

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: P939005

Luminaire Tested: **GALN-SB1B-927-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939005
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
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-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3397 lumens
Efficiency: N/A
Efficacy: 85.4 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

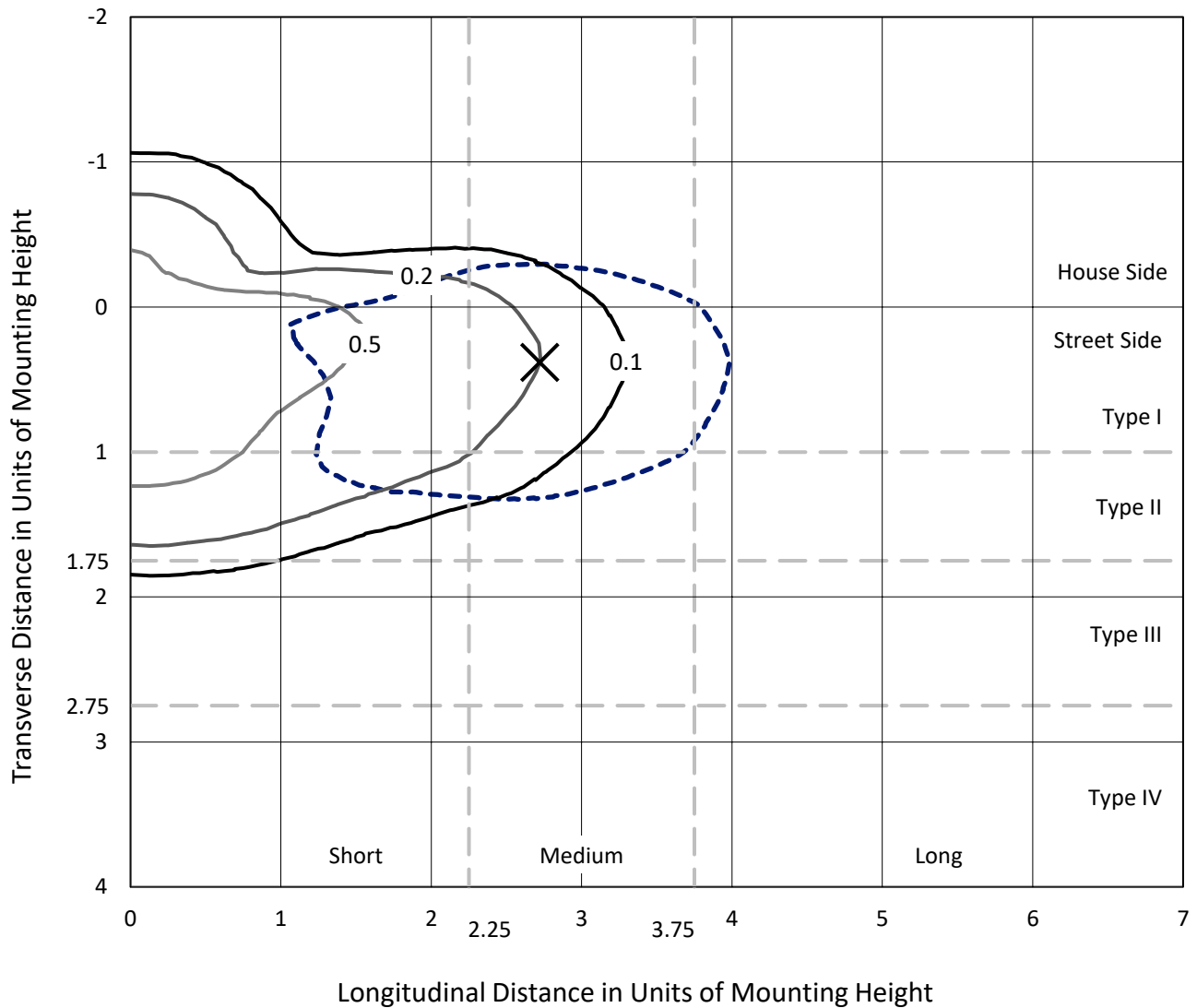
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

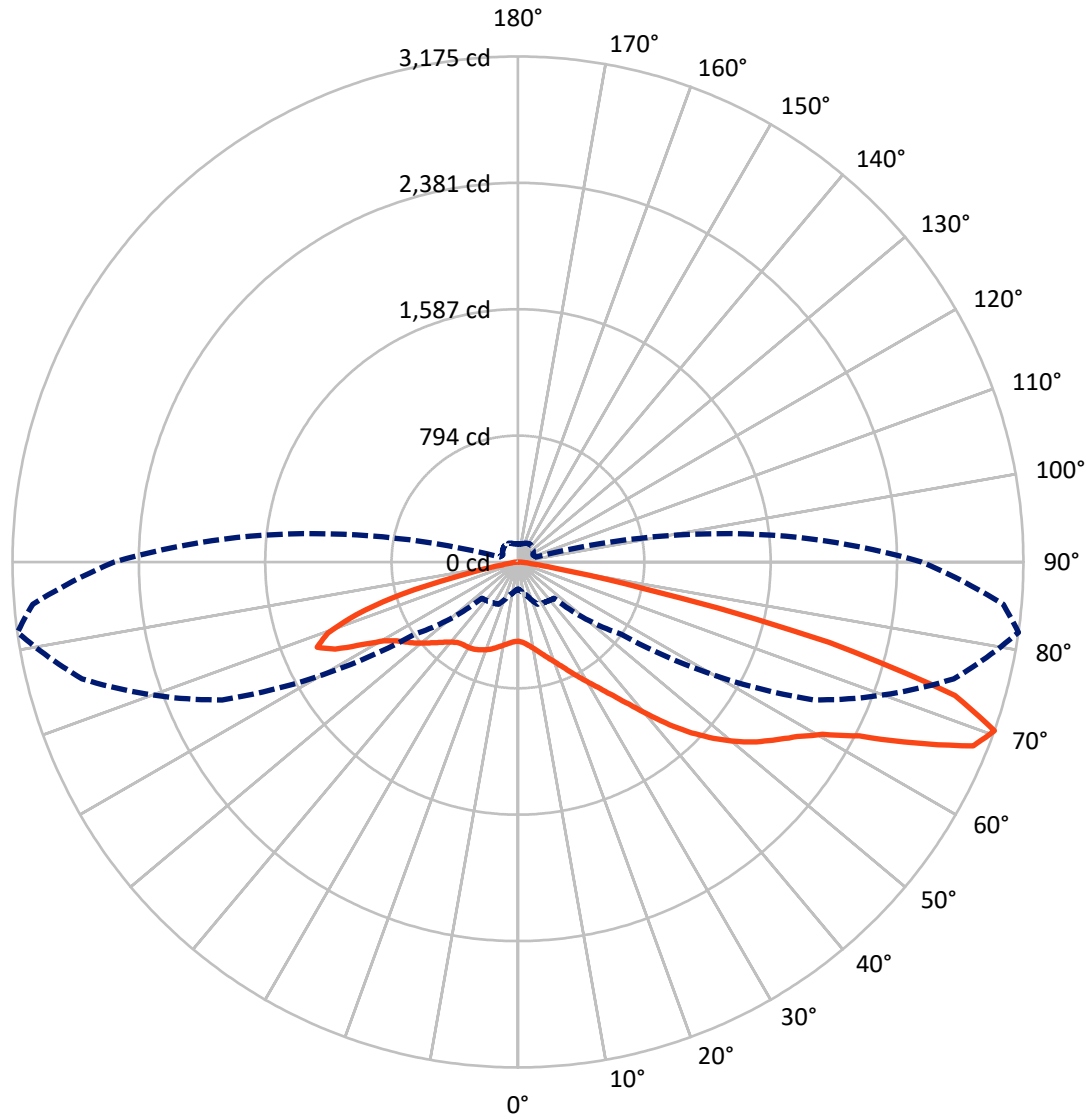
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	837.4	0.0	837.4
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	2559.6	0.0	2559.6
	% Fixture	75.3	0.0	75.3
Total	Lumens	3397.0	0.0	3397.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.0	1.4
10°-20°	135.1	4.0
20°-30°	226.0	6.7
30°-40°	353.1	10.4
40°-50°	562.3	16.6
50°-60°	782.6	23.0
60°-70°	818.6	24.1
70°-80°	427.8	12.6
80°-90°	44.4	1.3
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°	3397.0	100.0
0°-180°	3397.0	100.0

Coefficient of Utilization



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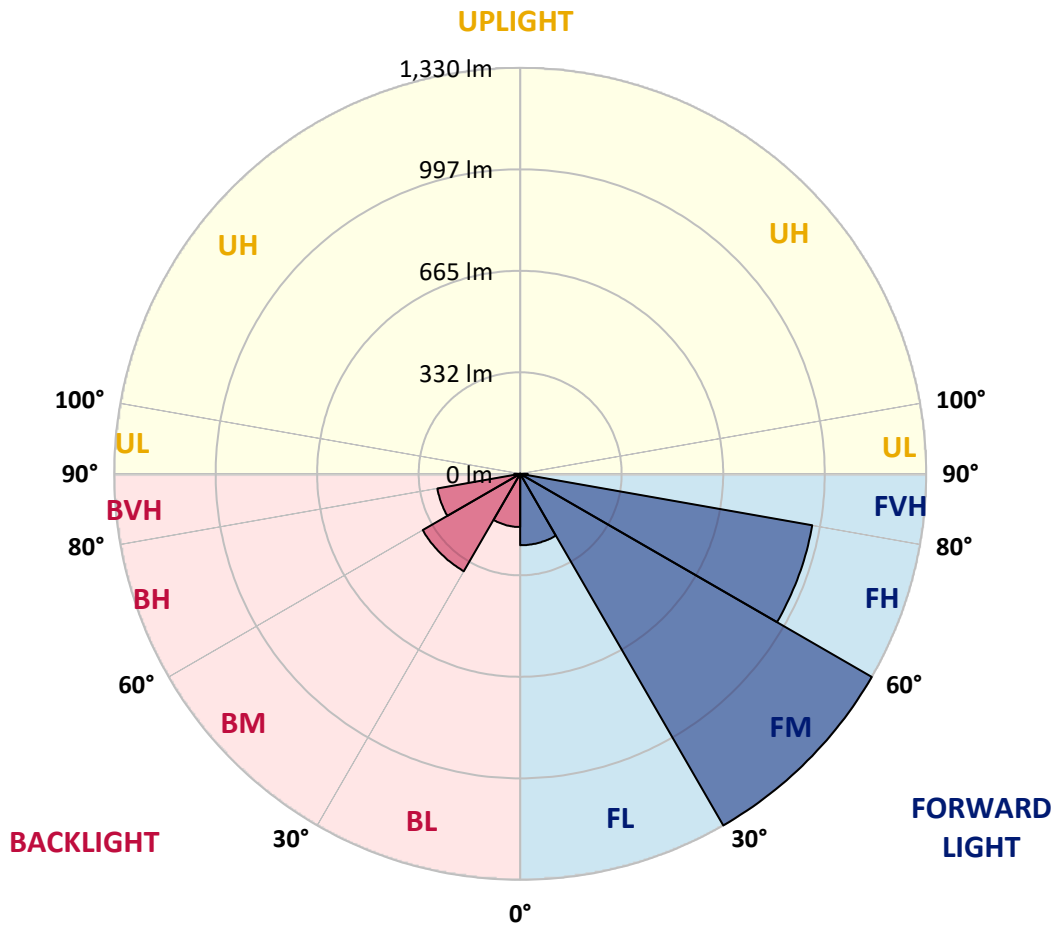
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	233.9	6.9			
FM (30°-60°)	1329.6	39.1			
FH (60°-80°)	971.2	28.6			G1/1800
FVH (80°-90°)	24.9	0.7			G1/100
BL (0°-30°)	174.2	5.1	B1/500		
