

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: P938866

Luminaire Tested: **GALN-SB1A-940-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938866
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-940-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 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: 2550 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

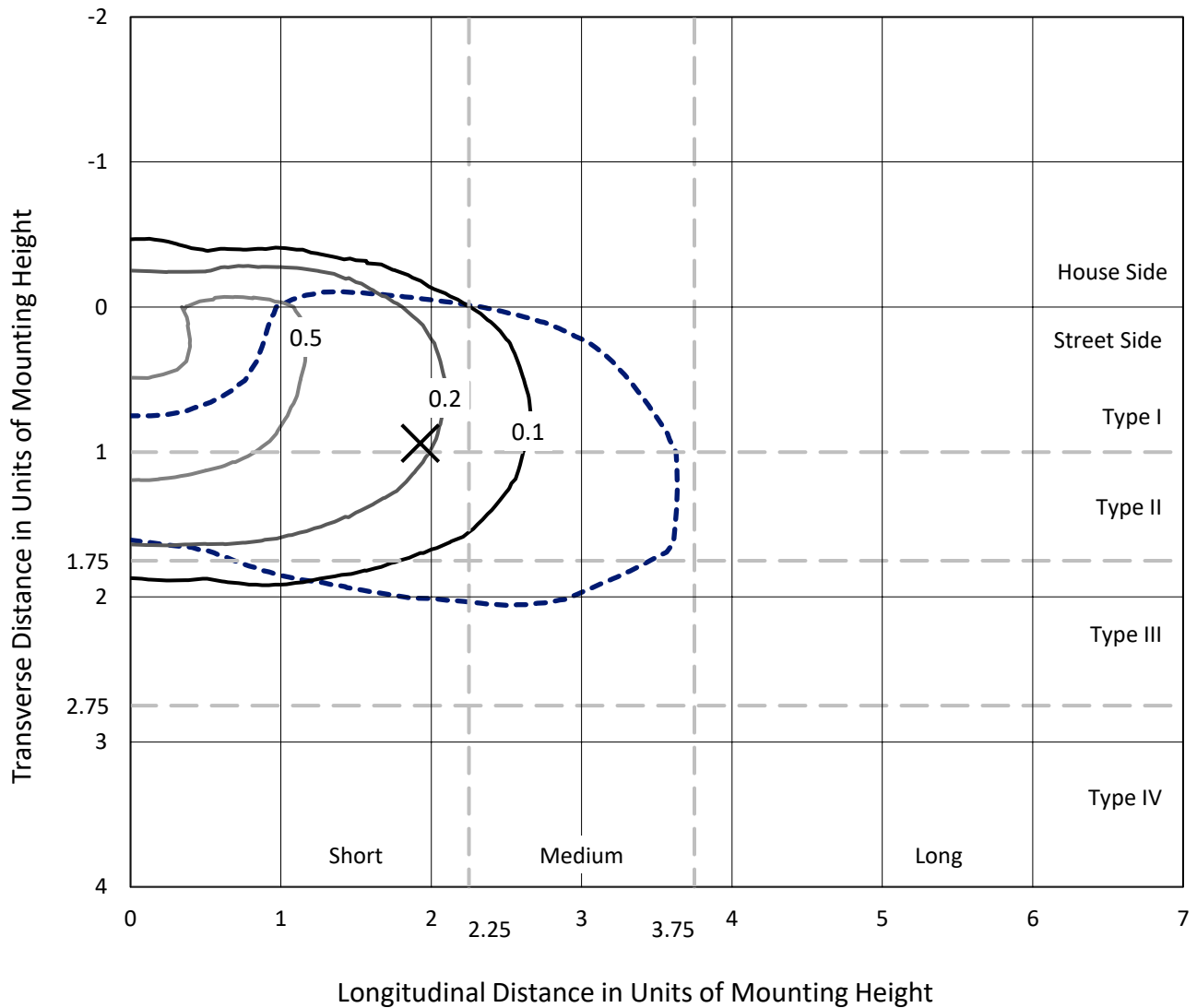
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

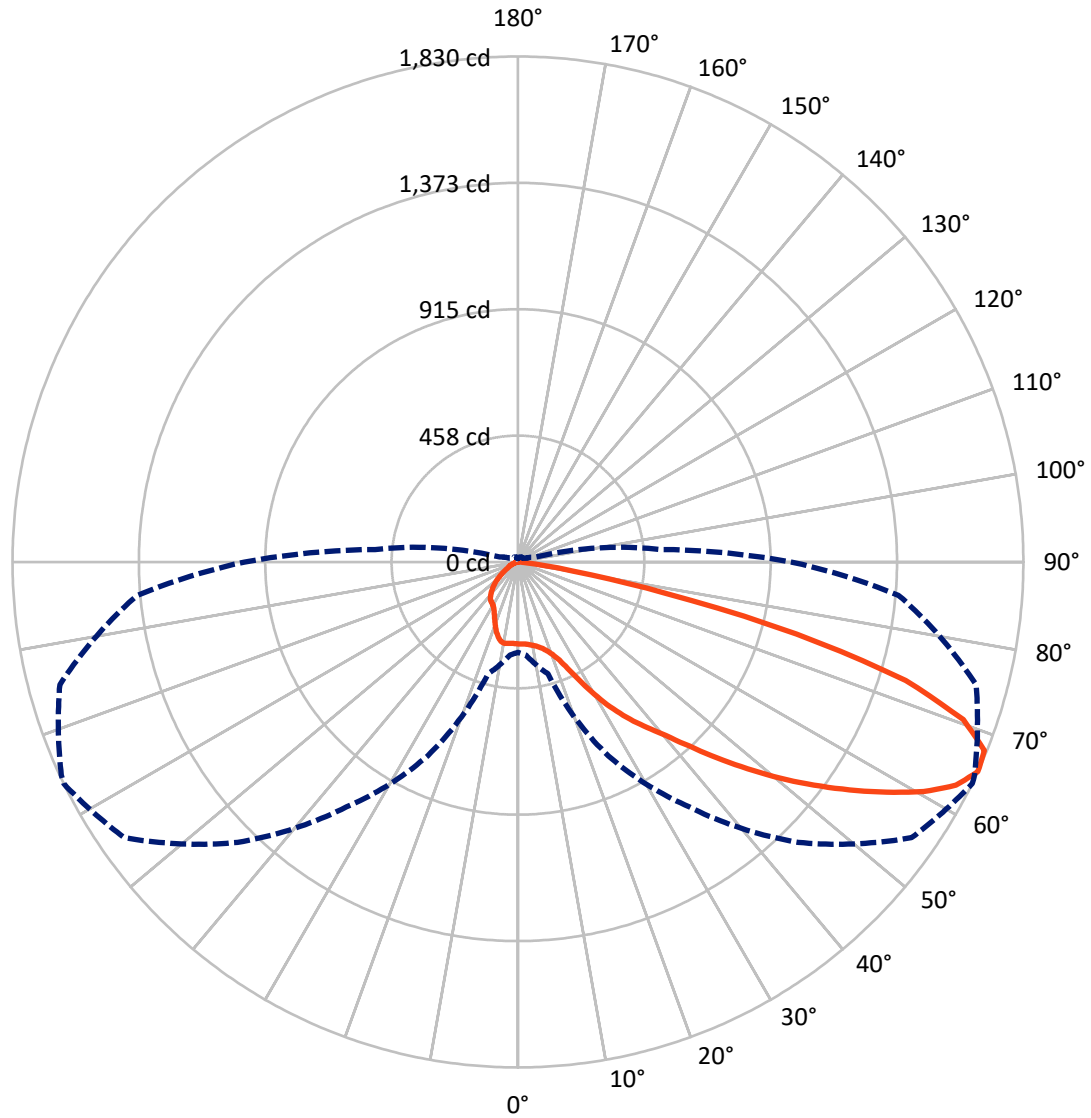
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 fc
 Type 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	341.0	0.0	341.0
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	2209.0	0.0	2209.0
	% Fixture	86.6	0.0	86.6
Total	Lumens	2550.0	0.0	2550.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.4	1.1
10°-20°	74.2	2.9
20°-30°	140.6	5.5
30°-40°	284.6	11.2
40°-50°	484.8	19.0
50°-60°	659.3	25.9
60°-70°	619.1	24.3
70°-80°	248.0	9.7
80°-90°	12.0	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°	2550.0	100.0
0°-180°	2550.0	100.0

Coefficient of Utilization



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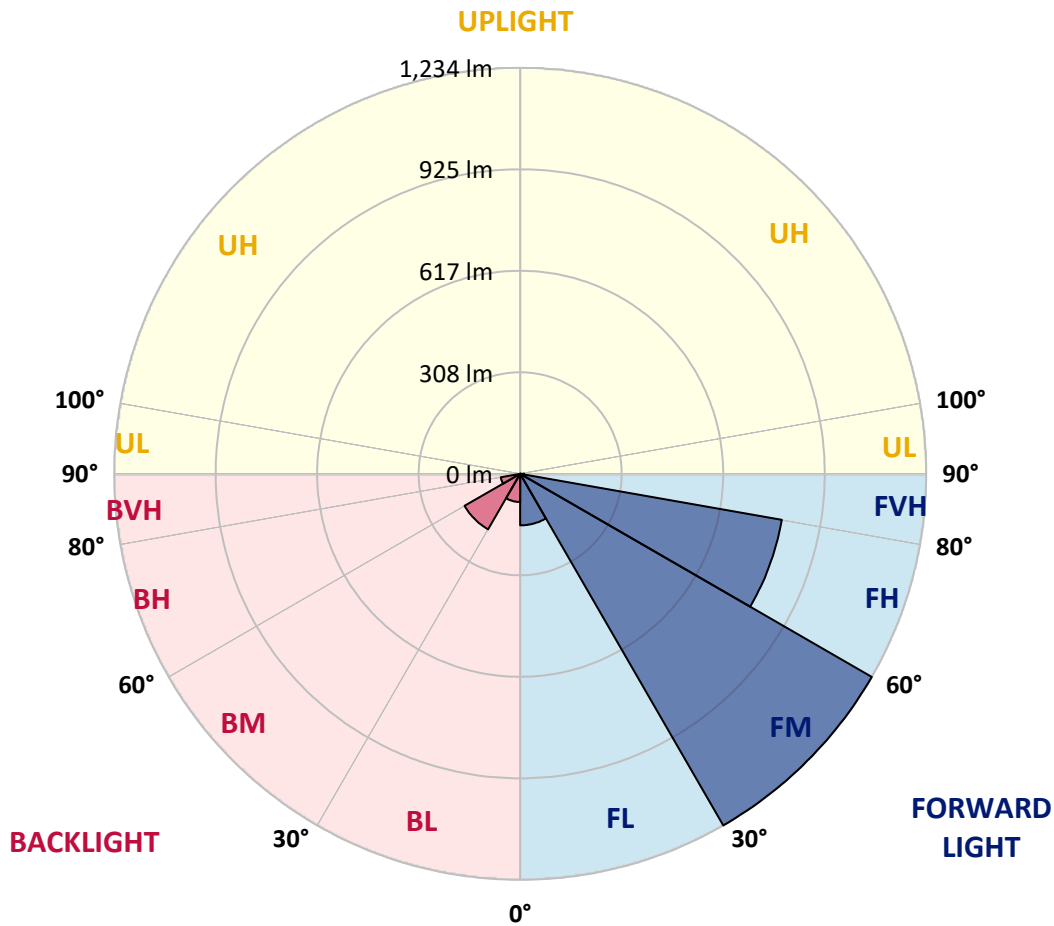
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	156.6	6.1			
FM (30°-60°)	1233.7	48.4			
FH (60°-80°)	807.3	31.7			G1/1800
