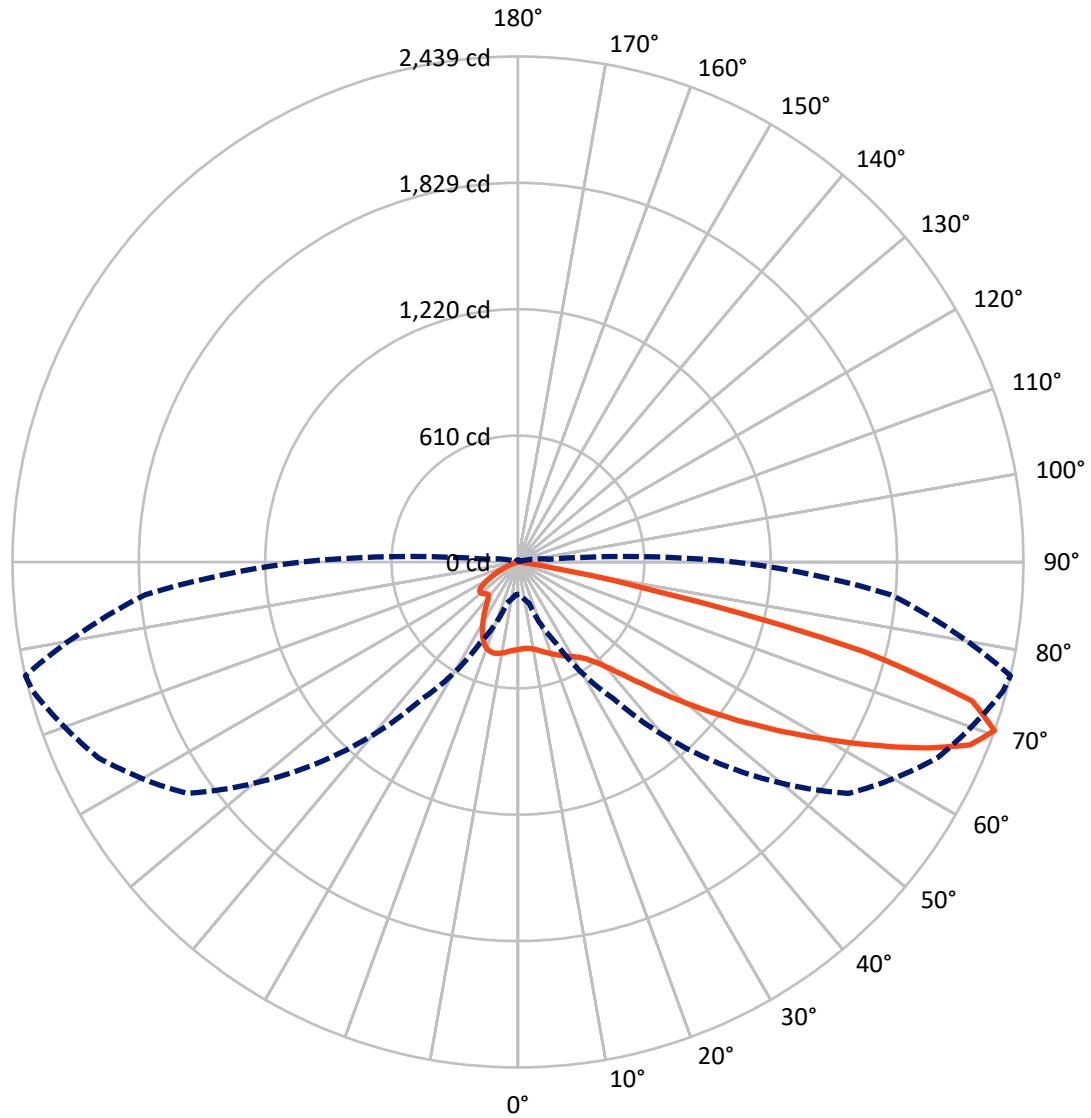
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	285.4	0.0	285.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	2421.6	0.0	2421.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	2707.0	0.0	2707.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.4	1.3
10°-20°	86.4	3.2
20°-30°	133.6	4.9
30°-40°	242.5	9.0
40°-50°	457.7	16.9
50°-60°	661.3	24.4
60°-70°	703.9	26.0
70°-80°	373.0	13.8
80°-90°	12.2	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°	2707.0	100.0
0°-180°	2707.0	100.0

Coefficient of Utilization



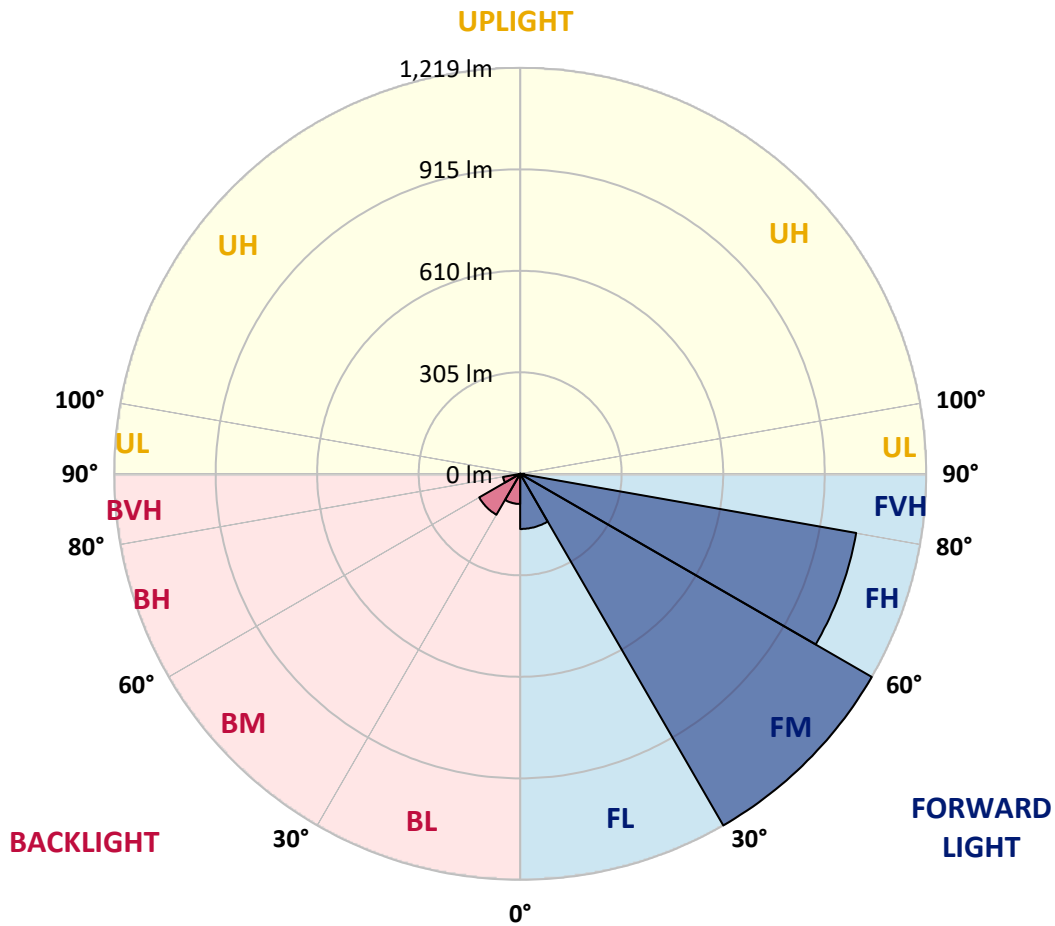
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	165.7	6.1			
FM (30°-60°)	1219.4	45.0			
FH (60°-80°)	1024.6	37.9			G1/1800
FVH (80°-90°)	11.9	0.4			G1/100
BL (0°-30°)	90.7	3.3	B0/110		
BM (30°-60°)	142.0	5.2	B0/220		
BH (60°-80°)	52.3	1.9	B0/110		G0/110
BVH (80°-90°)	0.3	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	422.2	422.2	422.2	422.2	422.2	422.2	422.2	422.2	422.2	422.2
2.5°	396.4	400.0	399.5	401.9	402.8	406.2	409.6	414.2	419.3	419.2
5°	374.0	377.6	378.5	381.7	385.8	391.1	398.1	407.4	416.9	418.5
7.5°	347.5	351.3	353.5	360.0	367.5	378.5	389.9	403.4	419.3	421.6
10°	321.0	324.5	327.4	336.6	348.6	364.8	383.4	402.9	424.3	427.5
12.5°	304.6	307.9	311.1	319.2	334.0	353.9	379.2	405.3	432.5	437.1
15°	298.8	301.7	304.3	311.5	325.3	347.9	378.3	410.3	442.9	449.1
17.5°	299.7	301.2	302.9	308.4	321.9	345.1	379.8	418.8	455.2	460.7