BM (30°-60°)	368.4	10.8	B1/1000		
BH (60°-80°)	275.2	8.1	B1/500		G1/500
BVH (80°-90°)	19.6	0.6			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°	82°
0°	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0
2.5°	509.9	512.8	511.9	511.0	511.0	509.8	509.6	507.8	506.3	504.0
5°	516.4	519.5	519.1	519.9	522.2	522.7	523.3	522.2	519.3	516.4
7.5°	510.7	514.1	515.2	519.5	526.7	533.2	538.1	540.0	537.3	533.2
10°	491.2	495.0	498.8	509.0	521.8	537.2	550.1	557.9	557.3	553.4
12.5°	451.7	455.7	463.8	483.8	507.2	534.3	558.4	574.7	580.2	577.4
15°	420.2	423.6	429.7	450.3	480.7	521.8	561.5	593.0	607.3	605.7
17.5°	419.3	420.7	424.5	434.2	457.7	502.4	558.2	611.1	638.3	638.1
20°	435.1	435.7	437.8	439.8	453.2	487.6	550.0	626.0	673.1	673.1
22.5°	457.1	456.8	458.9	457.1	463.6	486.3	544.7	639.2	711.8	714.7
25°	490.1	488.3	487.8	483.6	484.9	498.0	550.5	654.1	757.8	763.7
27.5°	534.1	531.2	529.2	519.7	516.4	522.2	568.2	672.2	809.0	819.3
30°	591.4	586.2	583.3	566.7	555.0	555.9	594.8	696.1	862.5	879.1
32.5°	669.6	661.5	653.8	626.6	605.1	598.1	629.3	729.3	920.6	947.1
35°	757.2	750.8	742.5	700.5	667.5	651.3	675.8	775.6	988.5	1030.5
37.5°	841.6	836.0	840.0	783.4	740.8	717.2	736.7	837.8	1072.3	1134.3
40°	928.9	924.5	925.1	871.0	821.4	794.9	810.6	915.9	1168.4	1257.8
42.5°	1023.7	1020.4	1009.6	961.7	906.0	881.3	895.7	1006.0	1271.5	1398.4
