

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: P945018

Luminaire Tested: **GALN-SB1A-830-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945018
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-830-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4024 lumens
Efficiency: N/A
Efficacy: 130.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

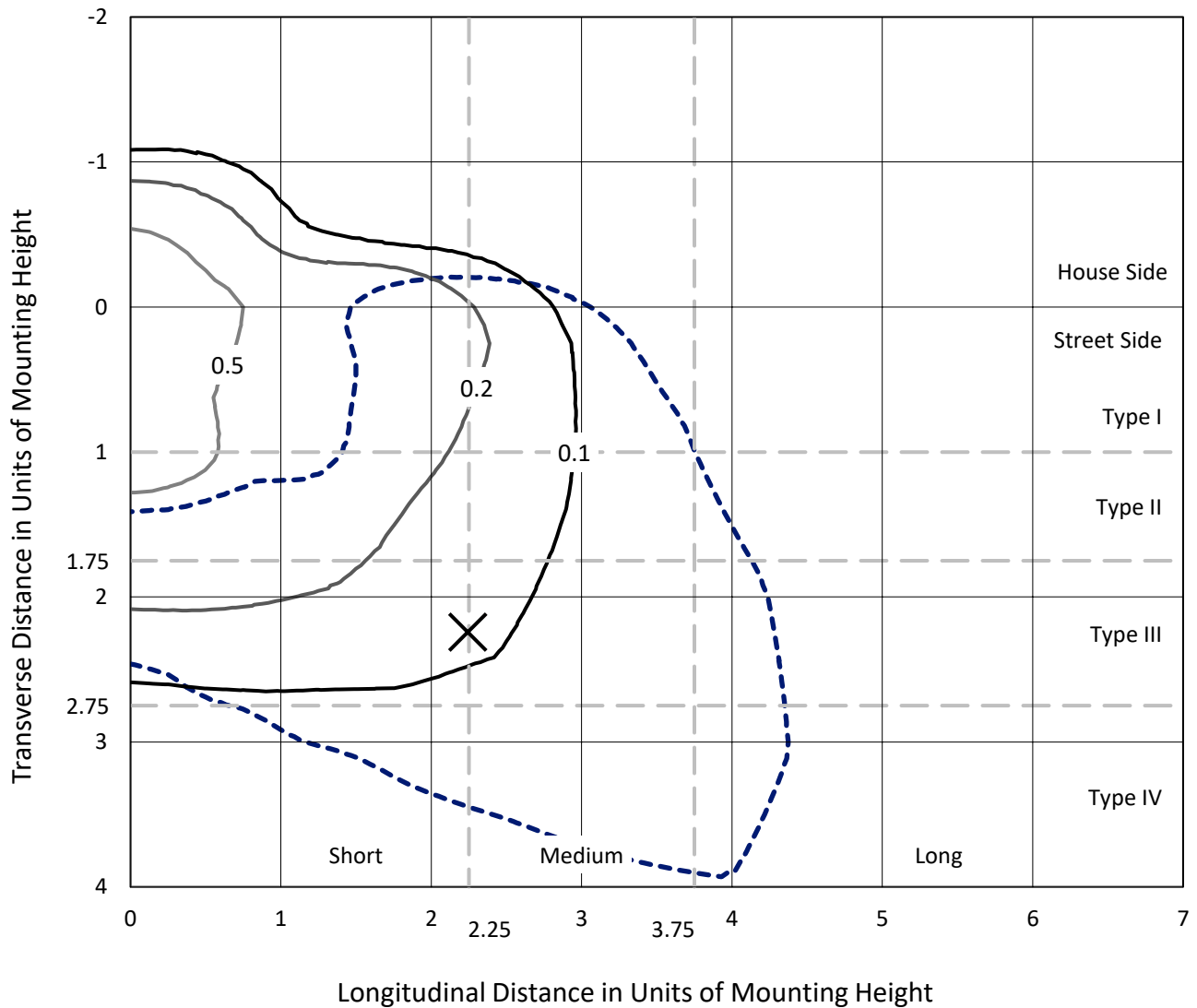
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

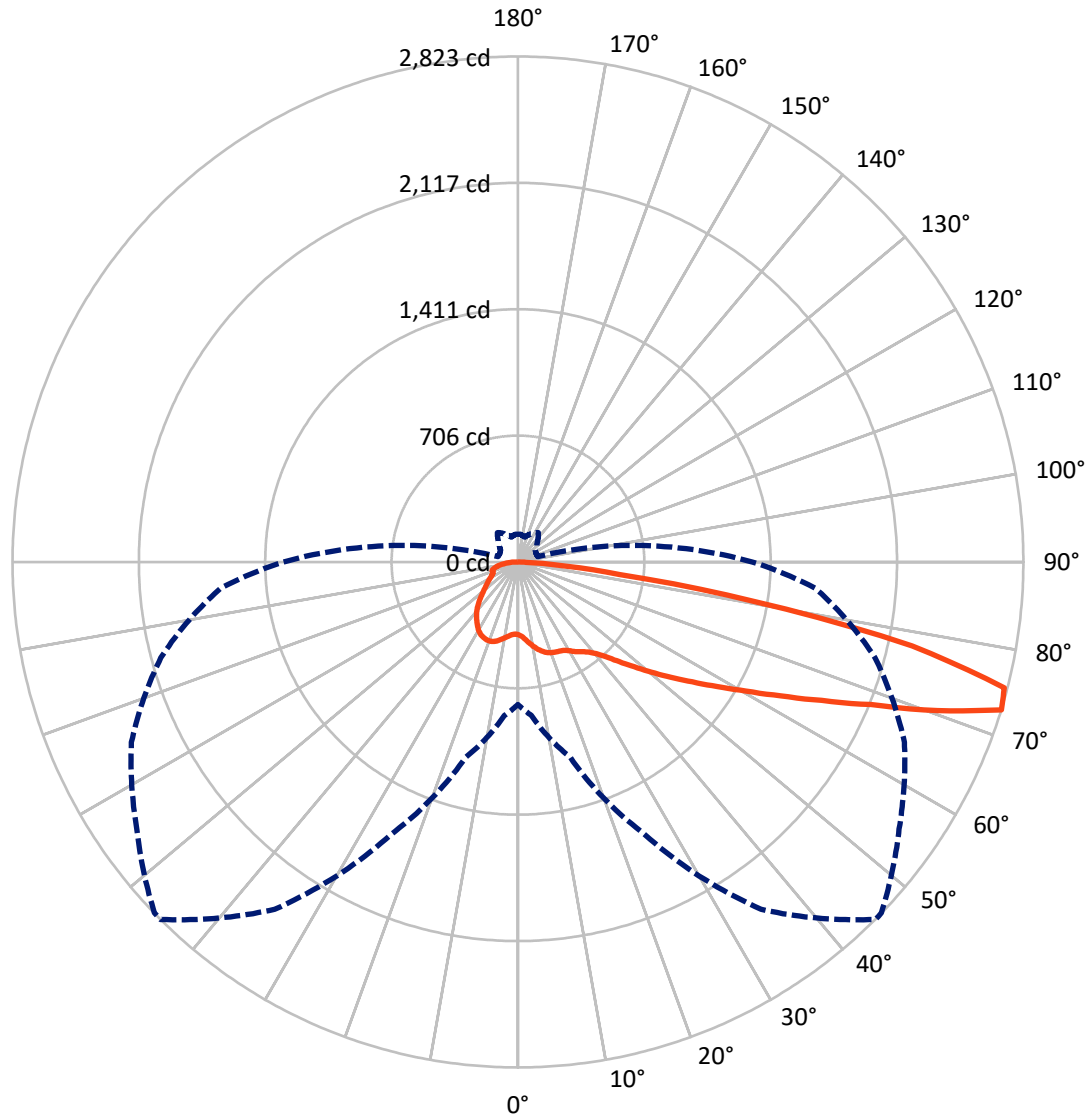
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	909.7	0.0	909.7
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	3114.3	0.0	3114.3
	% Fixture	77.4	0.0	77.4
Total	Lumens	4024.0	0.0	4024.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.3	1.0
10°-20°	137.8	3.4
20°-30°	239.6	6.0
30°-40°	343.5	8.5
40°-50°	483.7	12.0
50°-60°	740.9	18.4
60°-70°	1073.3	26.7
70°-80°	857.1	21.3
80°-90°	106.7	2.7
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°	4024.0	100.0
0°-180°	4024.0	100.0



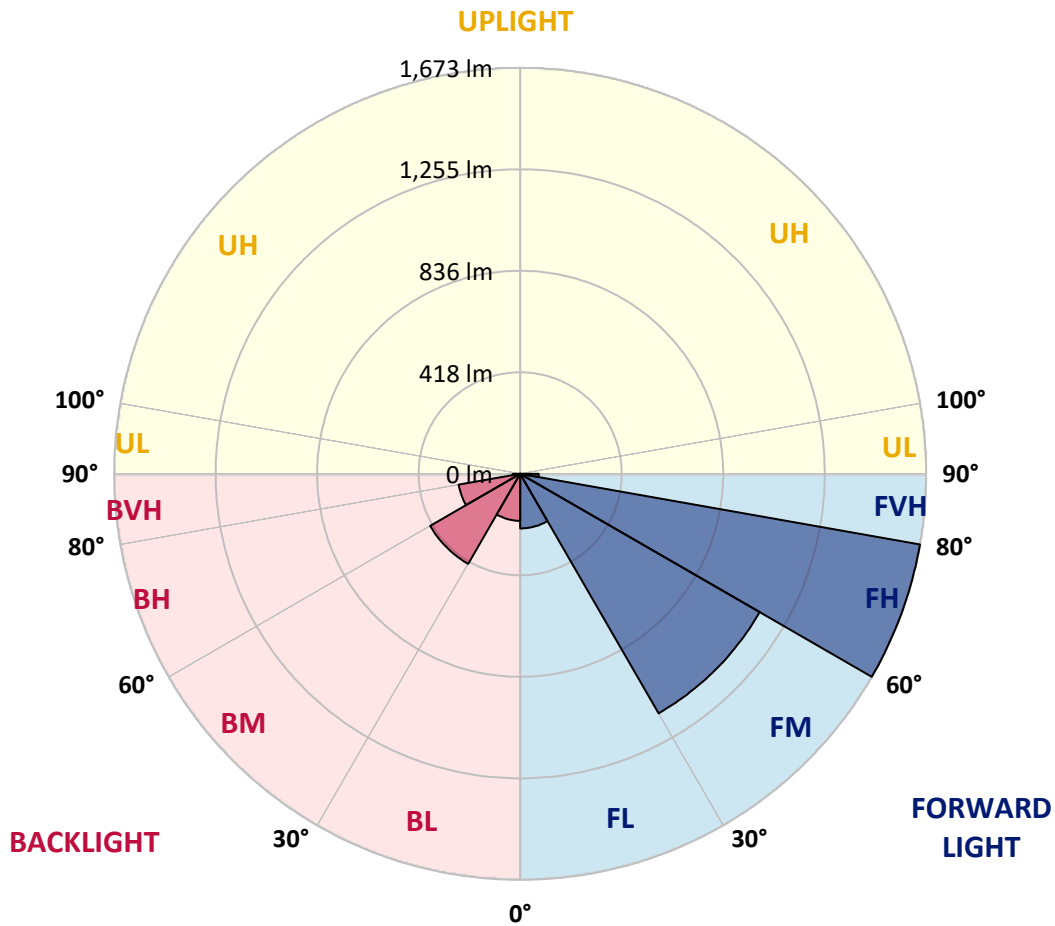
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	225.0	5.6			
FM (30°-60°)	1139.8	28.3			
FH (60°-80°)	1672.9	41.6			G1/1800
FVH (80°-90°)	76.6	1.9			G1/100
BL (0°-30°)	193.7	4.8	B1/500		
BM (30°-60°)	428.3	10.6	B1/1000		
BH (60°-80°)	257.5	6.4	B1/500		G1/500
