

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: P938832

Luminaire Tested: **GALN-SB1A-927-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938832
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-927-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2708 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G1

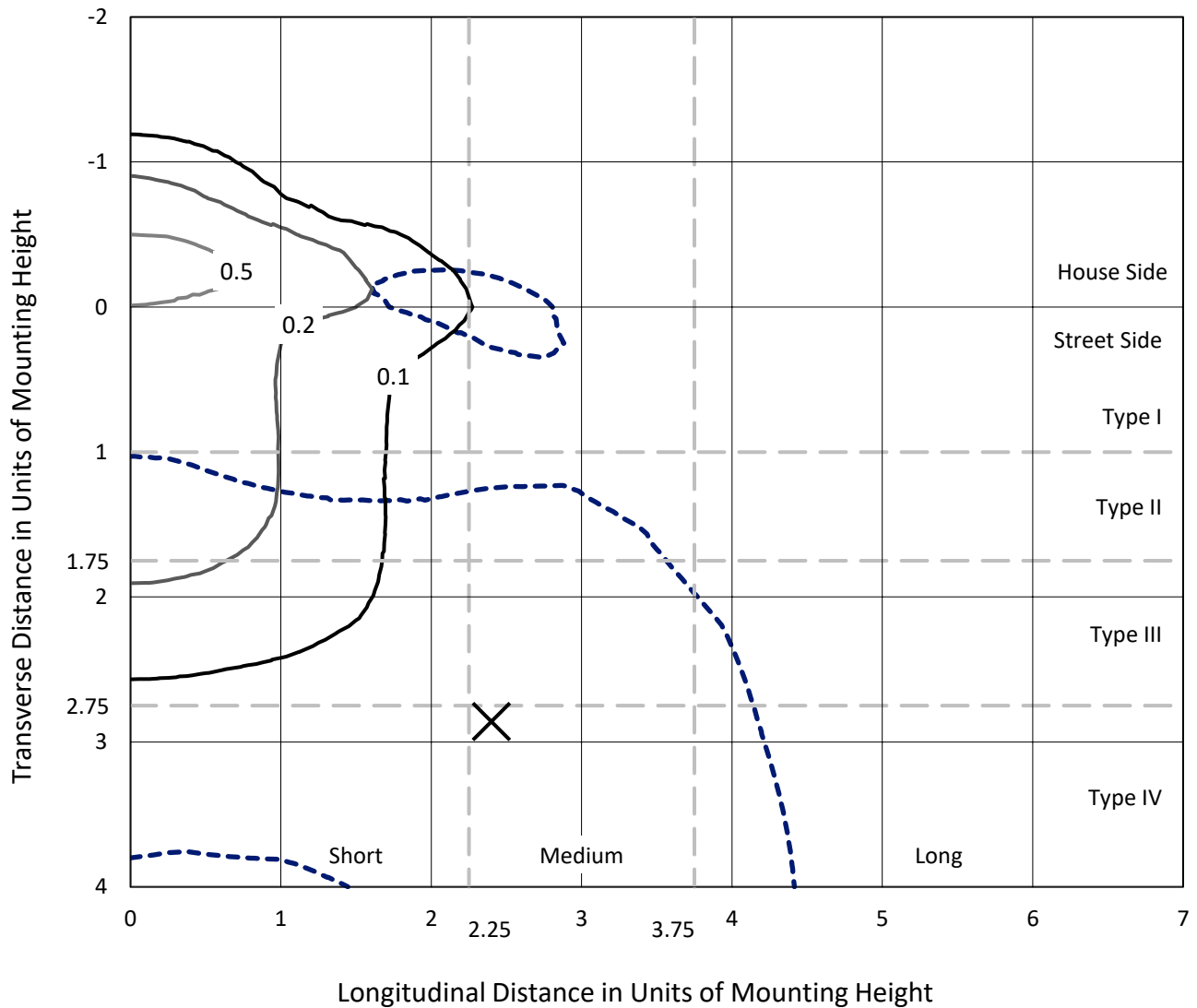
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

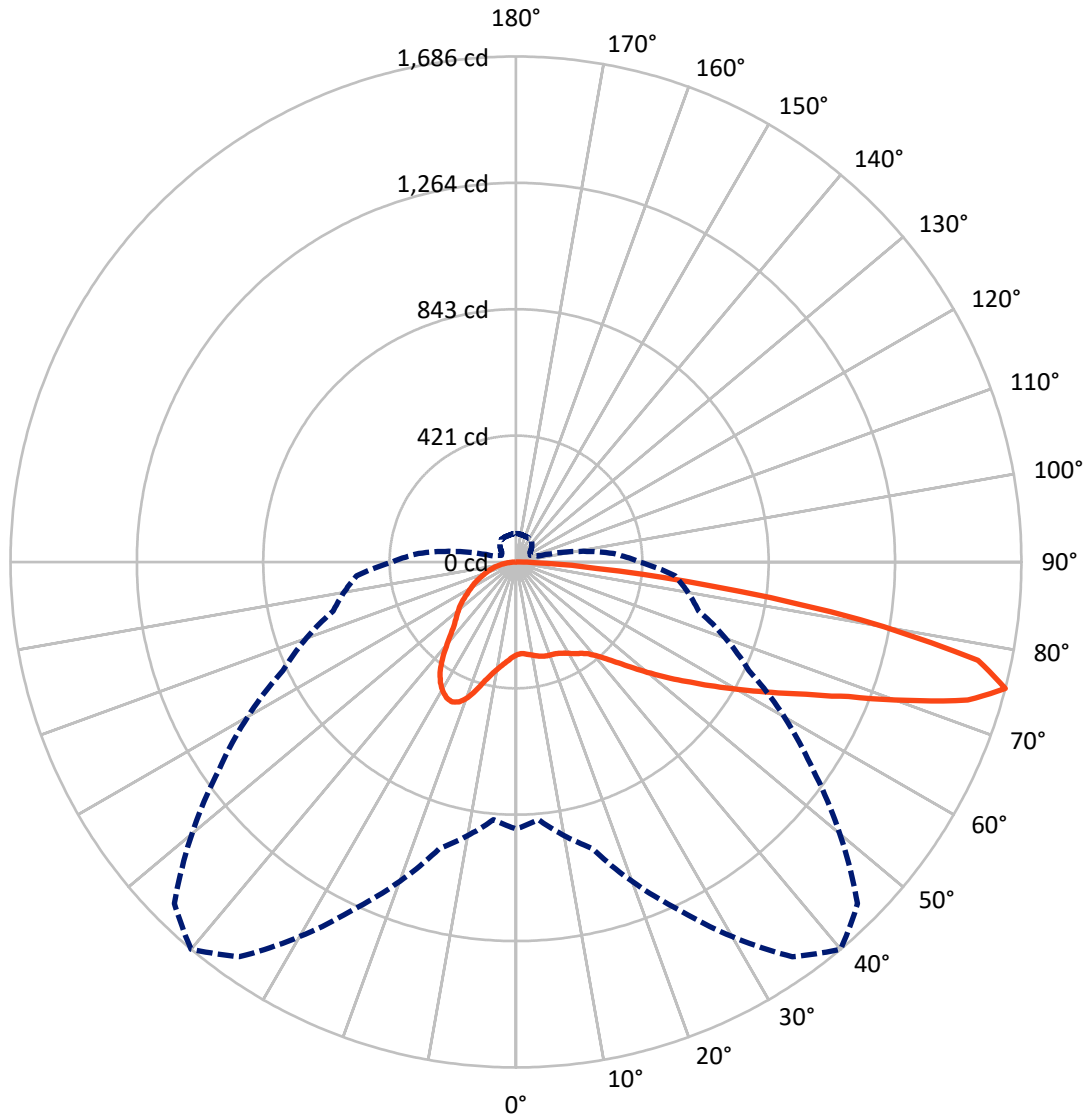
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	839.0	0.0	839.0
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	1869.0	0.0	1869.0
	% Fixture	69.0	0.0	69.0
Total	Lumens	2708.0	0.0	2708.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.9	1.1
10°-20°	103.8	3.8
20°-30°	189.5	7.0
30°-40°	268.8	9.9
40°-50°	362.9	13.4
50°-60°	488.2	18.0
60°-70°	619.6	22.9
70°-80°	562.4	20.8
80°-90°	82.0	3.0
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°	2708.0	100.0
0°-180°	2708.0	100.0

Coefficient of Utilization



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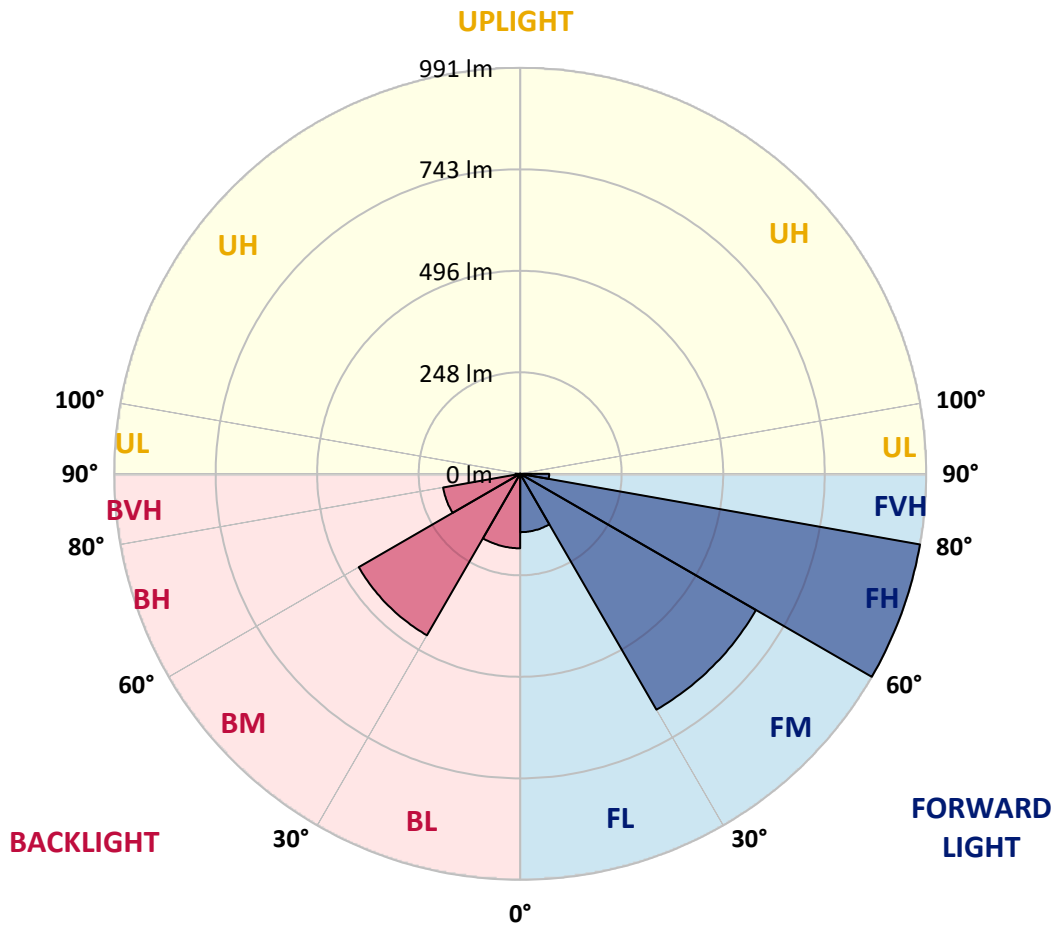