45°	1129.8	1127.9	1117.8	1062.8	999.0	971.2	990.7	1105.5	1375.2	1530.7
47.5°	1221.6	1223.2	1221.9	1175.6	1109.5	1068.7	1092.0	1209.3	1471.6	1655.1
50°	1265.7	1274.2	1286.7	1272.2	1231.1	1189.7	1194.2	1309.5	1563.5	1771.7
52.5°	1242.7	1258.7	1292.6	1315.7	1331.5	1322.9	1310.8	1409.0	1650.0	1877.0
55°	1156.7	1179.2	1235.5	1291.2	1372.1	1435.0	1450.9	1519.4	1734.4	1969.6
57.5°	1000.1	1036.6	1087.1	1199.8	1336.0	1489.3	1614.2	1672.4	1823.8	2068.6
60°	731.5	780.5	843.2	1010.9	1209.9	1460.2	1753.2	1907.5	1950.9	2196.8
62.5°	468.1	498.4	556.1	714.0	942.7	1311.5	1795.7	2201.3	2166.3	2406.9
65°	320.5	340.0	392.8	481.5	609.4	976.3	1681.8	2421.5	2508.4	2740.0
67.5°	232.9	247.7	292.7	370.4	397.1	577.7	1305.0	2411.4	2841.0	3083.3
70°	169.8	180.3	218.1	292.7	305.5	321.4	790.6	2049.9	2833.8	3174.5
72.5°	125.8	133.0	158.4	227.1	247.3	217.0	391.3	1489.8	2435.1	2871.3
75°	91.0	96.4	115.2	173.8	197.9	165.3	195.2	870.6	1698.5	2019.7
77.5°	69.6	73.7	86.0	127.3	158.4	124.0	121.1	400.5	805.4	809.3
80°	55.9	58.6	65.3	89.6	121.5	92.8	79.0	161.7	254.5	215.4
82.5°	41.1	45.6	55.2	62.9	86.9	64.0	48.1	81.7	96.8	83.3
85°	23.4	26.5	33.3	45.1	55.5	39.1	27.6	36.2	45.1	37.0
87.5°	8.3	10.8	11.7	17.7	24.2	16.2	10.6	10.5	14.8	11.0
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°
498.0	0°	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0
503.5	2.5°	501.6	500.7	497.1	492.3	487.2	482.4	480.7	477.3	475.0	473.7