FVH (80°-90°)	11.4	0.4			G1/100
BL (0°-30°)	85.6	3.4	B0/110		
BM (30°-60°)	195.0	7.6	B0/220		
BH (60°-80°)	59.8	2.3	B0/110		G0/110
BVH (80°-90°)	0.6	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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	296.6	296.6	296.6	296.6	296.6	296.6	296.6	296.6	296.6	296.6
2.5°	295.6	297.6	297.1	296.6	296.4	296.8	296.9	296.8	296.8	296.8
5°	289.9	291.6	291.6	292.8	294.5	296.6	298.1	298.5	298.8	299.3
7.5°	279.2	280.5	281.5	285.5	289.8	295.2	299.8	302.2	302.6	304.5
10°	271.8	273.5	275.2	279.3	285.5	293.7	301.5	307.4	308.2	312.7
12.5°	271.5	273.2	275.4	279.8	287.0	295.7	305.3	313.7	315.2	321.7
15°	275.1	277.1	279.2	284.6	292.3	302.9	313.2	323.6	325.1	334.4
17.5°	282.4	285.1	286.7	292.1	300.4	312.1	325.7	337.6	339.0	349.8
20°	296.9	300.2	300.7	305.1	313.2	325.8	341.9	356.8	358.5	370.8
22.5°	327.0	331.6	327.5	329.8	336.9	349.6	367.0	385.8	388.2	402.2
25°	380.0	386.5	375.9	372.1	375.2	388.4	410.3	434.0	436.8	448.0
27.5°	484.1	475.7	459.7	443.9	434.7	442.2	466.9	496.3	499.7	510.6
30°	598.5	591.1	569.4	534.5	512.7	511.5	534.2	567.0	571.0	581.4
32.5°	713.0	706.0	682.4	639.5	601.6	582.8	598.5	634.9	636.9	643.6
35°	825.7	818.5	794.9	751.0	704.3	661.6	658.5	699.5	700.2	707.2
37.5°	939.0	933.0	907.9	864.8	818.8	759.9	731.3	760.7	761.6	768.4
