

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: P938745

Luminaire Tested: **GALN-SB1A-735-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938745
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-SB1A-735-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4446 lumens
Efficiency: N/A
Efficacy: 143.9 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

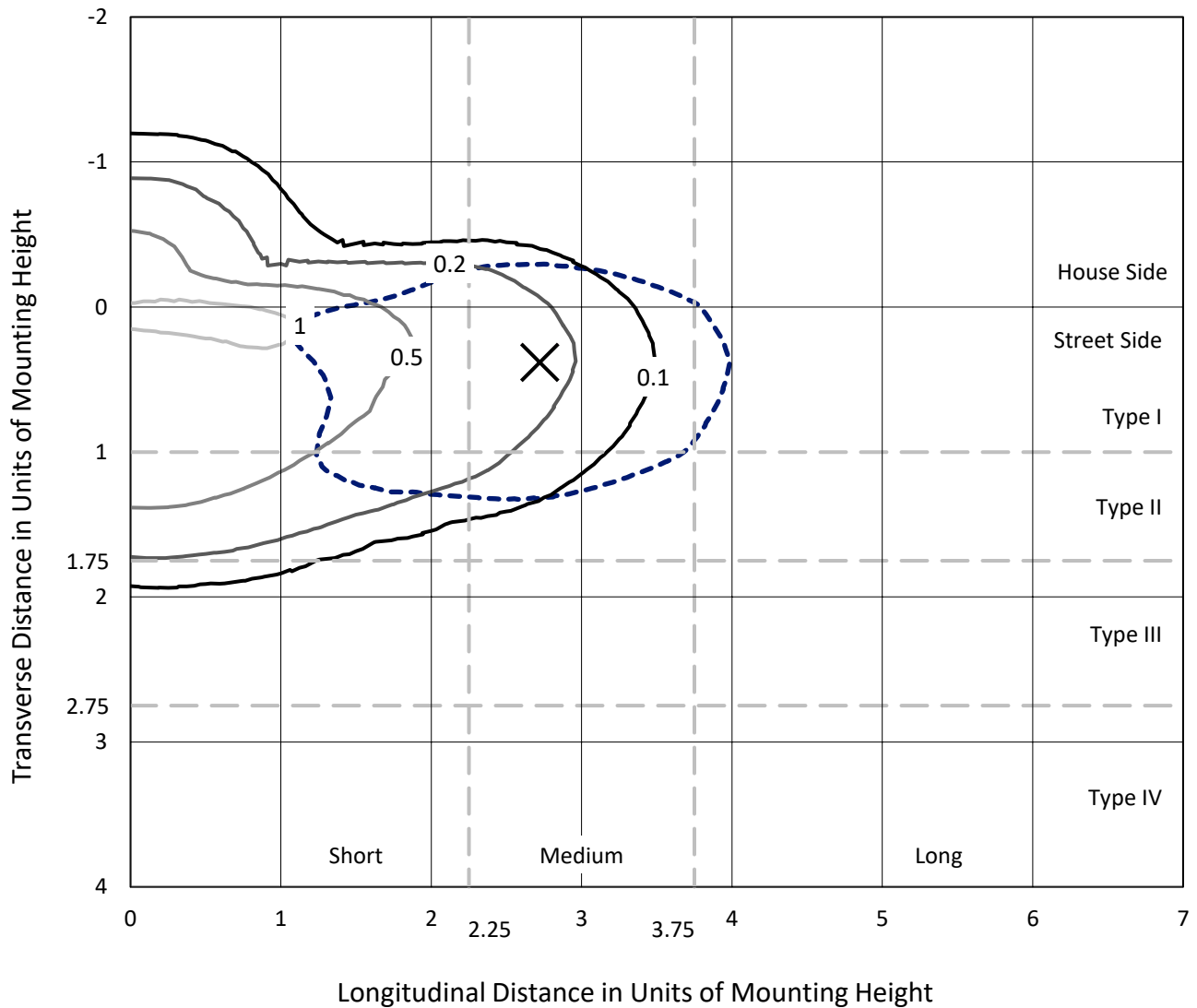
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P938745
 CATALOG NUMBER: GALN-SB1A-735-U-T2

