

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: P938795

Luminaire Tested: **GALN-SB1A-830-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938795
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-830-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3995 lumens
Efficiency: N/A
Efficacy: 129.3 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

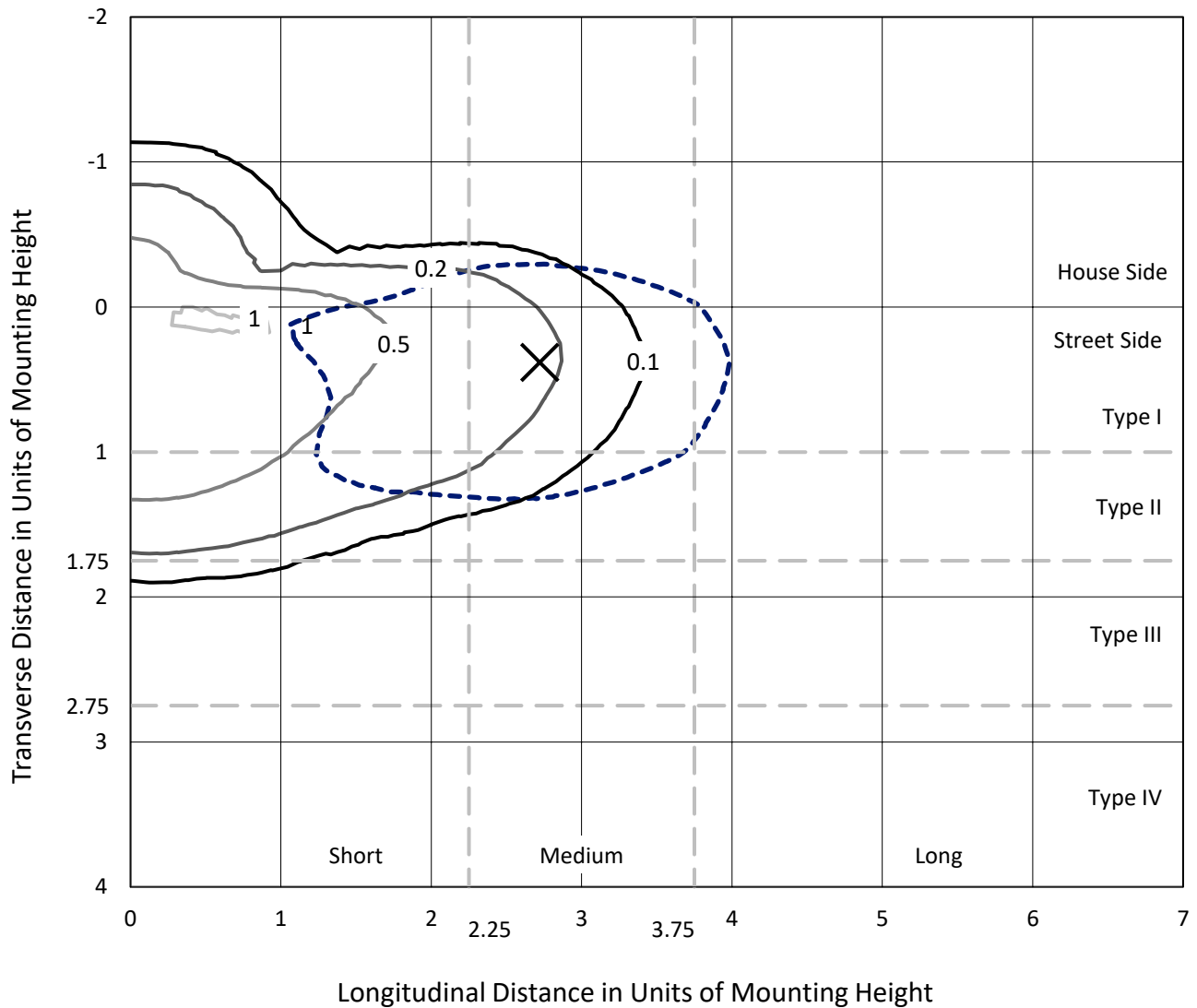
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

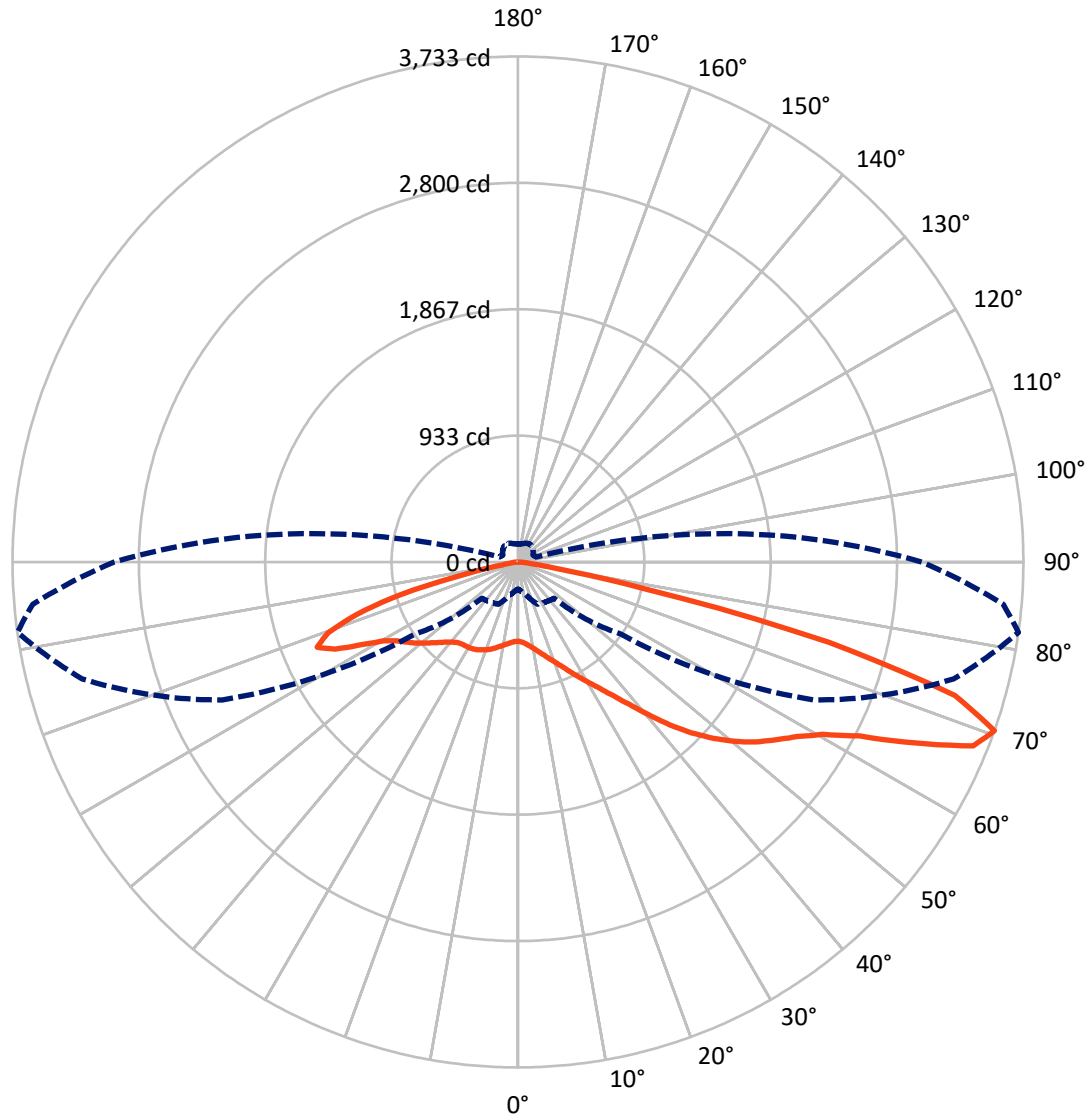
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 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	984.9	0.0	984.9
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	3010.1	0.0	3010.1
	% Fixture	75.3	0.0	75.3
Total	Lumens	3995.0	0.0	3995.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.3	1.4
10°-20°	158.9	4.0
20°-30°	265.8	6.7
30°-40°	415.3	10.4
40°-50°	661.3	16.6
50°-60°	920.3	23.0
60°-70°	962.7	24.1
70°-80°	503.2	12.6
80°-90°	52.3	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°	3995.0	100.0
0°-180°	3995.0	100.0

Coefficient of Utilization



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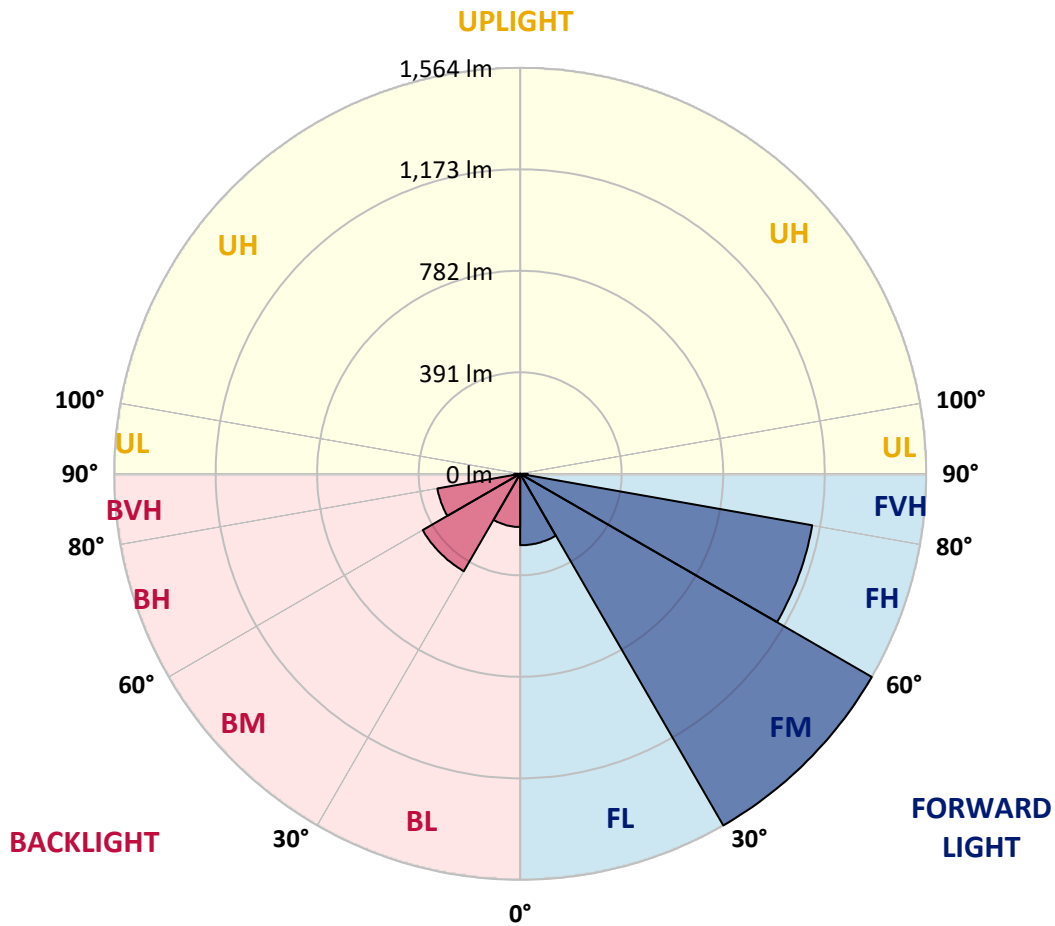
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	275.1	6.9			
FM (30°-60°)	1563.6	39.1			
FH (60°-80°)	1142.2	28.6			G1/1800
FVH (80°-90°)	29.2	0.7			G1/100
BL (0°-30°)	204.9	5.1	B1/500		