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	142.4	5.3			
FM (30°-60°)	664.8	24.5			
FH (60°-80°)	991.1	36.6			G1/1800
FVH (80°-90°)	70.7	2.6			G1/100
BL (0°-30°)	181.7	6.7	B1/500		
BM (30°-60°)	455.1	16.8	B1/1000		
BH (60°-80°)	190.9	7.0	B1/500		G1/500
BVH (80°-90°)	11.3	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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	309.7	309.7	309.7	309.7	309.7	309.7	309.7	309.7	309.7	309.7
2.5°	304.9	306.6	306.2	305.6	305.6	305.8	305.6	306.6	307.7	308.7
5°	308.1	309.8	308.9	308.2	307.7	307.5	307.1	306.9	307.5	308.8
7.5°	314.3	316.0	314.7	313.4	312.2	311.7	311.1	310.2	309.8	310.5
10°	321.2	322.9	321.3	319.0	317.1	316.4	315.8	315.0	314.4	314.8
12.5°	328.0	329.8	327.6	324.5	322.0	321.6	320.9	320.6	320.4	320.3
15°	334.5	335.9	333.2	329.5	326.9	326.2	325.5	325.9	326.6	327.5
17.5°	339.5	341.0	337.0	332.1	329.6	329.3	328.9	330.3	332.4	334.5
20°	344.1	345.6	340.4	333.8	330.9	330.9	331.1	334.1	337.0	340.1
22.5°	350.6	351.7	345.4	336.4	332.2	332.5	333.6	336.7	340.3	344.6
25°	360.2	361.1	353.3	341.3	336.5	337.4	338.4	339.8	343.3	348.3