Iso-Footcandle Lines of Horizontal Illumination

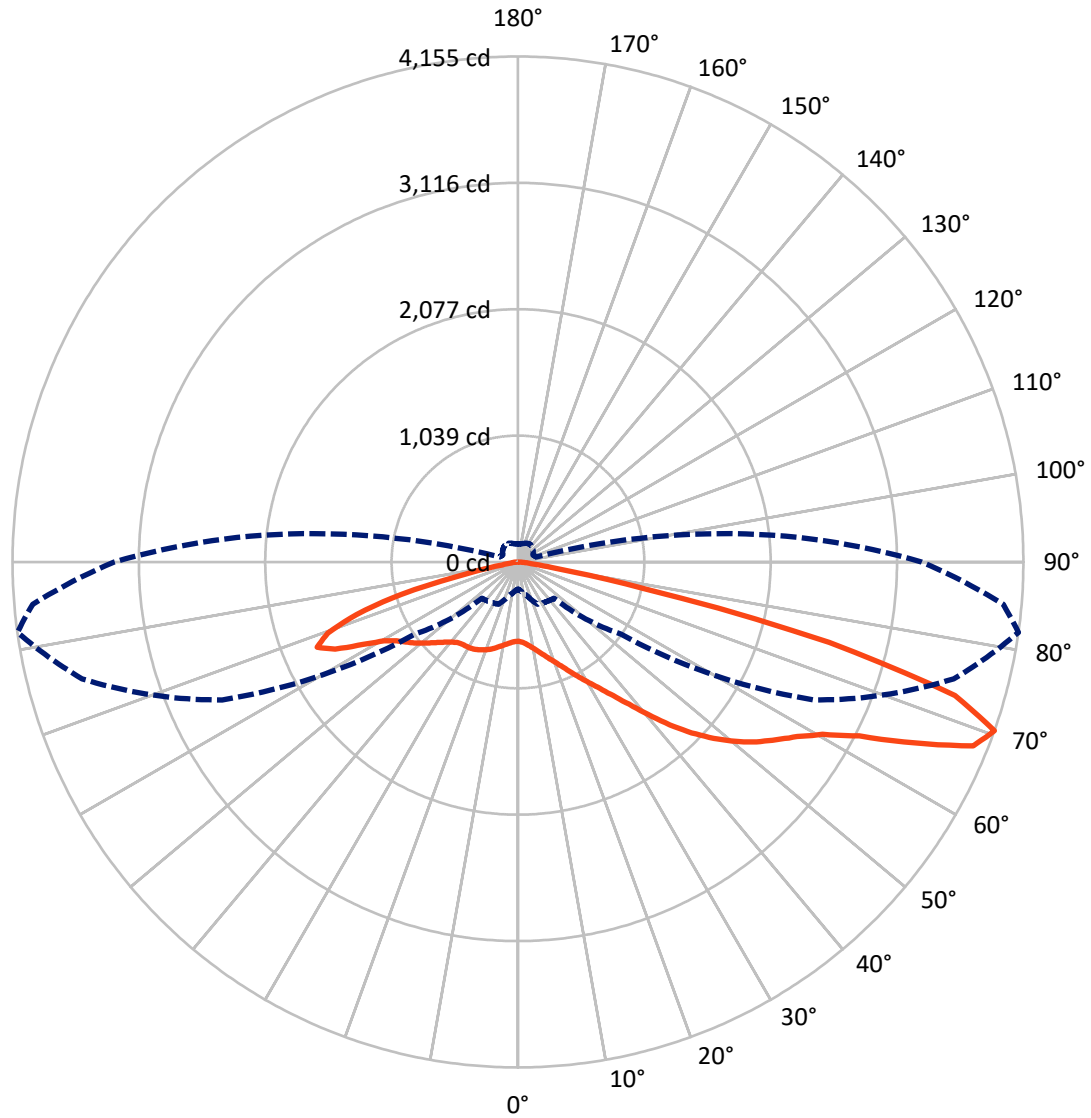
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type II - Medium - N/A

REPORT NUMBER: P938745
CATALOG NUMBER: GALN-SB1A-735-U-T2

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	1096.0	0.0	1096.0
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	3350.0	0.0	3350.0
	% Fixture	75.3	0.0	75.3
Total	Lumens	4446.0	0.0	4446.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.5	1.4
10°-20°	176.8	4.0
20°-30°	295.8	6.7
30°-40°	462.1	10.4
40°-50°	736.0	16.6
50°-60°	1024.2	23.0
60°-70°	1071.4	24.1
70°-80°	560.0	12.6
80°-90°	58.1	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°	4446.0	100.0
0°-180°	4446.0	100.0