BVH (80°-90°)	30.2	0.7			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	405.9	405.9	405.9	405.9	405.9	405.9	405.9	405.9	405.9	405.9
2.5°	421.8	424.6	422.1	419.7	418.7	415.9	415.7	414.0	412.9	410.0
5°	451.3	454.9	450.7	446.0	441.8	435.0	434.1	429.3	423.7	417.4
7.5°	484.6	487.8	482.9	475.9	468.5	457.2	457.0	448.1	439.4	428.6
10°	513.6	517.9	511.3	501.8	492.4	479.7	478.2	468.1	457.0	443.0
12.5°	539.3	542.2	535.9	524.2	513.4	500.7	498.8	487.6	475.3	459.4
15°	559.6	563.4	555.0	542.5	531.0	518.5	516.8	506.6	494.3	477.6
17.5°	573.0	576.2	567.5	553.5	542.5	532.1	530.8	522.3	511.5	494.6
20°	578.1	581.5	572.3	558.1	548.0	539.9	539.3	533.1	525.7	510.2
22.5°	583.2	586.3	574.5	559.6	550.7	545.6	545.4	541.4	538.4	525.7
25°	603.7	604.6	588.7	567.3	554.5	550.1	549.9	549.7	550.9	541.0
27.5°	621.5	621.3	607.7	587.6	567.9	558.6	558.4	560.5	564.5	556.2
30°	647.6	645.3	629.2	608.2	590.2	575.7	574.5	572.6	575.7	569.2
32.5°	702.9	695.5	669.4	632.1	608.6	597.6	595.9	584.0	585.3	581.3
35°	782.2	772.5	737.7	677.5	631.5	615.8	615.0	599.9	597.4	593.8
37.5°	876.5	864.5	824.0	743.2	670.9	637.0	635.7	622.2	611.8	608.0
40°	971.3	956.0	922.5	823.3	729.0	672.4	668.4	647.8	635.9	629.6
42.5°	1063.3	1050.6	1022.0	913.2	800.7	724.1	715.2	680.0	671.1	665.2
45°	1144.7	1133.2	1112.3	1009.2	884.6	794.5	785.8	728.4	725.6	725.6
47.5°	1210.8	1208.3	1186.0	1107.2	983.6	874.6	859.6	795.6	803.0	814.4
