

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: P944983

Luminaire Tested: **GALN-SB1A-827-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944983
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
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-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3878 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

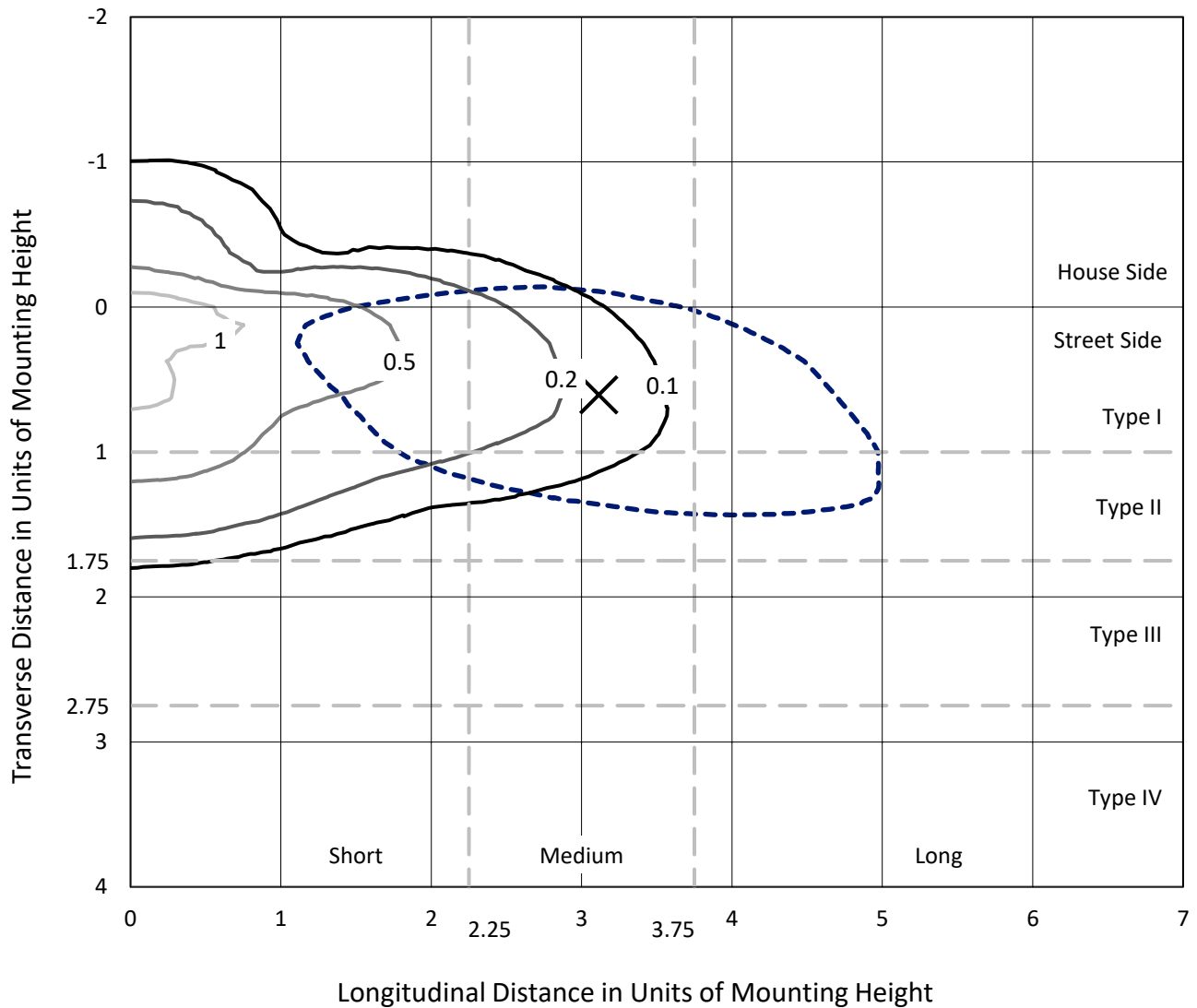
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

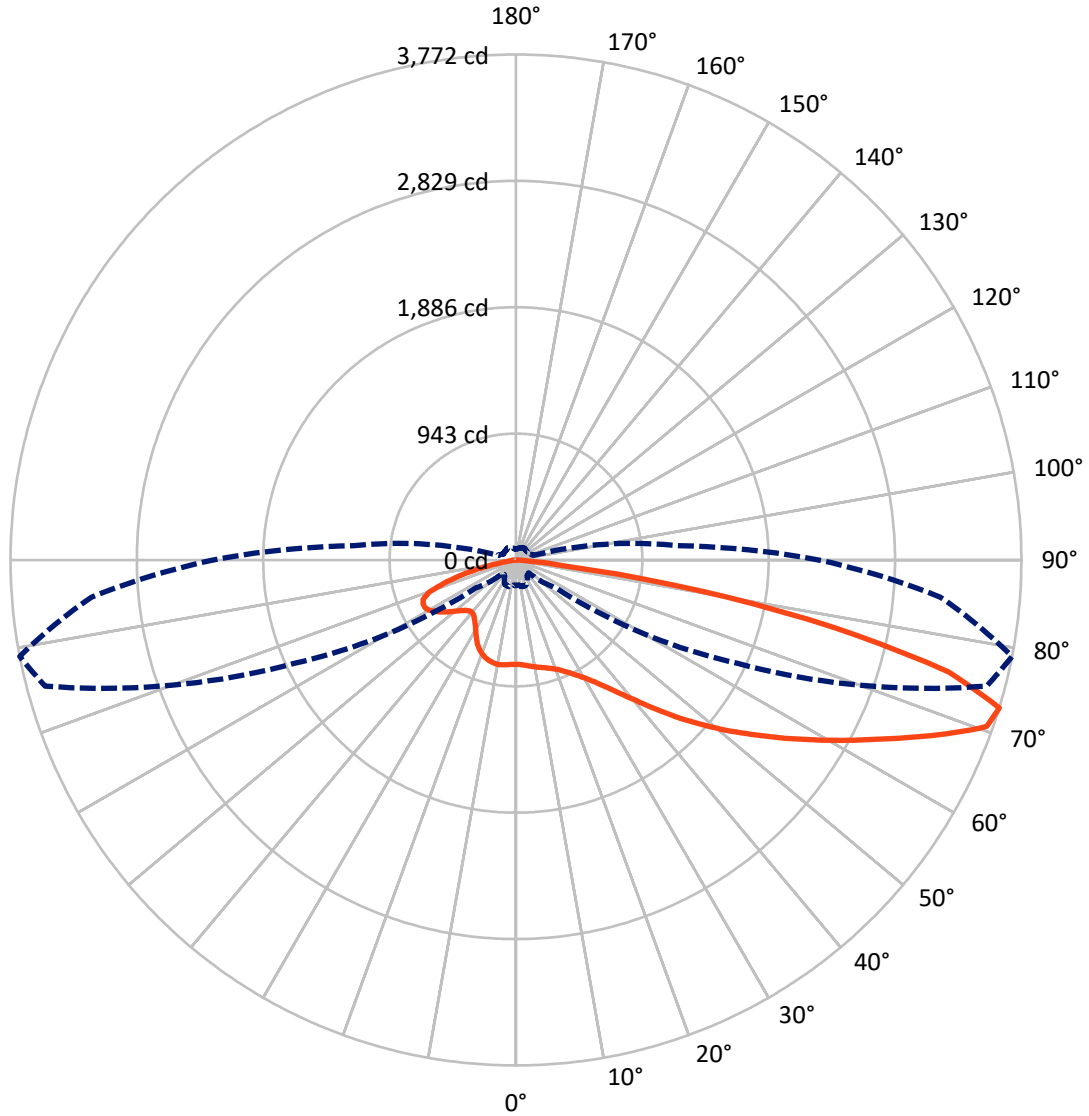
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	853.4	0.0	853.4
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	3024.6	0.0	3024.6
	% Fixture	78.0	0.0	78.0
Total	Lumens	3878.0	0.0	3878.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.7	1.8
10°-20°	184.7	4.8
20°-30°	298.1	7.7
30°-40°	447.4	11.5
40°-50°	634.7	16.4
50°-60°	801.5	20.7
60°-70°	814.1	21.0
70°-80°	554.8	14.3
80°-90°	72.0	1.9
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°	3878.0	100.0
0°-180°	3878.0	100.0

Coefficient of Utilization

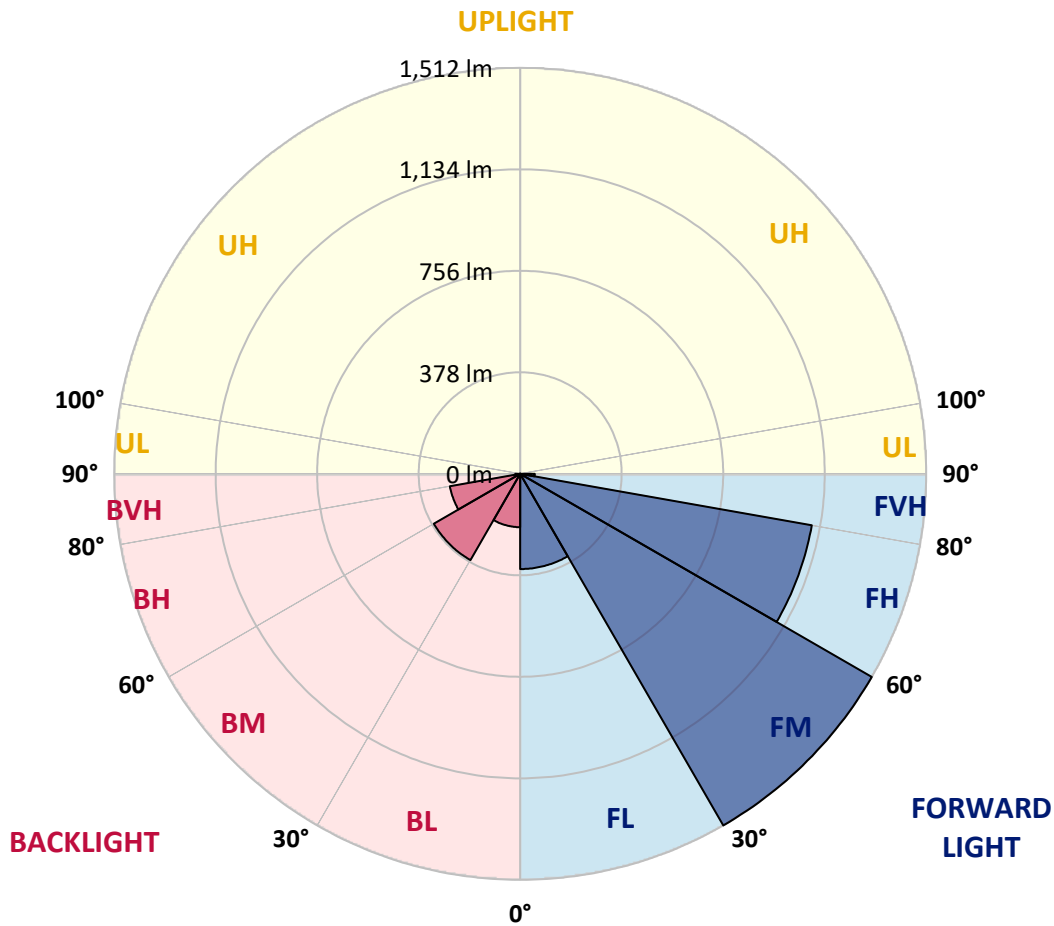


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	354.7	9.1			
FM (30°-60°)	1512.5	39.0			
FH (60°-80°)	1103.2	28.4			G1/1800
FVH (80°-90°)	54.2	1.4			G1/100
BL (0°-30°)	198.8	5.1	B1/500		
BM (30°-60°)	371.1	9.6	B1/1000		
BH (60°-80°)	265.7	6.9	B1/500		G1/500
