

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: P945016

Luminaire Tested: **GALN-SB1A-830-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945016
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
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-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4139 lumens
Efficiency: N/A
Efficacy: 133.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

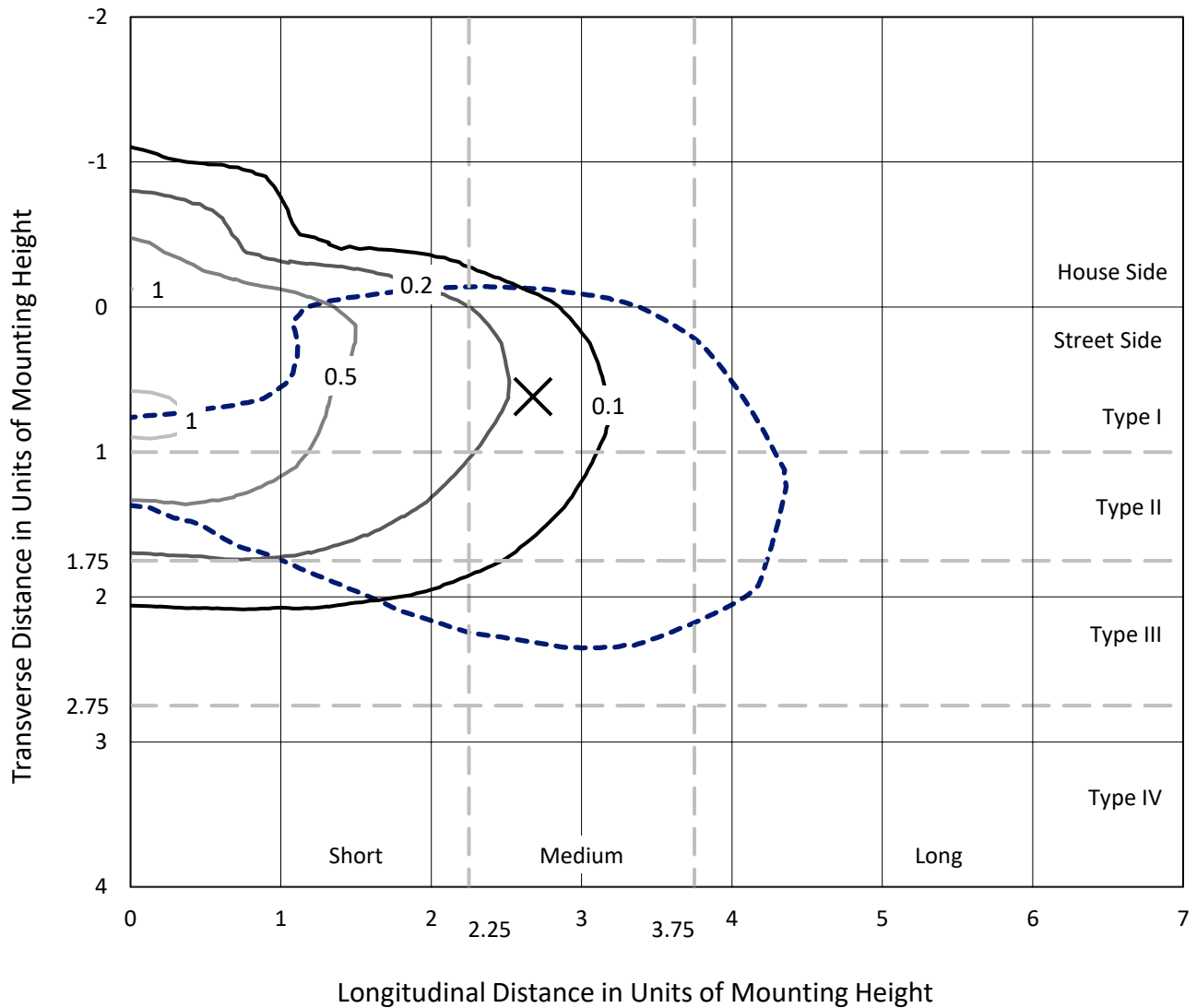
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P945016
 CATALOG NUMBER: GALN-SB1A-830-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

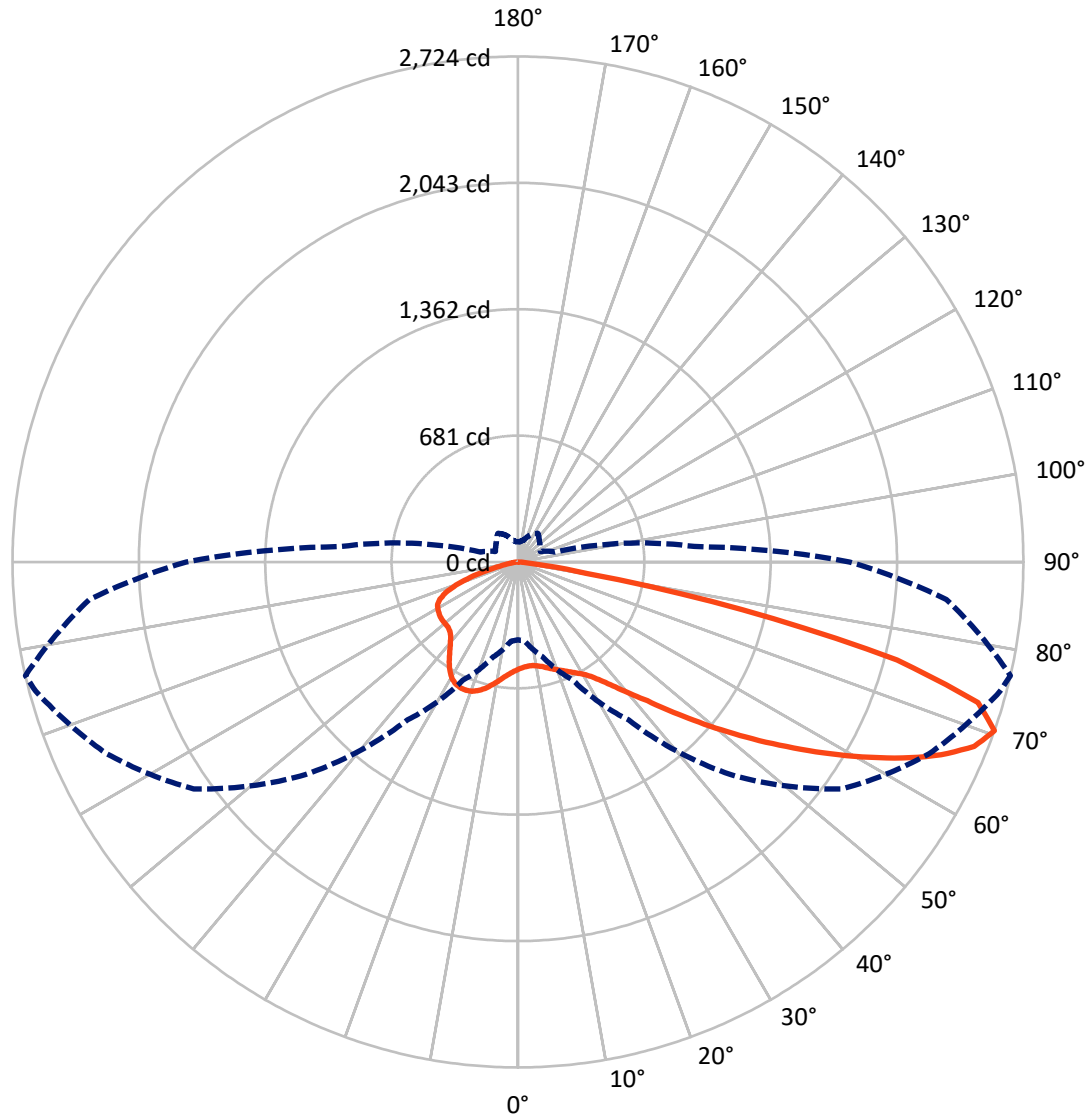
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 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	906.4	0.0	906.4
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	3232.6	0.0	3232.6
	% Fixture	78.1	0.0	78.1
Total	Lumens	4139.0	0.0	4139.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.1	1.3
10°-20°	158.9	3.8
20°-30°	271.8	6.6
30°-40°	437.1	10.6
40°-50°	682.4	16.5
50°-60°	911.6	22.0
60°-70°	971.6	23.5
70°-80°	598.1	14.5
80°-90°	52.4	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°	4139.0	100.0
0°-180°	4139.0	100.0

Coefficient of Utilization



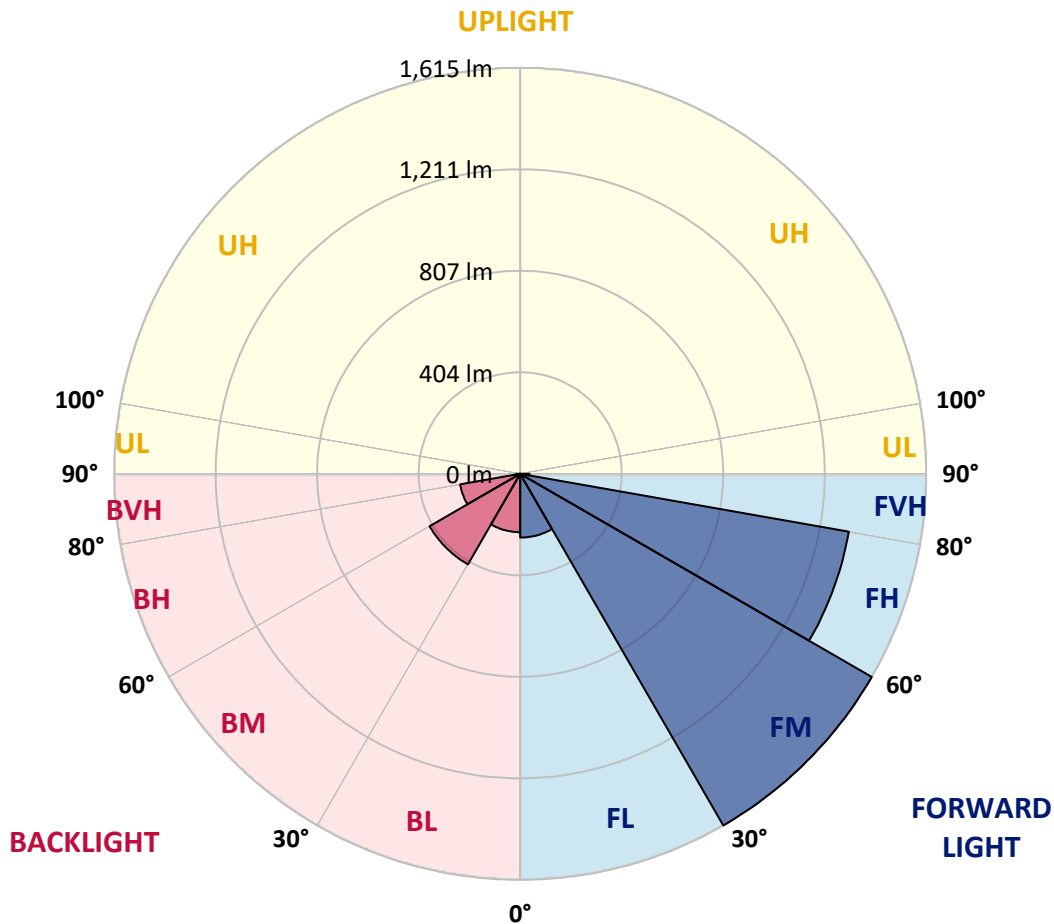
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	253.6	6.1			
FM (30°-60°)	1614.9	39.0			
FH (60°-80°)	1327.4	32.1			G1/1800
FVH (80°-90°)	36.6	0.9			G1/100