50°	1284.2	1277.2	1253.4	1203.6	1100.0	966.4	954.1	878.0	905.8	937.2
52.5°	1351.6	1355.4	1328.9	1304.1	1231.4	1068.8	1047.2	975.3	1035.3	1087.2
55°	1420.9	1421.1	1413.7	1410.3	1369.2	1182.0	1158.3	1092.3	1187.7	1252.2
57.5°	1486.0	1486.4	1497.4	1527.3	1529.0	1312.6	1285.7	1236.1	1357.1	1422.8
60°	1544.1	1547.0	1577.1	1647.1	1669.6	1462.2	1436.8	1405.9	1532.2	1598.3
62.5°	1563.6	1574.4	1641.4	1740.8	1808.4	1645.8	1620.8	1602.4	1716.2	1777.7
65°	1530.5	1555.3	1684.8	1818.2	1951.3	1863.9	1839.1	1819.0	1907.4	1965.3
67.5°	1449.3	1481.3	1682.3	1899.3	2124.7	2126.4	2103.3	2056.0	2112.4	2134.6
70°	1235.4	1283.3	1534.1	1929.7	2323.7	2485.3	2463.0	2341.3	2317.0	2209.3
72.5°	796.0	860.4	1129.6	1680.2	2368.0	2822.9	2821.7	2598.9	2381.6	2064.3
75°	290.4	329.8	524.9	1054.6	1987.7	2805.8	2814.0	2554.8	2174.1	1594.5
77.5°	105.8	115.7	171.3	405.3	1222.5	2251.2	2268.4	2042.4	1547.5	800.2
80°	55.5	61.1	87.8	157.3	523.8	1337.0	1363.9	1213.8	727.3	241.0
82.5°	30.7	33.3	49.2	85.4	235.9	571.7	587.8	479.5	255.9	102.2
85°	16.5	17.6	23.1	46.6	115.3	198.2	202.7	143.3	102.0	60.0
87.5°	4.9	5.9	7.6	14.8	45.2	44.5	45.6	28.4	40.3	30.3
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°
405.9	0°	405.9	405.9	405.9	405.9	405.9	405.9	405.9	405.9	405.9	405.9
409.1	2.5°	407.9	407.2	404.9	403.8	402.6	402.3	403.4	403.6	403.8	404.0