40°	1019.9	1022.4	1005.2	971.8	932.3	867.9	813.0	825.8	820.7	832.2
42.5°	1089.3	1094.4	1079.4	1062.6	1039.7	982.9	914.2	912.0	903.8	909.9
45°	1149.3	1153.5	1140.0	1136.1	1135.6	1095.8	1024.8	1011.5	1000.0	998.8
47.5°	1171.3	1179.5	1185.3	1198.5	1224.1	1207.4	1139.2	1118.5	1105.7	1096.3
50°	1179.7	1188.4	1208.2	1246.5	1307.2	1314.4	1253.0	1229.8	1214.1	1197.0
52.5°	1168.4	1184.0	1210.6	1275.1	1363.1	1400.2	1362.3	1341.9	1324.0	1296.1
55°	1101.9	1117.5	1172.0	1274.7	1391.0	1460.4	1465.5	1456.5	1436.3	1392.4
57.5°	961.7	984.8	1071.1	1231.3	1390.5	1512.2	1566.7	1573.2	1550.7	1487.7
60°	767.5	798.8	904.1	1135.1	1347.6	1540.2	1655.4	1687.9	1664.0	1581.8
62.5°	535.6	571.8	671.5	984.3	1249.4	1520.1	1720.2	1780.2	1762.1	1665.9
65°	326.7	338.3	418.6	774.6	1082.6	1435.6	1740.2	1830.1	1824.2	1717.3
67.5°	217.6	227.4	250.4	531.1	840.4	1266.9	1692.4	1821.4	1823.1	1708.9
70°	131.1	139.5	154.5	308.9	544.6	1002.8	1544.2	1710.3	1720.2	1597.0
72.5°	54.0	59.7	73.3	140.0	282.1	636.4	1229.6	1468.4	1491.5	1342.8
75°	30.6	33.5	43.1	70.3	122.4	296.6	744.8	1042.4	1076.4	925.5
77.5°	20.3	21.7	27.9	45.5	68.9	101.2	318.3	543.1	608.1	505.5
80°	13.7	14.9	19.1	30.4	44.8	43.4	101.4	201.2	247.5	173.7
82.5°	9.2	9.4	13.7	20.0	28.4	21.0	29.9	62.6	78.6	50.3
85°	5.3	5.1	10.1	11.6	12.7	8.7	9.1	18.8	24.6	21.2
87.5°	0.7	1.0	3.9	3.1	1.7	1.9	1.9	3.2	4.8	5.1
