

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: P945006

Luminaire Tested: **GALN-SB1A-830-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945006
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
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-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3941 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

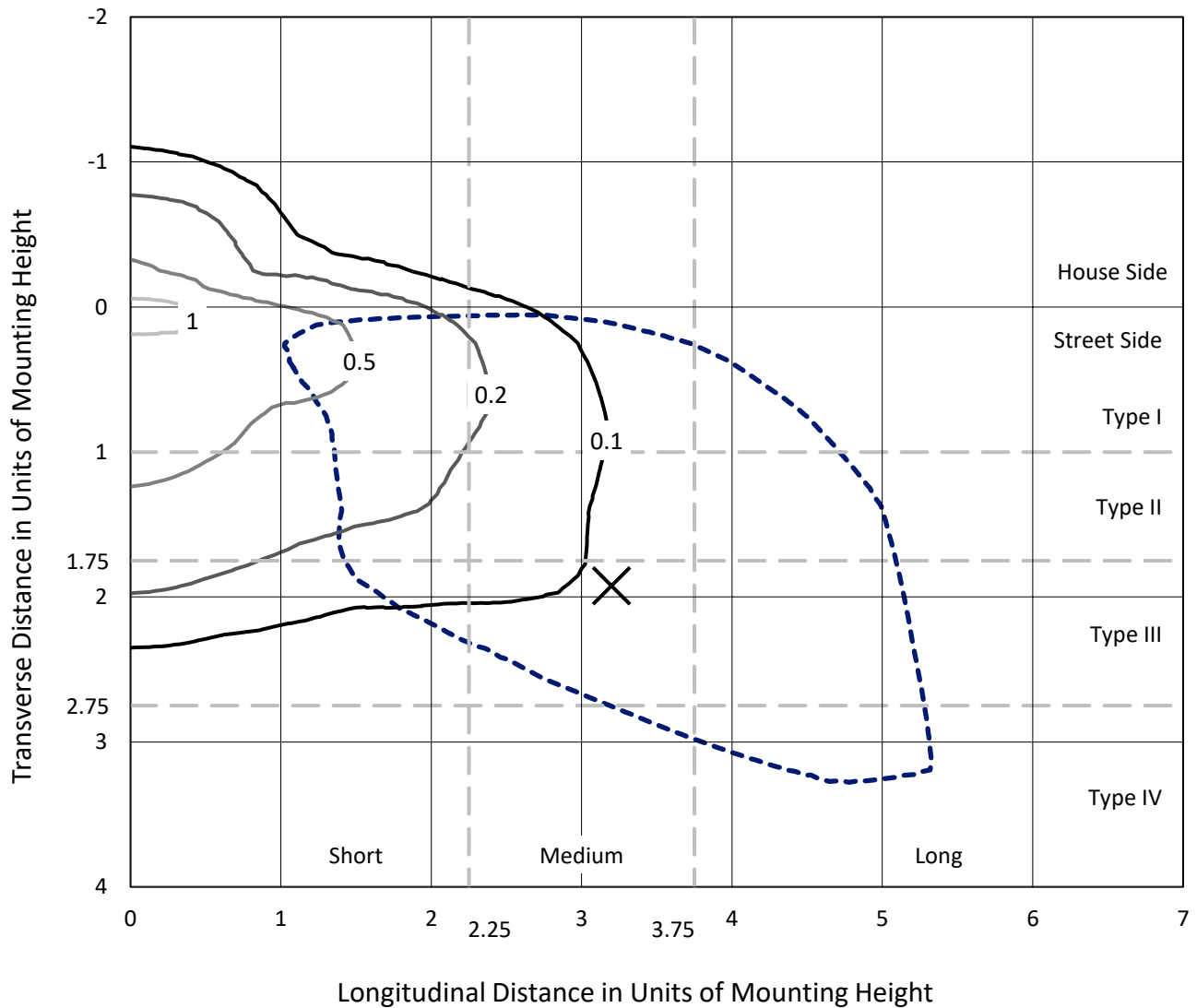
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

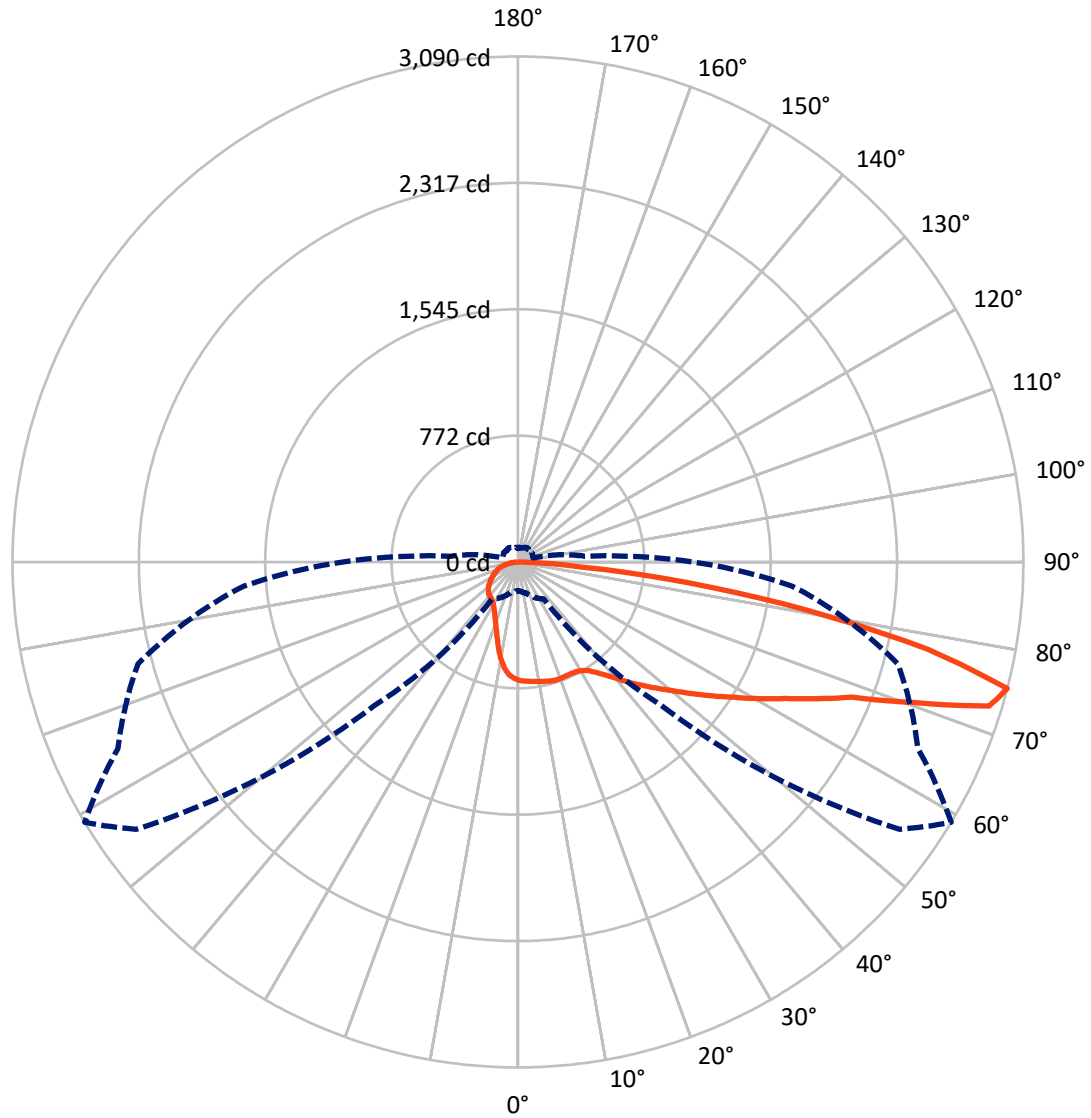
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	739.2	0.0	739.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	3201.8	0.0	3201.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	3941.0	0.0	3941.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.9	1.6
10°-20°	165.8	4.2
20°-30°	251.8	6.4
30°-40°	374.3	9.5
40°-50°	556.7	14.1
50°-60°	755.6	19.2
60°-70°	922.5	23.4
70°-80°	724.0	18.4
80°-90°	125.4	3.2
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°	3941.0	100.0
0°-180°	3941.0	100.0

Coefficient of Utilization



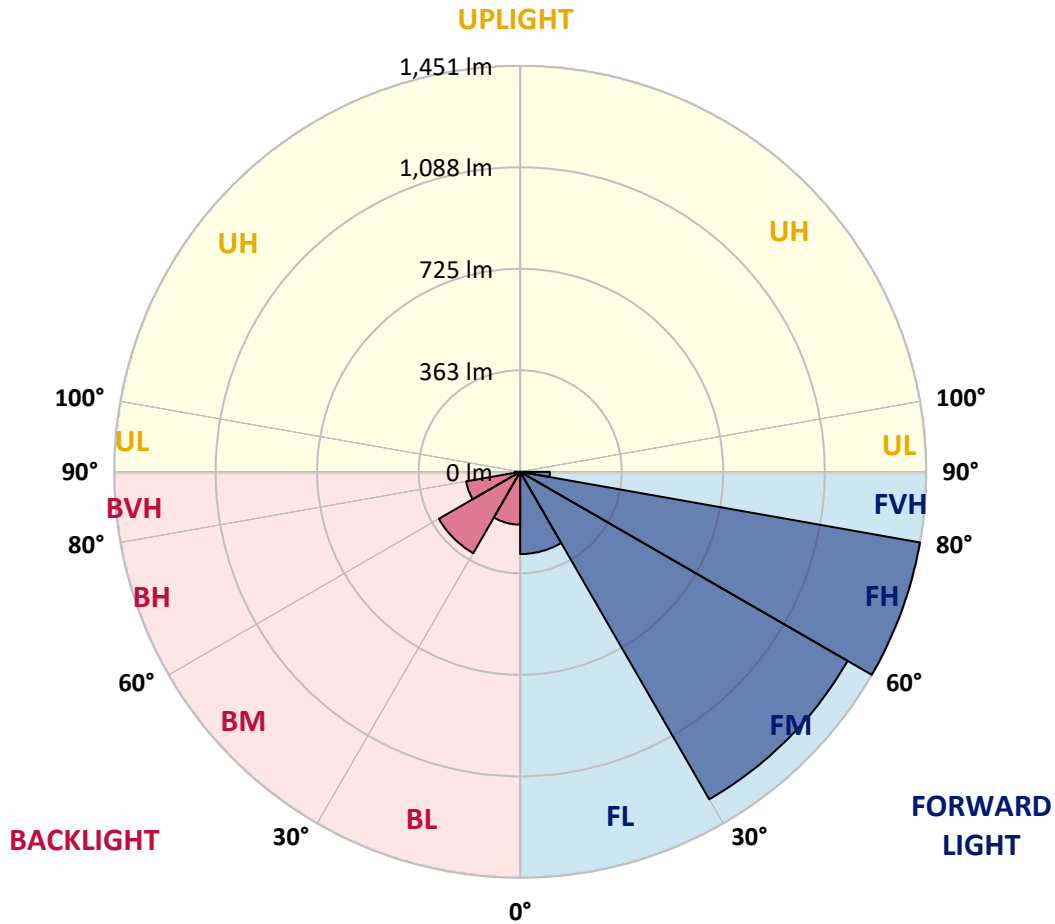
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	293.8	7.5			
FM	(30°-60°)	1351.1	34.3			
FH	(60°-80°)	1450.6	36.8			G1/1800
FVH	(80°-90°)	106.2	2.7			G2/225
BL	(0°-30°)	188.6	4.8	B1/500		
BM	(30°-60°)	335.5	8.5	B1/1000		
BH	(60°-80°)	195.8	5.0	B1/500		G1/500