413.8	5°	411.7	409.5	407.4	406.2	406.6	406.8	408.9	410.4	411.5	412.3
422.5	7.5°	419.1	417.4	413.8	413.6	414.2	416.1	418.9	422.3	424.2	425.7
433.7	10°	430.1	426.9	422.7	423.3	424.6	427.4	433.1	435.8	439.0	441.8
447.5	12.5°	441.3	438.6	433.7	434.1	436.3	441.1	446.6	450.0	452.2	454.3
462.3	15°	456.0	451.1	445.8	445.8	449.6	454.9	457.5	460.2	461.5	463.8
478.2	17.5°	471.0	464.7	457.7	457.2	461.9	464.4	465.9	466.4	466.8	469.3
493.7	20°	486.1	479.1	469.1	468.3	469.3	468.9	468.7	468.3	468.9	472.1
509.6	22.5°	500.9	492.9	479.1	475.3	472.3	468.3	468.1	467.8	468.3	471.4
526.8	25°	518.3	508.5	490.1	478.7	468.7	463.2	463.8	464.0	464.4	467.0
544.6	27.5°	537.2	526.3	500.3	477.6	459.6	455.8	454.7	455.3	456.8	460.8
562.4	30°	556.0	543.3	509.6	473.4	448.1	442.8	439.4	440.9	445.6	449.6
577.9	32.5°	573.2	560.5	517.0	464.0	433.5	425.2	420.8	422.7	427.4	428.8
595.0	35°	593.3	578.9	520.2	449.2	417.6	404.9	398.9	396.2	398.5	397.0
615.2	37.5°	615.8	600.8	519.8	429.7	398.9	384.3	376.1	365.7	360.8	355.7
644.8	40°	649.1	627.5	514.7	406.2	375.8	362.5	347.6	330.1	319.0	309.1
692.8	42.5°	694.4	664.6	505.4	380.3	349.8	337.3	317.1	296.6	279.2	262.6
765.5	45°	762.1	713.1	493.7	352.7	321.6	309.3	287.4	264.3	244.6	223.4
868.7	47.5°	859.6	778.4	482.7	321.4	291.9	280.7	260.9	239.5	216.2	195.7
1017.9	50°	993.6	872.1	472.5	290.8	262.6	254.2	238.5	216.6	193.1	176.6