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°
296.6	0°	296.6	296.6	296.6	296.6	296.6	296.6	296.6	296.6	296.6	296.6
296.9	2.5°	296.9	296.8	296.2	295.7	294.5	293.9	294.2	293.9	293.7	293.9
299.2	5°	299.2	298.6	297.3	295.6	293.2	290.3	288.4	285.7	283.1	281.5
305.1	7.5°	305.1	304.6	302.7	298.0	290.3	278.1	267.0	257.3	249.9	245.6
314.7	10°	314.7	313.9	311.0	300.4	280.2	253.7	231.6	213.3	201.4	195.7
326.0	12.5°	326.0	325.0	319.8	298.1	261.0	219.7	189.2	168.9	157.8	152.8
339.0	15°	339.3	338.0	327.9	287.5	233.2	182.1	154.2	139.0	131.8	127.4
355.6	17.5°	355.9	353.5	333.9	271.6	202.9	153.3	132.7	121.2	114.9	110.6
377.3	20°	377.4	373.5	338.6	252.7	175.0	135.2	118.1	108.6	103.8	100.0
408.0	22.5°	407.5	401.9	344.5	232.1	155.4	122.7	107.4	100.3	96.4	92.1
451.0	25°	444.8	438.1	351.6	213.2	141.9	112.0	99.5	93.7	89.1	84.1
507.2	27.5°	496.9	485.0	360.2	197.6	130.3	102.7	92.3	85.8	80.5	76.4
571.0	30°	555.1	535.4	367.7	188.2	119.7	94.2	82.9	76.4	71.5	68.5
628.2	32.5°	610.1	583.4	372.7	184.1	110.1	84.4	72.7	65.6	61.9	61.0
684.3	35°	662.1	626.9	372.1	180.2	101.5	74.7	62.6	55.4	52.5	53.0
744.6	37.5°	721.9	673.2	368.6	174.0	94.5	65.8	53.8	47.5	45.0	45.1
818.0	40°	791.5	726.7	366.3	162.4	86.8	57.6	46.7	41.5	39.7	39.0
895.2	42.5°	865.7	778.5	366.7	149.2	77.3	50.3	41.7	37.4	35.7	35.2