27.5°	375.7	376.5	366.3	349.9	342.7	344.1	345.6	344.6	346.1	350.5
30°	397.6	398.0	385.1	363.4	353.2	353.9	354.2	350.0	347.0	350.5
32.5°	423.4	423.3	407.9	379.8	365.1	364.4	361.9	353.8	346.7	349.7
35°	463.5	461.9	442.1	402.7	378.6	374.2	368.4	357.9	348.2	349.0
37.5°	529.8	525.0	497.5	440.4	398.7	387.4	378.9	364.7	351.3	348.7
40°	604.7	598.5	568.3	491.9	428.9	410.6	397.0	374.3	356.5	350.0
42.5°	693.4	684.7	652.2	552.7	467.1	440.7	420.1	386.5	364.1	354.2
45°	802.5	790.8	744.9	621.2	515.2	480.0	452.6	405.0	375.7	362.2
47.5°	912.6	915.5	850.1	699.6	572.9	528.6	493.2	432.9	392.7	375.2
50°	1029.7	1031.7	954.8	786.5	638.4	583.4	538.9	464.1	416.2	393.5
52.5°	1121.0	1121.3	1049.9	877.4	706.7	643.7	588.2	499.7	443.5	418.0
55°	1178.2	1177.5	1116.6	963.5	785.1	707.1	642.7	540.2	476.8	446.7
57.5°	1219.7	1217.5	1162.5	1037.4	868.7	781.9	704.5	586.1	516.2	480.9
60°	1235.5	1234.2	1193.7	1101.3	956.6	864.6	775.7	637.6	560.9	521.2
62.5°	1241.5	1244.0	1224.3	1163.2	1050.6	956.3	854.0	699.0	611.1	566.9
65°	1262.8	1267.2	1263.2	1244.3	1156.9	1063.6	957.9	772.1	666.0	615.9
67.5°	1304.9	1309.3	1311.0	1341.2	1286.8	1197.3	1087.4	863.2	730.2	666.7