BVH	(80°-90°)	19.2	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	723.4	723.4	723.4	723.4	723.4	723.4	723.4	723.4	723.4	723.4
2.5°	729.5	727.0	729.5	728.4	728.0	727.2	727.4	728.9	728.0	729.1
5°	724.6	723.1	725.7	725.1	727.8	728.2	731.0	732.7	733.8	734.0
7.5°	716.6	715.1	718.7	721.7	727.6	729.3	735.0	737.8	739.3	741.8
10°	687.1	686.5	695.4	706.6	720.6	729.3	738.0	742.7	745.0	751.8
12.5°	635.0	635.8	647.5	669.1	697.1	725.1	741.4	748.2	751.8	760.3
15°	585.1	584.9	597.6	620.8	660.0	706.4	743.1	754.7	760.9	773.4
17.5°	556.3	555.5	564.4	582.0	618.4	677.8	738.8	758.3	771.5	787.2
20°	551.0	549.3	554.0	562.7	588.5	646.4	727.8	758.3	780.0	800.3
22.5°	570.3	567.5	565.6	564.6	576.0	620.5	715.3	755.8	792.5	819.2
25°	609.1	604.9	595.1	585.6	582.2	608.9	704.3	755.2	811.1	844.6
27.5°	671.8	666.5	646.8	623.9	603.4	614.8	699.4	759.0	831.7	871.6
30°	749.7	743.9	719.1	683.9	647.0	636.9	705.6	770.2	858.0	907.4
32.5°	819.4	813.0	791.8	756.0	706.2	675.0	725.1	791.6	899.3	957.2
35°	881.3	873.9	854.8	821.7	778.7	728.7	760.3	829.6	958.1	1038.2
37.5°	941.9	933.2	912.5	877.5	847.4	800.1	808.8	878.3	1036.1	1136.6
40°	1009.8	997.3	972.0	937.5	908.2	883.8	872.6	938.1	1115.4	1246.4
42.5°	1075.5	1063.6	1033.5	1004.1	967.4	960.4	946.6	1008.1	1202.1	1367.0
45°	1146.3	1132.1	1095.6	1058.3	1035.2	1011.3	1018.3	1078.0	1287.1	1490.0