BL (0°-30°)	232.2	5.6	B1/500		
BM (30°-60°)	416.1	10.1	B1/1000		
BH (60°-80°)	242.2	5.9	B1/500		G1/500
BVH (80°-90°)	15.8	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	577.4	577.4	577.4	577.4	577.4	577.4	577.4	577.4	577.4	577.4
2.5°	532.3	532.1	534.8	535.7	540.8	544.4	551.1	558.4	567.7	568.7
5°	501.5	501.5	504.7	508.1	514.7	521.9	532.3	544.8	560.9	563.4
7.5°	475.5	477.2	479.9	486.5	494.1	504.5	520.4	538.2	559.4	563.4
10°	454.5	456.4	459.8	465.1	476.5	490.9	511.7	534.6	563.0	569.4
12.5°	447.9	449.8	451.7	455.8	466.4	483.3	508.1	536.3	571.7	578.1
15°	463.2	465.5	464.0	463.0	468.5	483.9	509.8	542.5	582.5	591.6
17.5°	498.4	499.2	495.8	485.9	485.0	493.3	517.9	550.9	596.1	606.0
20°	555.2	553.7	546.7	527.0	515.7	514.0	531.6	563.6	610.1	620.7
22.5°	632.3	630.6	616.6	585.5	560.5	543.9	551.6	580.2	625.8	637.6
25°	728.6	726.2	705.7	663.3	624.5	583.6	578.7	602.0	645.0	656.1
27.5°	840.9	839.0	816.8	760.8	704.8	637.8	612.4	627.7	665.2	677.7
30°	961.7	967.3	927.8	867.6	796.8	708.6	657.8	659.3	691.3	702.5
32.5°	1103.8	1113.3	1065.8	989.5	892.9	785.6	715.0	703.3	729.2	738.5
35°	1244.5	1255.3	1215.9	1131.5	1020.3	876.3	774.8	754.0	779.7	789.8
37.5°	1366.2	1380.6	1360.3	1286.9	1156.6	985.7	852.8	813.6	841.8	854.5
40°	1462.2	1484.3	1482.8	1437.0	1317.2	1118.4	951.8	887.1	918.9	932.7
42.5°	1540.2	1559.3	1575.8	1573.5	1484.9	1269.1	1068.2	982.7	1006.9	1022.8