Coefficient of Utilization



REPORT NUMBER: P938745

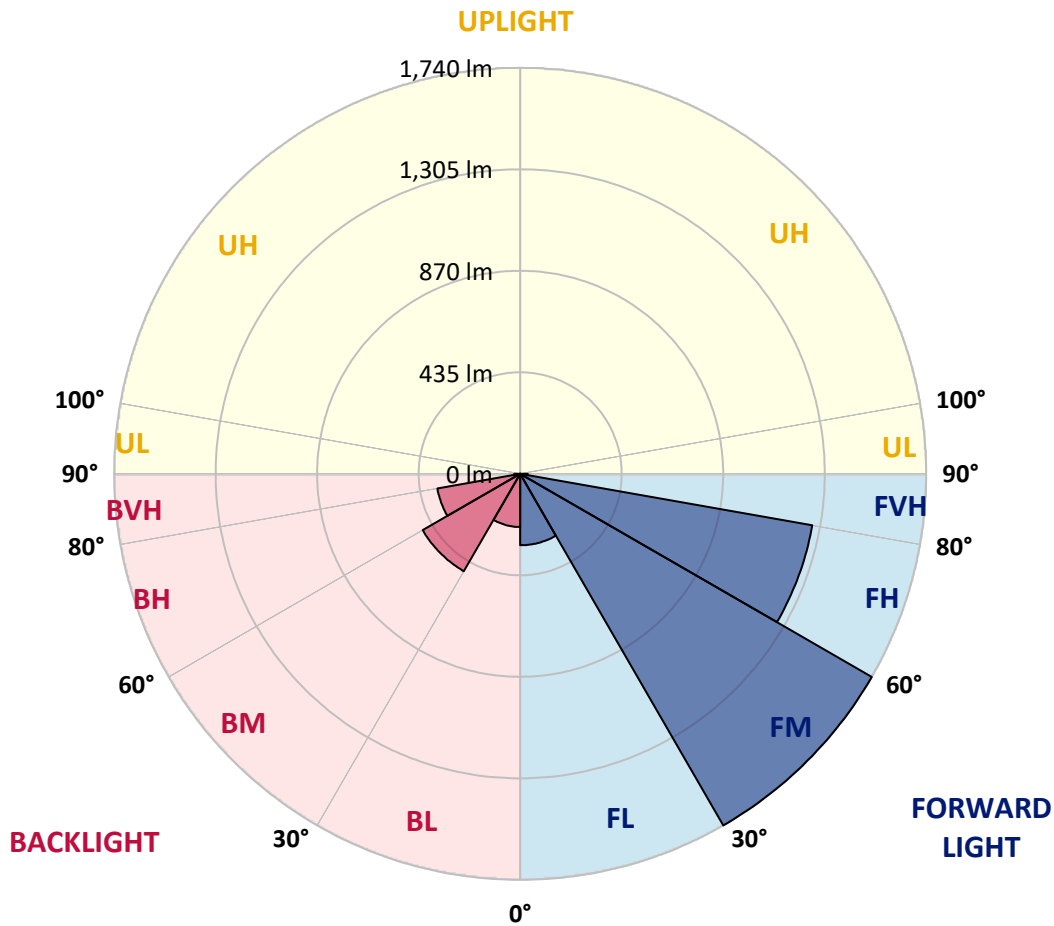
CATALOG NUMBER: GALN-SB1A-735-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	306.2	6.9			
FM (30°-60°)	1740.1	39.1			
FH (60°-80°)	1271.1	28.6			G1/1800
FVH (80°-90°)	32.6	0.7			G1/100
BL (0°-30°)	228.0	5.1	B1/500		
BM (30°-60°)	482.2	10.8	B1/1000		
BH (60°-80°)	360.2	8.1	B1/500		G1/500
BVH (80°-90°)	25.6	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