47.5°	1212.7	1196.8	1153.7	1112.2	1099.5	1054.1	1084.0	1155.0	1375.5	1614.6
50°	1248.5	1232.8	1197.0	1159.5	1149.5	1106.9	1155.2	1239.6	1468.1	1738.9
52.5°	1278.4	1261.4	1214.6	1193.8	1190.8	1164.3	1243.0	1336.3	1560.8	1848.7
55°	1310.2	1291.3	1231.5	1212.9	1226.5	1228.8	1347.1	1445.9	1658.7	1955.7
57.5°	1346.9	1322.9	1247.9	1229.0	1261.2	1304.3	1466.7	1559.5	1755.0	2055.0
60°	1381.4	1357.3	1279.2	1254.6	1298.7	1391.8	1603.8	1697.1	1863.9	2143.4
62.5°	1388.2	1368.3	1304.3	1304.0	1349.6	1494.0	1766.2	1836.0	1959.1	2230.7
65°	1270.8	1258.3	1220.3	1302.1	1422.6	1641.1	1947.1	2013.6	2080.2	2307.0
67.5°	967.2	968.9	966.1	1124.1	1363.6	1852.5	2208.9	2203.8	2229.7	2392.7
70°	442.2	452.2	517.1	775.9	1092.5	1876.9	2641.8	2575.9	2417.3	2503.6
72.5°	238.9	246.6	273.1	375.9	656.8	1668.7	2965.3	3012.2	2666.8	2578.2
75°	175.3	179.6	198.0	238.9	275.8	1240.2	2849.3	3089.8	2698.0	2404.1
77.5°	131.2	133.1	148.2	189.3	141.2	653.8	2276.7	2558.9	2309.6	1975.3
80°	95.2	97.3	108.5	142.0	99.0	239.1	1563.3	1796.1	1581.8	1259.1
82.5°	65.7	66.6	71.4	96.7	69.1	92.9	887.0	1053.2	883.0	441.8
85°	39.6	40.7	42.8	56.4	39.2	44.1	382.9	396.0	263.9	105.6
87.5°	16.3	17.4	19.1	23.7	15.5	12.3	63.2	79.3	49.4	31.0
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°
723.4	0°	723.4	723.4	723.4	723.4	723.4	723.4	723.4	723.4	723.4	723.4
725.5	2.5°	724.4	722.9	718.9	713.4	708.3	701.9	699.2	696.9	694.7	690.7