BM (30°-60°)	433.3	10.8	B1/1000		
BH (60°-80°)	323.7	8.1	B1/500		G1/500
BVH (80°-90°)	23.0	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°	585.7	585.7	585.7	585.7	585.7	585.7	585.7	585.7	585.7	585.7
2.5°	599.7	603.1	602.0	601.0	601.0	599.5	599.3	597.2	595.5	592.7
5°	607.3	610.9	610.5	611.4	614.1	614.8	615.4	614.1	610.7	607.3
7.5°	600.6	604.6	605.9	610.9	619.4	627.1	632.8	635.1	631.9	627.1
10°	577.7	582.1	586.6	598.6	613.7	631.7	647.0	656.1	655.5	650.8
12.5°	531.2	535.9	545.4	569.0	596.5	628.3	656.7	675.8	682.4	679.0
15°	494.1	498.2	505.4	529.5	565.4	613.7	660.3	697.4	714.2	712.3
17.5°	493.1	494.8	499.2	510.7	538.2	590.8	656.5	718.6	750.6	750.4
20°	511.7	512.4	514.9	517.2	532.9	573.4	646.8	736.2	791.6	791.6
22.5°	537.6	537.2	539.7	537.6	545.2	571.9	640.6	751.7	837.1	840.5
25°	576.4	574.3	573.6	568.8	570.2	585.7	647.4	769.3	891.2	898.2
27.5°	628.1	624.7	622.4	611.2	607.3	614.1	668.2	790.5	951.4	963.5
30°	695.5	689.4	686.0	666.5	652.7	653.8	699.6	818.7	1014.4	1033.9
32.5°	787.5	778.0	768.9	736.9	711.6	703.4	740.0	857.7	1082.6	1113.8
35°	890.6	882.9	873.2	823.8	785.0	765.9	794.7	912.2	1162.5	1211.9
37.5°	989.8	983.2	987.9	921.3	871.3	843.5	866.4	985.3	1261.1	1334.0
40°	1092.4	1087.3	1087.9	1024.3	966.0	934.9	953.3	1077.1	1374.1	1479.2
42.5°	1203.9	1200.1	1187.3	1130.9	1065.4	1036.4	1053.4	1183.1	1495.3	1644.6
45°	1328.7	1326.4	1314.5	1249.9	1174.8	1142.2	1165.1	1300.1	1617.2	1800.2