515.2	5°	511.7	508.9	500.4	489.6	478.2	466.0	457.3	449.4	443.6	438.2
531.2	7.5°	526.2	521.1	506.5	487.6	467.4	447.0	431.9	420.4	412.6	407.6
550.0	10°	542.9	535.2	512.8	484.5	453.3	424.1	406.3	396.4	391.5	388.8
571.4	12.5°	562.2	551.2	519.3	477.5	431.9	398.5	386.3	383.4	383.6	383.8
598.4	15°	586.0	570.7	524.5	462.2	403.9	378.9	376.7	381.4	386.3	388.6
629.1	17.5°	612.9	591.2	525.4	436.9	376.6	366.3	373.1	383.2	390.6	393.9
663.3	20°	641.7	612.1	519.0	401.2	354.0	356.0	368.3	381.2	389.3	393.5
702.5	22.5°	674.7	634.5	503.5	363.8	335.6	344.8	359.2	371.9	380.3	384.5
748.4	25°	712.4	659.6	479.1	332.2	319.8	332.2	346.6	357.1	363.9	367.7
799.8	27.5°	754.2	685.7	446.7	307.2	305.9	319.2	331.1	339.2	342.8	345.7
854.4	30°	796.2	709.5	407.4	288.2	293.8	306.4	314.9	318.5	319.6	320.1
915.3	32.5°	841.6	730.0	366.1	272.5	282.3	294.0	299.0	300.7	295.6	292.2
989.2	35°	896.6	752.0	325.7	260.1	270.9	281.0	282.6	281.2	275.2	268.2
1081.9	37.5°	964.5	779.4	293.5	251.3	260.3	267.0	265.0	264.6	265.2	256.9
1193.3	40°	1047.8	815.1	269.8	244.4	251.6	253.1	247.5	250.6	253.3	240.6
1315.5	42.5°	1140.3	858.2	254.9	239.7	244.4	241.0	232.3	235.8	235.4	218.8
1438.2	45°	1234.6	905.1	249.7	236.3	237.8	230.9	221.4	222.3	214.7	199.7
1556.0	47.5°	1328.3	955.3	252.9	233.4	229.5	221.7	214.3	210.4	199.2	188.0
1668.8	50°	1420.2	1008.2	264.8	227.7	218.1	213.6	208.2	201.2	189.3	179.7