BVH (80°-90°)	17.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	778.5	778.5	778.5	778.5	778.5	778.5	778.5	778.5	778.5	778.5
2.5°	778.9	775.2	777.4	776.6	777.7	778.9	779.3	779.9	782.0	781.8
5°	777.2	773.5	776.6	775.6	778.3	781.1	783.6	785.9	789.1	790.6
7.5°	773.8	771.3	774.4	777.4	782.4	786.7	790.2	795.3	800.0	800.8
10°	753.4	751.6	758.8	766.8	780.3	792.0	799.6	805.5	810.7	811.5
12.5°	732.3	730.1	738.1	748.9	770.9	792.0	808.0	815.8	820.3	823.0
15°	728.8	727.0	731.5	740.9	759.2	786.5	813.8	828.1	832.0	835.1
17.5°	745.7	742.2	744.0	747.3	758.0	781.3	818.3	842.1	848.0	851.3
20°	784.6	779.7	776.8	770.3	768.4	782.2	817.9	858.9	866.7	870.8
22.5°	836.5	833.2	827.1	810.5	792.4	792.2	825.7	880.4	895.0	898.9
25°	899.3	894.4	886.6	864.0	829.3	812.1	838.8	907.9	932.3	933.3
27.5°	971.5	964.1	953.4	923.7	876.9	843.3	858.9	939.5	975.2	974.8
30°	1047.6	1040.2	1028.9	992.8	934.0	885.3	886.8	973.6	1026.1	1023.8
32.5°	1103.2	1097.7	1095.4	1067.5	999.6	935.0	918.8	1011.3	1088.8	1086.8
35°	1145.9	1138.7	1141.3	1127.2	1071.2	990.6	958.0	1056.2	1165.1	1164.9
37.5°	1188.1	1181.8	1184.0	1174.6	1137.5	1061.1	1005.8	1111.2	1259.7	1264.2
40°	1226.7	1219.9	1228.9	1220.1	1188.9	1136.2	1060.1	1173.3	1369.2	1377.9
42.5°	1249.9	1244.5	1259.5	1259.7	1233.7	1199.6	1119.8	1241.9	1496.0	1515.3
45°	1257.9	1256.0	1278.6	1283.3	1273.2	1236.3	1173.6	1316.5	1632.6	1667.1