731.2	5°	728.9	724.8	714.0	700.0	684.1	666.8	649.8	638.1	628.2	620.8
737.8	7.5°	735.7	728.0	708.3	679.7	643.2	605.9	572.2	548.2	530.2	523.7
747.1	10°	742.7	733.5	699.2	648.7	585.8	528.3	483.6	459.0	444.6	439.9
758.1	12.5°	750.9	737.6	685.0	605.7	521.5	458.6	419.6	405.1	397.7	395.2
771.7	15°	763.0	741.0	663.6	551.8	460.3	407.7	382.5	372.5	368.7	368.5
785.7	17.5°	772.1	741.6	630.3	494.2	413.2	376.9	356.2	352.4	354.9	358.7
799.5	20°	782.3	735.9	586.6	441.6	380.1	350.0	341.3	343.9	350.0	355.5
817.7	22.5°	789.5	725.5	533.8	400.7	351.5	334.5	334.1	339.4	342.8	345.6
839.1	25°	795.9	707.9	477.9	366.3	328.0	325.2	329.9	328.2	325.9	328.2
860.5	27.5°	800.5	680.1	427.8	336.2	311.4	318.9	316.1	312.3	312.1	313.3
885.8	30°	799.0	643.0	386.7	307.6	299.8	307.0	300.4	299.8	299.1	299.8
923.7	32.5°	799.0	600.8	355.1	287.9	292.4	289.6	289.0	287.5	284.9	284.7
975.2	35°	803.5	558.6	328.0	277.3	286.2	279.6	280.1	276.5	271.2	268.6
1043.5	37.5°	812.6	524.7	301.0	272.2	275.4	275.2	273.5	267.3	258.0	250.0
1128.7	40°	834.7	514.7	282.6	269.9	270.3	272.9	268.4	256.5	235.3	222.2
1215.2	42.5°	869.2	531.5	278.6	264.2	266.9	269.5	260.8	233.2	218.2	210.3
1306.0	45°	913.1	560.8	287.3	255.9	258.9	263.3	237.4	224.3	217.5	217.7
1395.8	47.5°	968.7	591.5	303.4	248.7	247.2	249.7	222.0	213.9	204.6	206.9
1482.1	50°	1032.9	622.7	318.6	238.9	234.3	226.0	212.0	204.4	192.5	187.0