20°	304.6	305.5	305.7	309.4	321.4	344.8	382.9	427.0	466.9	474.2
22.5°	311.0	311.3	311.0	313.5	324.6	347.4	387.0	436.9	479.9	486.7
25°	340.5	334.0	325.8	320.9	330.1	352.3	393.2	450.3	494.0	500.7
27.5°	432.3	413.7	384.3	351.3	341.4	359.5	401.7	463.8	508.4	514.4
30°	581.4	557.0	507.0	432.7	377.6	374.5	412.8	477.3	523.6	530.1
32.5°	730.8	724.8	667.2	564.3	459.2	408.1	431.3	495.6	543.8	548.9
35°	881.9	869.8	822.6	720.9	584.8	476.3	462.1	519.5	570.3	576.1
37.5°	997.7	990.3	961.1	877.3	733.9	581.6	514.7	556.6	608.7	615.2
40°	1099.9	1096.5	1086.5	1031.3	900.6	719.4	596.6	614.0	662.1	669.8
42.5°	1180.2	1188.3	1193.9	1178.5	1072.4	876.6	706.7	694.7	736.4	744.3
45°	1262.5	1265.2	1287.9	1310.2	1243.0	1041.1	830.8	789.3	828.9	838.7
47.5°	1315.3	1326.2	1366.2	1405.4	1386.4	1204.2	964.2	900.9	936.1	954.4
50°	1319.2	1339.9	1394.9	1463.1	1490.8	1359.4	1109.1	1028.1	1065.5	1085.7
52.5°	1253.7	1285.9	1371.2	1471.0	1547.3	1490.8	1259.0	1155.3	1203.3	1229.6
55°	961.2	1003.3	1281.8	1428.3	1549.5	1590.5	1405.0	1287.8	1356.8	1386.6
57.5°	837.5	858.7	1007.7	1354.1	1508.3	1630.7	1537.0	1413.9	1523.8	1560.8
60°	696.8	724.7	845.2	1232.7	1452.4	1634.6	1653.6	1576.7	1704.9	1746.4
62.5°	473.5	503.8	623.6	1024.2	1376.0	1632.7	1749.1	1744.2	1906.1	1950.7
65°	293.3	312.3	391.3	836.3	1269.1	1634.8	1849.2	1947.6	2118.4	2163.7
67.5°	231.8	240.5	281.7	642.1	1085.0	1588.6	1949.0	2138.9	2318.2	2354.1
70°	155.7	161.0	205.0	430.4	807.2	1375.6	1947.1	2235.0	2421.1	2439.1