1775.5	52.5°	1505.5	1061.3	278.1	218.1	203.9	206.6	203.1	195.0	183.3	173.6
1876.4	55°	1586.2	1114.5	283.4	204.9	190.5	200.4	198.5	183.5	169.4	161.5
1982.1	57.5°	1674.2	1178.5	277.6	188.2	179.7	193.4	185.8	169.3	161.1	155.2
2119.6	60°	1796.1	1278.9	265.2	167.5	169.4	183.0	170.0	163.1	154.3	147.6
2325.8	62.5°	1998.5	1466.2	245.1	146.9	157.4	167.5	162.4	155.6	146.5	140.1
2678.4	65°	2297.7	1726.5	207.5	130.9	143.8	152.3	154.3	147.4	138.1	131.2
2987.4	67.5°	2550.1	1889.8	157.0	117.5	130.0	140.1	145.6	139.0	129.1	122.4
3059.6	70°	2536.2	1771.2	119.9	104.4	117.7	128.0	135.2	130.0	119.3	113.0
2779.2	72.5°	2252.6	1481.7	97.0	91.0	105.3	115.4	124.0	120.0	109.2	103.1
2036.0	75°	1654.9	1051.8	77.5	77.5	89.8	102.2	111.8	109.2	99.3	95.0
854.8	77.5°	697.6	441.3	60.7	64.4	74.6	87.8	99.7	100.6	91.9	97.3
226.0	80°	185.5	121.7	46.3	50.7	58.6	72.5	86.7	86.3	77.0	71.9
84.0	82.5°	70.7	47.9	33.0	35.7	42.4	55.5	68.7	70.8	61.5	53.2
33.0	85°	27.2	20.5	20.4	21.5	24.7	36.8	51.9	53.7	46.3	39.3
9.2	87.5°	7.0	6.1	7.6	7.2	11.4	19.6	29.7	30.8	28.3	16.4
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°
498.0
475.2
440.4
408.6
389.5
384.1
388.4
394.6
394.6
385.6
368.8
346.8
321.4
293.3
268.6
257.4
241.0
218.6
200.3
188.0
179.0
173.8
160.8
154.7
147.3
140.1
131.6
122.6
113.6
103.1
93.7
88.3
66.9
53.2
40.6
23.4
0.0

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