47.5°	1436.6	1438.5	1437.1	1382.6	1304.8	1256.9	1284.2	1422.2	1730.7	1946.5
50°	1488.6	1498.5	1513.2	1496.2	1447.9	1399.1	1404.4	1540.1	1838.8	2083.6
52.5°	1461.4	1480.3	1520.2	1547.3	1565.9	1555.8	1541.6	1657.1	1940.5	2207.4
55°	1360.3	1386.8	1453.0	1518.5	1613.6	1687.6	1706.3	1786.8	2039.7	2316.4
57.5°	1176.1	1219.1	1278.5	1411.0	1571.2	1751.4	1898.3	1966.8	2144.9	2432.7
60°	860.2	917.9	991.7	1188.8	1422.8	1717.3	2061.8	2243.2	2294.3	2583.5
62.5°	550.5	586.1	654.0	839.7	1108.7	1542.4	2111.8	2588.8	2547.6	2830.6
65°	376.9	399.8	461.9	566.2	716.7	1148.1	1977.8	2847.8	2950.0	3222.4
67.5°	273.9	291.3	344.3	435.6	467.0	679.4	1534.8	2835.9	3341.1	3626.0
70°	199.7	212.0	256.5	344.3	359.3	378.0	929.8	2410.7	3332.6	3733.3
72.5°	148.0	156.4	186.3	267.1	290.8	255.2	460.2	1752.1	2863.7	3376.7
75°	107.1	113.4	135.5	204.4	232.8	194.4	229.6	1023.9	1997.5	2375.3
77.5°	81.8	86.7	101.1	149.7	186.3	145.8	142.5	471.0	947.2	951.8
80°	65.7	68.9	76.7	105.4	142.9	109.2	92.8	190.2	299.3	253.3
82.5°	48.3	53.6	64.9	74.0	102.2	75.3	56.6	96.0	113.8	97.9
85°	27.6	31.2	39.2	53.0	65.3	46.0	32.4	42.6	53.0	43.5
87.5°	9.8	12.7	13.8	20.8	28.4	19.1	12.5	12.3	17.4	12.9
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°
585.7	0°	585.7	585.7	585.7	585.7	585.7	585.7	585.7	585.7	585.7	585.7
592.1	2.5°	590.0	588.9	584.7	578.9	573.0	567.3	565.4	561.3	558.6	557.1