72.5°	82.1	86.2	119.8	199.3	487.5	977.8	1641.3	2120.1	2318.7	2291.7
75°	41.0	47.9	80.7	101.2	208.2	545.3	1019.2	1671.5	1825.0	1720.4
77.5°	31.1	37.6	66.7	66.7	72.5	183.6	431.6	911.7	840.9	700.2
80°	19.8	25.6	58.3	50.4	30.3	46.7	112.5	255.4	178.6	135.9
82.5°	11.6	16.8	48.5	33.3	16.9	17.3	31.8	54.4	46.3	36.1
85°	4.6	10.9	33.3	13.2	6.7	4.3	9.6	11.6	9.6	7.2
87.5°	0.0	2.6	5.8	0.0	0.5	0.3	0.7	0.9	0.9	0.7
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°
422.2	0°	422.2	422.2	422.2	422.2	422.2	422.2	422.2	422.2	422.2	422.2
422.6	2.5°	424.1	424.5	425.5	425.7	423.3	420.2	419.0	418.5	416.4	416.3
425.3	5°	429.3	430.8	429.3	424.8	414.2	399.3	388.1	378.8	370.4	367.9
434.7	7.5°	439.5	441.0	436.4	419.0	392.3	362.8	336.1	317.3	300.4	294.0
446.2	10°	454.2	456.3	441.7	406.5	359.3	311.8	266.7	234.9	210.1	200.0
461.7	12.5°	472.7	473.5	444.6	387.5	316.4	248.6	184.6	150.6	128.6	120.3
480.5	15°	493.0	491.8	445.0	361.7	258.0	175.7	120.5	99.0	90.1	87.4
499.3	17.5°	514.4	509.4	438.1	324.5	193.9	120.2	89.4	84.3	82.7	82.1
518.0	20°	535.4	524.3	425.7	275.7	139.2	89.7	81.2	79.7	78.8	78.5
536.8	22.5°	554.6	535.6	404.3	219.2	101.0	79.3	76.8	75.4	73.8	73.2
555.1	25°	573.2	542.1	374.2	166.3	80.9	74.2	72.1	69.6	67.5	66.7
574.7	27.5°	591.3	546.2	336.6	123.1	72.1	69.4	65.6	62.1	60.5	60.2
595.8	30°	610.6	547.5	293.9	91.8	66.8	63.4	58.0	53.8	53.0	53.2
624.1	32.5°	634.2	549.6	250.8	75.2	62.4	56.2	49.7	45.5	44.8	45.5
665.5	35°	662.4	553.7	209.2	69.2	58.5	48.9	41.9	38.3	37.6	38.1
718.5	37.5°	700.7	560.4	170.4	68.0	55.2	42.7	35.2	32.3	32.3	32.5