45°	1594.1	1614.4	1650.0	1688.4	1646.2	1430.4	1201.5	1096.1	1118.2	1142.1
47.5°	1642.2	1665.3	1711.5	1772.3	1783.2	1592.4	1347.5	1228.2	1248.3	1273.1
50°	1646.4	1666.4	1738.0	1824.3	1880.5	1748.0	1504.4	1376.4	1395.2	1421.7
52.5°	1544.0	1575.4	1700.5	1822.8	1925.2	1878.1	1660.2	1530.5	1551.7	1583.5
55°	1198.5	1244.5	1590.5	1766.0	1909.3	1962.3	1808.4	1694.3	1721.5	1754.8
57.5°	1032.3	1052.5	1262.5	1662.5	1836.8	1984.1	1933.5	1859.9	1903.6	1940.0
60°	927.8	944.6	1068.8	1501.7	1741.4	1949.6	2030.1	2014.2	2089.7	2133.1
62.5°	815.9	831.8	944.8	1253.9	1619.3	1892.1	2091.2	2156.7	2280.5	2327.9
65°	704.8	718.4	826.7	1053.5	1464.1	1834.7	2122.7	2279.8	2457.0	2506.2
67.5°	581.0	592.3	694.7	888.8	1275.5	1756.0	2138.4	2376.7	2610.7	2652.9
70°	419.3	428.0	533.8	702.9	1038.7	1620.8	2132.1	2445.4	2690.4	2724.1
72.5°	198.2	206.0	330.3	456.4	733.7	1357.5	2003.4	2390.9	2609.5	2592.7
75°	105.8	112.6	189.7	250.3	387.5	930.6	1639.4	2059.6	2191.2	2109.8
77.5°	71.6	76.9	117.4	150.3	177.0	441.8	1053.7	1426.0	1371.9	1237.5
80°	56.8	62.3	96.2	101.7	85.6	159.6	435.4	660.1	474.2	379.2
82.5°	43.7	49.8	81.0	73.8	46.6	65.5	126.8	208.8	121.5	92.4
85°	26.7	33.3	63.6	47.1	26.3	29.9	43.0	58.1	37.1	30.9
87.5°	13.6	19.1	32.2	17.2	11.9	7.0	11.4	11.4	9.8	8.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P945016
 CATALOG NUMBER: GALN-SB1A-830-U-T3R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
577.4	0°	577.4	577.4	577.4	577.4	577.4	577.4	577.4	577.4	577.4	577.4