REPORT NUMBER: P938745

CATALOG NUMBER: GALN-SB1A-735-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	651.8	651.8	651.8	651.8	651.8	651.8	651.8	651.8	651.8	651.8
2.5°	667.4	671.2	670.0	668.8	668.8	667.2	666.9	664.6	662.7	659.6
5°	675.9	679.9	679.4	680.4	683.5	684.2	684.9	683.5	679.7	675.9
7.5°	668.4	672.8	674.3	679.9	689.4	697.8	704.2	706.8	703.3	697.8
10°	642.9	647.8	652.8	666.2	683.0	703.0	720.0	730.2	729.5	724.3
12.5°	591.2	596.4	607.0	633.2	663.9	699.3	730.9	752.1	759.4	755.6
15°	549.9	554.4	562.4	589.3	629.2	683.0	734.9	776.2	794.8	792.7
17.5°	548.7	550.6	555.6	568.3	599.0	657.5	730.6	799.8	835.4	835.1
20°	569.5	570.2	573.0	575.6	593.1	638.2	719.8	819.3	880.9	880.9
22.5°	598.3	597.8	600.6	598.3	606.8	636.5	712.9	836.6	931.6	935.4
25°	641.5	639.1	638.4	633.0	634.6	651.8	720.5	856.1	991.8	999.6
27.5°	699.0	695.2	692.7	680.1	675.9	683.5	743.6	879.7	1058.8	1072.2
30°	774.0	767.2	763.4	741.7	726.4	727.6	778.5	911.1	1128.9	1150.6
32.5°	876.4	865.8	855.7	820.0	792.0	782.8	823.6	954.5	1204.8	1239.5
35°	991.1	982.6	971.7	916.8	873.6	852.4	884.5	1015.2	1293.8	1348.7
37.5°	1101.5	1094.2	1099.4	1025.3	969.6	938.7	964.2	1096.5	1403.5	1484.6
40°	1215.7	1210.0	1210.7	1140.0	1075.1	1040.4	1060.9	1198.7	1529.2	1646.2
42.5°	1339.8	1335.5	1321.4	1258.6	1185.7	1153.4	1172.3	1316.7	1664.2	1830.2
45°	1478.7	1476.1	1462.9	1391.0	1307.5	1271.1	1296.6	1446.9	1799.8	2003.4
47.5°	1598.8	1600.9	1599.3	1538.7	1452.1	1398.8	1429.2	1582.8	1926.0	2166.2
50°	1656.6	1667.7	1684.0	1665.1	1611.3	1557.1	1563.0	1713.9	2046.3	2318.8
52.5°	1626.4	1647.4	1691.8	1722.0	1742.7	1731.4	1715.6	1844.2	2159.6	2456.6
55°	1513.9	1543.4	1617.0	1689.9	1795.8	1878.1	1898.9	1988.5	2270.0	2577.9
57.5°	1308.9	1356.8	1422.8	1570.3	1748.6	1949.1	2112.6	2188.8	2387.0	2707.4
60°	957.4	1021.5	1103.6	1323.0	1583.5	1911.2	2294.5	2496.5	2553.3	2875.1
62.5°	612.7	652.3	727.8	934.5	1233.8	1716.5	2350.2	2881.0	2835.3	3150.2
65°	419.5	444.9	514.1	630.1	797.6	1277.7	2201.1	3169.3	3283.0	3586.2
67.5°	304.8	324.2	383.1	484.8	519.7	756.1	1708.0	3156.1	3718.3	4035.4
70°	222.2	235.9	285.5	383.1	399.9	420.6	1034.7	2682.9	3708.9	4154.7
72.5°	164.7	174.1	207.4	297.3	323.7	284.0	512.2	1949.9	3187.0	3757.9
75°	119.1	126.2	150.8	227.4	259.0	216.3	255.5	1139.5	2223.0	2643.5
77.5°	91.1	96.5	112.5	166.6	207.4	162.3	158.5	524.2	1054.1	1059.3
80°	73.1	76.7	85.4	117.3	159.0	121.5	103.3	211.6	333.1	281.9
82.5°	53.8	59.7	72.2	82.3	113.7	83.8	63.0	106.9	126.7	109.0
85°	30.7	34.7	43.6	59.0	72.7	51.2	36.1	47.4	59.0	48.4
87.5°	10.9	14.2	15.3	23.1	31.6	21.2	13.9	13.7	19.3	14.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P938745
 CATALOG NUMBER: GALN-SB1A-735-U-T2