981.2	45°	940.2	827.9	367.2	135.6	67.2	44.6	38.1	34.5	33.5	32.8
1068.4	47.5°	1010.3	869.9	357.6	120.9	57.3	40.3	35.2	32.8	32.0	31.1
1155.9	50°	1075.6	898.0	334.5	103.8	49.4	36.9	33.0	31.3	30.4	29.6
1235.3	52.5°	1126.4	902.4	296.4	86.2	43.9	34.4	31.6	30.1	29.1	28.2
1299.4	55°	1148.9	874.6	242.2	69.7	39.7	32.1	30.3	28.7	27.5	26.7
1349.8	57.5°	1143.1	815.9	188.9	56.1	35.6	29.9	28.5	27.5	26.2	24.8
1390.6	60°	1114.6	737.5	142.4	46.7	31.8	27.5	26.7	25.8	23.9	21.9
1406.4	62.5°	1065.2	638.8	101.5	38.6	27.7	24.8	24.4	23.8	21.0	17.3
1383.1	65°	989.6	519.0	68.4	32.1	23.8	21.7	21.9	20.7	17.1	12.8
1298.0	67.5°	879.2	379.5	43.8	26.3	19.8	18.1	18.3	17.6	14.5	10.9
1136.6	70°	738.5	251.3	28.5	20.0	15.9	14.0	15.0	15.2	12.3	8.9
872.3	72.5°	541.4	148.4	20.0	14.9	11.6	9.7	12.3	12.7	9.9	6.7
524.8	75°	308.6	70.4	15.0	10.8	7.2	6.8	9.6	9.6	6.8	4.4
227.2	77.5°	129.6	29.4	10.6	7.0	4.1	3.9	6.5	6.0	3.4	2.1
55.4	80°	37.4	13.2	5.6	3.4	1.7	1.5	2.6	1.9	0.9	0.3
21.0	82.5°	14.7	5.8	2.2	1.4	0.7	0.7	0.3	0.0	0.0	0.0
12.0	85°	8.7	2.4	1.0	0.5	0.2	0.0	0.0	0.0	0.0	0.0
2.6	87.5°	2.2	0.5	0.3	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>
296.6
294.5
281.9
245.8
195.2
152.3
127.5
110.3
99.3
91.5
83.6
75.6
68.0
61.5
53.0
45.8
38.8
35.0
32.8
31.1
29.6
28.0
26.5
24.6
21.5
16.9
12.5
10.4
8.5
6.3
4.1
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