574.5	2.5°	579.5	583.8	591.0	597.8	603.1	608.2	613.3	616.0	616.9	620.2
577.6	5°	586.3	594.2	608.2	621.3	629.6	634.7	638.3	640.4	640.8	641.9
586.3	7.5°	598.8	611.3	630.8	644.0	650.1	649.7	648.2	642.9	640.8	638.9
599.1	10°	616.4	633.0	656.9	666.0	662.2	652.0	638.9	623.4	616.2	609.2
616.4	12.5°	638.3	659.3	682.8	682.4	663.5	637.4	606.9	583.2	568.1	557.3
637.8	15°	664.8	688.9	706.9	692.5	651.2	604.3	559.6	528.7	515.1	503.2
659.5	17.5°	692.1	718.0	726.2	689.4	620.2	555.4	504.7	480.3	467.0	460.6
682.8	20°	718.8	744.5	737.7	671.1	573.2	499.8	454.7	441.3	438.6	440.1
705.5	22.5°	747.0	769.9	740.0	635.9	513.2	443.0	418.2	418.7	424.8	429.3
729.2	25°	775.8	791.3	733.9	585.1	448.8	401.3	395.1	401.9	414.0	422.7
755.9	27.5°	803.6	810.4	720.5	522.1	393.4	371.4	372.4	386.4	404.7	416.7
788.3	30°	835.0	827.4	694.9	451.3	355.1	345.7	354.6	371.0	389.2	400.0
829.3	32.5°	870.4	842.0	654.2	385.8	327.9	325.2	339.8	350.4	358.5	361.6
883.5	35°	914.5	862.5	602.0	339.8	303.6	310.1	324.1	318.8	315.6	313.9
956.4	37.5°	971.7	890.3	541.0	309.9	283.8	299.3	305.0	288.5	276.0	269.8
1044.8	40°	1040.6	931.0	482.3	286.8	271.3	290.0	280.0	260.1	244.2	235.5
1144.3	42.5°	1117.1	973.6	432.9	269.4	264.3	282.4	261.6	237.8	212.2	209.4
1262.8	45°	1197.5	1017.5	399.2	256.1	260.9	275.8	251.0	212.6	194.4	205.6
1381.7	47.5°	1277.8	1057.8	378.8	246.1	259.2	268.4	241.7	198.6	185.7	202.0
1509.1	50°	1367.3	1093.8	369.7	238.9	257.3	265.4	227.7	195.0	176.6	187.4