1192.8	52.5°	1164.0	999.5	468.3	261.4	235.3	232.1	219.6	199.3	177.0	163.0
1396.7	55°	1359.6	1151.9	468.3	233.2	211.3	212.4	203.7	184.8	165.6	153.1
1607.0	57.5°	1559.3	1306.2	459.8	207.1	191.0	195.4	189.9	173.4	156.0	143.1
1828.1	60°	1743.3	1435.5	425.4	183.4	173.0	180.0	176.4	162.2	141.0	130.2
2013.0	62.5°	1884.7	1508.5	359.3	164.5	158.1	166.2	164.3	147.3	138.2	133.8
2164.7	65°	1955.5	1496.6	274.7	147.8	145.6	158.1	154.1	153.5	146.3	141.2
2214.1	67.5°	1912.1	1394.4	199.3	135.5	138.4	150.7	166.2	168.7	155.4	145.4
2075.1	70°	1721.5	1209.6	148.4	123.8	129.3	150.9	189.5	176.6	152.4	140.8
1664.3	72.5°	1309.6	902.0	115.1	111.5	117.4	152.0	199.9	173.0	143.9	155.6
1036.8	75°	748.9	495.2	92.4	96.5	102.6	142.0	194.6	163.6	137.4	142.9
410.8	77.5°	285.5	190.4	76.3	81.6	82.5	124.0	186.1	163.0	130.8	127.6
123.2	80°	99.0	74.4	63.2	64.9	63.8	110.2	178.5	141.8	107.1	95.8
50.9	82.5°	40.5	37.1	50.0	47.9	45.4	85.6	144.1	116.0	87.5	77.4
24.6	85°	17.6	23.5	33.1	29.0	26.3	59.4	115.5	98.1	74.0	63.8
8.1	87.5°	3.6	8.9	14.0	13.1	13.6	39.6	82.0	69.7	52.4	39.2
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

180°
405.9
404.9
412.7
426.1
441.1
455.1
464.7
470.2
473.4
473.6
470.4
464.9
454.1
434.1
401.7
358.9
309.7
261.2
220.9
193.3
175.5
162.0
151.8
141.0
128.5
132.3
139.5
143.7
138.8
154.3
142.9
116.4
92.6
76.5
63.6
30.7
0.0

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