47.5°	1249.2	1245.8	1276.9	1294.4	1302.4	1253.6	1218.1	1397.4	1772.1	1822.6
50°	1205.8	1199.0	1245.3	1282.1	1310.6	1264.8	1263.0	1490.7	1930.7	1985.9
52.5°	1127.6	1122.5	1175.2	1239.0	1292.5	1270.4	1313.5	1592.6	2081.3	2152.6
55°	1027.7	1020.9	1079.0	1162.3	1247.6	1268.5	1363.9	1706.7	2258.9	2331.3
57.5°	869.3	855.8	929.2	1027.7	1174.4	1266.3	1416.4	1820.1	2439.4	2526.2
60°	638.4	618.3	708.3	825.0	1031.2	1244.3	1481.5	1947.3	2656.0	2734.2
62.5°	371.7	360.0	418.9	527.8	777.2	1115.1	1518.0	2095.2	2869.0	2951.0
65°	288.6	285.3	290.5	298.9	432.6	834.9	1405.4	2239.4	3139.7	3197.2
67.5°	264.0	261.5	263.8	248.0	219.5	465.0	1111.8	2275.9	3429.8	3464.7
70°	234.7	231.8	239.2	225.6	172.7	211.5	718.4	2143.4	3660.6	3726.0
72.5°	191.2	187.9	205.1	199.0	145.4	135.8	360.8	1828.5	3636.4	3772.2
75°	146.9	145.0	165.5	170.7	118.6	106.9	173.1	1359.2	3200.0	3336.9
77.5°	114.1	112.6	123.1	141.7	95.6	82.9	106.5	862.2	2411.5	2435.5
80°	85.5	81.4	91.1	109.7	74.5	60.5	72.2	502.8	1524.3	1381.8
82.5°	53.5	51.5	59.5	73.2	52.5	41.6	47.0	277.7	610.9	359.8
85°	30.6	29.7	32.4	41.8	28.5	24.0	26.9	122.7	111.6	76.7
87.5°	12.3	11.9	14.8	18.7	10.5	8.8	9.4	29.5	24.6	22.8
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°
778.5	0°	778.5	778.5	778.5	778.5	778.5	778.5	778.5	778.5	778.5	778.5
781.5	2.5°	780.7	780.7	777.9	773.3	768.2	764.9	759.6	758.2	752.6	751.0
788.5	5°	790.2	788.5	779.7	767.0	749.5	733.5	715.9	704.8	689.2	683.7