1565.4	52.5°	1102.4	652.8	324.8	227.1	220.3	210.7	205.2	195.9	181.5	172.4
1644.1	55°	1168.4	680.1	318.0	212.9	206.3	198.9	198.0	192.3	176.8	164.1
1714.1	57.5°	1230.7	703.0	301.0	198.4	192.1	187.6	193.3	190.6	171.1	154.8
1780.2	60°	1283.5	718.7	276.5	183.8	179.4	177.0	185.7	184.9	163.0	144.8
1839.6	62.5°	1325.5	724.8	249.3	169.8	168.8	164.5	175.1	175.1	152.9	135.0
1891.7	65°	1358.3	718.9	221.8	156.0	158.2	151.8	162.2	160.9	142.0	126.4
1951.7	67.5°	1387.4	699.4	191.2	142.5	147.3	139.3	148.6	145.6	130.2	117.7
2003.7	70°	1400.3	654.0	156.5	128.9	134.8	127.0	135.0	129.5	116.8	108.3
1946.6	72.5°	1296.4	543.6	123.2	114.7	119.8	113.4	120.4	114.1	102.4	98.6
1681.0	75°	1072.5	407.9	94.8	99.2	103.0	98.2	102.8	98.2	87.6	90.3
1241.7	77.5°	778.9	275.4	72.5	82.9	84.6	82.0	86.1	80.8	71.2	70.6
618.8	80°	387.3	161.3	56.8	65.5	64.9	63.2	67.8	65.3	57.2	60.6
167.1	82.5°	112.2	69.1	41.3	46.0	44.7	45.2	48.5	49.8	74.6	74.0
51.9	85°	35.2	27.1	24.8	25.7	24.4	25.0	28.6	56.8	52.6	30.7
16.1	87.5°	9.1	9.3	6.1	6.6	6.8	8.1	9.1	34.6	16.5	10.8
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>
723.4
688.8
614.6
512.2
432.7
395.8
369.3
360.2
357.4
347.1
329.7
315.5
302.1
287.5
271.2
252.7
223.9
210.3
218.8
212.9
188.5
172.1
164.1
153.9
144.2
134.4
125.5
116.8
106.6
95.4
82.5
67.4
60.0
75.7
33.3
11.4
0.0

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