605.9	5°	601.8	598.4	588.5	575.8	562.4	548.0	537.8	528.5	521.7	515.3
624.7	7.5°	618.8	612.9	595.7	573.4	549.7	525.7	507.9	494.4	485.2	479.3
646.8	10°	638.5	629.4	603.1	569.8	533.1	498.8	477.8	466.2	460.4	457.3
672.0	12.5°	661.2	648.3	610.7	561.6	507.9	468.7	454.3	450.9	451.1	451.3
703.8	15°	689.2	671.1	616.9	543.5	475.1	445.6	443.1	448.6	454.3	457.0
739.8	17.5°	720.8	695.3	617.9	513.9	442.8	430.8	438.8	450.7	459.4	463.2
780.1	20°	754.7	719.9	610.3	471.9	416.3	418.7	433.1	448.4	457.9	462.8
826.1	22.5°	793.5	746.2	592.1	427.8	394.7	405.5	422.5	437.3	447.3	452.2
880.2	25°	837.8	775.7	563.5	390.7	376.1	390.7	407.6	419.9	428.0	432.5
940.6	27.5°	886.9	806.4	525.3	361.2	359.7	375.4	389.4	399.0	403.2	406.6
1004.8	30°	936.3	834.4	479.1	339.0	345.5	360.4	370.3	374.6	375.9	376.5
1076.5	32.5°	989.8	858.5	430.5	320.5	332.0	345.7	351.7	353.6	347.7	343.6
1163.4	35°	1054.4	884.4	383.1	305.9	318.6	330.5	332.4	330.7	323.7	315.4
1272.3	37.5°	1134.3	916.6	345.1	295.5	306.1	314.0	311.6	311.2	311.8	302.1
1403.3	40°	1232.3	958.6	317.3	287.5	295.9	297.6	291.1	294.7	297.8	283.0
1547.1	42.5°	1341.0	1009.3	299.7	281.9	287.5	283.4	273.2	277.3	276.9	257.4
1691.4	45°	1451.9	1064.4	293.6	277.9	279.6	271.6	260.3	261.4	252.5	234.9
1829.9	47.5°	1562.1	1123.5	297.4	274.5	269.9	260.7	252.1	247.4	234.2	221.1
1962.6	50°	1670.2	1185.6	311.4	267.7	256.5	251.2	244.8	236.6	222.6	211.3