802.3	7.5°	802.1	797.5	782.4	754.5	718.0	682.1	644.7	616.4	589.3	579.7
813.5	10°	812.9	806.6	780.7	731.9	668.7	606.6	547.1	505.4	473.9	460.9
826.1	12.5°	823.8	812.1	769.9	694.4	598.8	514.5	451.1	418.7	399.2	383.6
836.3	15°	834.1	817.7	753.0	644.1	522.1	436.5	389.7	363.9	348.3	338.1
851.3	17.5°	846.0	822.4	727.8	580.3	449.0	382.6	344.4	328.8	325.7	324.5
871.8	20°	862.6	826.7	694.6	508.9	395.3	339.5	319.8	318.4	318.2	317.5
896.4	22.5°	880.4	831.8	650.7	444.1	349.5	312.6	309.1	306.3	304.4	304.2
926.2	25°	901.6	833.4	595.7	391.0	310.6	299.9	295.8	291.5	290.3	290.3
960.0	27.5°	922.1	827.9	531.7	344.8	288.6	288.2	282.9	281.4	281.2	281.8
998.6	30°	942.6	817.4	468.1	302.2	275.9	275.9	274.1	275.1	275.9	278.0
1051.5	32.5°	970.3	806.4	415.0	270.6	264.8	262.8	264.6	266.7	267.5	270.2
1121.0	35°	1010.9	798.6	372.7	253.3	253.3	250.7	251.7	251.3	249.4	248.2
1205.1	37.5°	1064.6	798.2	337.9	245.3	243.7	243.3	243.5	240.8	233.6	225.0
1306.9	40°	1129.2	809.2	311.0	239.8	238.6	241.0	239.8	232.6	212.9	198.0
1432.0	42.5°	1216.0	840.8	293.7	233.0	236.7	239.8	234.9	210.1	196.7	186.7
1574.6	45°	1318.2	892.1	284.9	225.8	233.2	236.9	213.1	202.3	191.6	179.5
1730.1	47.5°	1433.9	956.7	282.9	219.1	225.4	227.7	203.9	199.0	186.9	173.7
1886.4	50°	1559.8	1033.2	288.4	211.1	214.2	206.4	200.8	196.3	183.8	170.9
2046.6	52.5°	1690.1	1117.6	299.5	200.2	202.9	194.3	199.6	195.7	182.0	164.5