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
651.8	0°	651.8	651.8	651.8	651.8	651.8	651.8	651.8	651.8	651.8	651.8
658.9	2.5°	656.6	655.4	650.7	644.3	637.7	631.3	629.2	624.7	621.6	620.0
674.3	5°	669.8	666.0	654.9	640.8	625.9	609.8	598.5	588.1	580.6	573.5
695.2	7.5°	688.6	682.0	662.9	638.2	611.7	585.1	565.3	550.2	540.0	533.4
719.8	10°	710.6	700.4	671.2	634.1	593.3	555.1	531.8	518.8	512.4	508.9
747.9	12.5°	735.8	721.4	679.7	624.9	565.3	521.6	505.6	501.8	502.0	502.3
783.2	15°	767.0	746.9	686.5	604.9	528.7	495.9	493.1	499.2	505.6	508.6
823.4	17.5°	802.1	773.8	687.7	571.9	492.8	479.4	488.3	501.6	511.2	515.5
868.2	20°	839.9	801.2	679.2	525.2	463.3	465.9	482.0	499.0	509.6	515.0
919.4	22.5°	883.0	830.4	658.9	476.1	439.3	451.3	470.2	486.7	497.8	503.2
979.5	25°	932.3	863.2	627.1	434.8	418.5	434.8	453.7	467.4	476.3	481.3
1046.8	27.5°	987.1	897.4	584.6	402.0	400.4	417.8	433.4	444.0	448.7	452.5
1118.2	30°	1042.0	928.6	533.2	377.2	384.5	401.1	412.1	416.9	418.3	419.0
1198.0	32.5°	1101.5	955.5	479.1	356.7	369.4	384.8	391.4	393.5	386.9	382.4
1294.7	35°	1173.5	984.2	426.3	340.4	354.6	367.8	369.9	368.0	360.2	351.0
1416.0	37.5°	1262.4	1020.1	384.1	328.9	340.7	349.4	346.8	346.3	347.0	336.2
1561.8	40°	1371.4	1066.8	353.2	319.9	329.3	331.2	323.9	327.9	331.5	314.9
1721.7	42.5°	1492.4	1123.2	333.6	313.8	319.9	315.4	304.1	308.6	308.1	286.4
1882.4	45°	1615.8	1184.5	326.7	309.3	311.2	302.2	289.7	290.9	281.0	261.4
2036.4	47.5°	1738.5	1250.4	331.0	305.5	300.3	290.2	280.5	275.3	260.7	246.1
2184.1	50°	1858.8	1319.5	346.6	298.0	285.5	279.6	272.5	263.3	247.7	235.2
2323.8	52.5°	1970.4	1389.1	364.0	285.5	266.8	270.4	265.9	255.3	239.9	227.2
2455.9	55°	2076.1	1458.7	370.9	268.2	249.4	262.3	259.7	240.2	221.8	211.4
2594.1	57.5°	2191.2	1542.4	363.3	246.3	235.2	253.1	243.2	221.5	210.9	203.1
2774.2	60°	2350.7	1673.8	347.0	219.2	221.8	239.5	222.5	213.5	201.9	193.2
3044.0	62.5°	2615.6	1919.0	320.8	192.3	206.0	219.2	212.6	203.6	191.8	183.3
3505.5	65°	3007.2	2259.6	271.5	171.3	188.3	199.4	201.9	193.0	180.7	171.7
3909.9	67.5°	3337.5	2473.4	205.5	153.8	170.1	183.3	190.6	181.9	168.9	160.2
4004.5	70°	3319.4	2318.1	156.9	136.6	154.1	167.5	176.9	170.1	156.2	147.9
3637.4	72.5°	2948.3	1939.2	126.9	119.1	137.8	151.0	162.3	157.1	143.0	134.9
2664.7	75°	2166.0	1376.6	101.4	101.4	117.5	133.8	146.3	143.0	130.0	124.3
1118.7	77.5°	913.0	577.5	79.5	84.2	97.7	114.9	130.5	131.6	120.3	127.4
295.8	80°	242.8	159.2	60.6	66.3	76.7	94.8	113.5	113.0	100.7	94.1
109.9	82.5°	92.5	62.8	43.2	46.7	55.4	72.7	89.9	92.7	80.4	69.6
43.2	85°	35.6	26.9	26.7	28.1	32.3	48.1	67.9	70.3	60.6	51.4
12.0	87.5°	9.2	8.0	9.9	9.4	14.9	25.7	38.9	40.3	37.0	21.5
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>
651.8
621.9
576.3
534.8
509.8
502.7
508.4
516.4
516.4
504.6
482.7
453.9
420.6
383.8
351.5
336.9
315.4
286.2
262.1
246.1
234.3
227.4
210.4
202.4
192.7
183.3
172.2
160.4
148.6
134.9
122.7
115.6
87.5
69.6
53.1
30.7
0.0

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