1640.9	52.5°	1456.1	1121.8	362.9	231.7	254.6	263.1	220.9	190.8	165.6	166.2
1773.6	55°	1544.7	1140.0	355.5	222.2	248.4	258.0	220.2	186.1	157.3	154.3
1913.9	57.5°	1639.2	1150.4	346.4	211.6	237.8	245.0	219.6	182.5	154.7	149.9
2057.5	60°	1735.5	1165.7	334.5	198.6	223.6	229.6	218.1	181.2	153.3	145.0
2192.7	62.5°	1821.7	1171.0	320.3	186.3	205.4	214.3	214.9	180.2	149.2	135.0
2305.0	65°	1878.3	1148.1	295.5	172.3	185.7	198.6	208.8	176.6	142.0	127.8
2360.6	67.5°	1876.0	1082.8	256.7	154.3	166.6	181.2	199.9	170.4	133.3	118.9
2318.6	70°	1788.7	953.9	207.5	133.3	145.6	162.6	188.4	161.3	122.9	109.2
2061.7	72.5°	1534.1	746.6	150.7	108.7	121.3	143.3	173.6	150.3	112.3	100.5
1523.7	75°	1095.9	472.5	102.2	83.5	94.3	121.5	155.2	137.4	102.6	100.9
763.1	77.5°	559.8	225.8	67.6	61.0	65.7	95.8	130.4	122.7	104.1	83.3
217.1	80°	182.1	83.3	42.6	41.5	43.7	63.8	100.9	100.7	78.9	56.6
52.6	82.5°	58.1	35.8	27.8	26.7	25.6	40.1	70.4	79.7	53.2	35.8
18.9	85°	23.1	21.4	16.3	15.1	10.8	18.9	36.9	53.0	39.6	25.9
4.9	87.5°	8.5	8.5	4.5	3.2	2.3	6.4	10.0	15.9	22.7	13.4
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

<u>180°</u>
577.4
622.2
643.6
639.3
607.1
554.7
502.0
462.5
439.4
430.3
425.0
419.7
402.5
363.3
315.6
271.3
236.1
212.2
211.6
209.6
195.4
170.6
156.4
150.5
145.6
135.0
127.8
119.6
<i>110.4</i>
99.8
95.2
74.2
50.0
35.6
26.5
13.1
0.0

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