2212.1	55°	1818.1	1202.5	310.2	187.5	191.4	183.4	196.1	193.2	173.5	153.8
2388.7	57.5°	1948.1	1287.0	320.6	176.2	180.3	172.9	190.6	186.7	164.1	144.0
2581.6	60°	2083.3	1369.0	325.5	165.3	168.2	163.3	182.2	175.4	153.4	134.0
2771.1	62.5°	2209.9	1437.4	317.5	154.5	156.3	154.3	171.1	162.1	142.8	122.7
2968.7	65°	2336.9	1478.0	292.9	143.8	144.2	143.2	155.5	147.7	130.3	112.8
3141.6	67.5°	2451.9	1500.7	253.7	132.3	131.3	130.9	140.9	132.1	118.2	103.0
3273.1	70°	2476.3	1442.9	193.8	118.8	118.8	117.7	124.9	115.9	104.8	92.5
3178.9	72.5°	2261.8	1213.8	137.6	103.4	105.0	103.0	108.9	101.3	91.3	83.1
2739.7	75°	1823.8	890.1	100.1	87.6	90.5	87.0	92.5	87.2	78.6	78.4
1888.0	77.5°	1253.1	550.4	72.6	72.2	74.3	69.7	76.1	73.2	65.4	61.9
821.8	80°	534.8	219.5	52.9	55.8	55.8	51.7	59.1	59.9	53.1	51.5
158.6	82.5°	106.5	62.4	37.1	38.4	36.1	34.9	41.8	46.4	64.0	71.2
47.8	85°	32.0	23.0	22.4	20.9	18.5	18.7	24.6	46.6	57.4	32.8
15.8	87.5°	8.8	5.7	5.9	4.7	3.9	5.1	8.4	35.3	19.3	8.2
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>
778.5
753.7
687.8
580.9
463.8
388.7
339.9
325.3
319.6
306.5
291.5
283.5
279.4
272.4
251.1
225.2
197.5
186.3
178.7
172.7
169.4
163.3
152.8
143.6
133.3
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111.6
101.7
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58.1
51.5
71.4
28.3
7.0
0.0

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