2088.1	52.5°	1770.5	1248.2	327.1	256.5	239.8	242.9	238.9	229.4	215.6	204.1
2206.8	55°	1865.5	1310.7	333.2	241.0	224.1	235.7	233.4	215.8	199.3	189.9
2331.0	57.5°	1968.9	1386.0	326.5	221.3	211.3	227.5	218.6	199.1	189.5	182.5
2492.7	60°	2112.2	1504.0	311.8	196.9	199.3	215.2	199.9	191.8	181.5	173.6
2735.3	62.5°	2350.3	1724.3	288.3	172.8	185.1	196.9	191.0	182.9	172.3	164.7
3149.9	65°	2702.2	2030.4	244.0	153.9	169.2	179.1	181.5	173.4	162.4	154.3
3513.2	67.5°	2999.0	2222.5	184.6	138.2	152.8	164.7	171.3	163.4	151.8	143.9
3598.2	70°	2982.6	2083.0	141.0	122.7	138.4	150.5	159.0	152.8	140.3	132.9
3268.4	72.5°	2649.2	1742.5	114.0	107.1	123.8	135.7	145.8	141.2	128.5	121.3
2394.4	75°	1946.2	1236.9	91.2	91.2	105.6	120.2	131.4	128.5	116.8	111.7
1005.2	77.5°	820.4	518.9	71.4	75.7	87.8	103.2	117.2	118.3	108.1	114.5
265.8	80°	218.1	143.1	54.5	59.6	68.9	85.2	102.0	101.5	90.5	84.6
98.8	82.5°	83.1	56.4	38.8	42.0	49.8	65.3	80.8	83.3	72.3	62.5
38.8	85°	32.0	24.2	24.0	25.2	29.0	43.2	61.1	63.2	54.5	46.2
10.8	87.5°	8.3	7.2	8.9	8.5	13.4	23.1	35.0	36.2	33.3	19.3
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>
585.7
558.8
517.9
480.6
458.1
451.7
456.8
464.0
464.0
453.4
433.7
407.9
378.0
344.9
315.9
302.7
283.4
257.1
235.5
221.1
210.5
204.4
189.1
181.9
173.2
164.7
154.7
144.2
133.6
121.3
110.2
103.9
78.6
62.5
47.7
27.6
0.0

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