783.5	40°	751.7	578.1	135.7	67.2	53.5	38.1	29.7	28.5	29.1	29.4
866.2	42.5°	813.7	615.9	112.3	66.2	51.6	36.1	27.0	26.5	27.4	27.7
965.3	45°	883.3	663.8	104.1	64.4	49.9	37.4	25.8	25.1	26.2	26.3
1076.5	47.5°	955.3	710.6	103.1	62.6	48.2	39.5	25.5	23.9	25.1	25.3
1195.1	50°	1028.1	741.2	104.1	59.7	45.5	39.5	25.6	22.7	23.8	24.3
1318.2	52.5°	1101.4	755.3	103.4	53.3	40.7	37.1	25.6	21.7	22.7	23.1
1451.2	55°	1172.5	752.5	93.0	43.9	34.5	32.8	25.0	20.9	21.5	21.7
1576.8	57.5°	1228.8	714.4	73.7	34.2	28.0	27.4	22.7	19.8	20.3	20.2
1692.0	60°	1258.2	630.6	52.7	26.3	22.1	21.5	20.0	18.5	18.8	17.9
1789.7	62.5°	1258.5	519.9	35.2	20.9	17.6	17.1	17.1	16.6	16.2	14.5
1865.2	65°	1231.7	396.9	23.4	16.6	14.2	13.3	14.4	14.2	13.0	10.6
1888.3	67.5°	1170.8	260.2	17.8	13.0	10.9	10.4	11.5	12.0	11.1	8.9
1804.2	70°	1045.7	151.5	14.7	10.1	8.2	7.7	9.2	10.3	9.2	7.2
1542.1	72.5°	868.6	81.7	12.0	7.5	5.6	5.1	7.4	8.4	7.4	5.3
989.5	75°	563.6	43.8	9.2	5.0	2.9	3.2	5.5	6.2	5.1	3.4
290.4	77.5°	189.2	19.3	5.8	2.4	1.4	1.4	3.2	3.8	2.4	1.2
52.8	80°	42.2	8.0	2.4	1.0	0.5	0.5	0.7	0.7	0.3	0.0
16.2	82.5°	13.8	3.2	1.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
4.1	85°	5.3	1.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.4	87.5°	2.1	0.2	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>
422.2
416.6
366.3
291.5
195.7
117.8
87.4
81.9
78.1
73.0
66.3
59.8
53.2
45.3
38.0
32.3
29.4
27.7
26.5
25.5
24.4
23.1
21.7
20.2
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