70°	1303.9	1302.6	1333.0	1418.3	1449.4	1382.4	1262.1	975.2	806.8	709.0
72.5°	1186.8	1176.5	1248.4	1417.5	1584.7	1575.8	1475.4	1119.7	872.8	714.1
75°	890.4	862.8	989.9	1277.4	1607.2	1685.5	1610.9	1209.4	857.2	631.0
77.5°	380.8	353.0	502.8	945.7	1438.4	1575.6	1486.6	1055.1	684.2	417.2
80°	99.7	99.5	152.0	428.7	978.3	1163.5	1020.8	681.4	391.0	149.1
82.5°	41.2	40.2	55.9	166.8	478.0	652.9	532.9	303.9	141.2	40.4
85°	15.4	15.2	27.1	57.6	168.6	269.3	194.9	77.7	35.2	19.7
87.5°	4.3	4.2	5.9	20.0	41.1	62.3	33.3	12.8	9.9	7.8
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°
309.7	0°	309.7	309.7	309.7	309.7	309.7	309.7	309.7	309.7	309.7	309.7
310.2	2.5°	310.7	311.4	312.7	313.7	315.0	316.4	318.4	319.7	321.0	321.9
311.0	5°	312.0	313.5	316.8	320.1	324.0	327.6	331.8	334.8	337.2	338.0
313.5	7.5°	314.8	317.4	323.0	328.6	334.8	340.7	346.7	351.9	356.1	357.6
318.1	10°	319.9	323.3	331.2	339.1	347.3	356.3	364.1	371.6	377.5	379.9
323.6	12.5°	326.2	330.5	340.8	351.7	363.1	375.6	385.6	394.8	402.2	405.5
331.2	15°	334.4	340.0	353.2	367.8	384.5	401.9	414.7	424.9	433.0	437.1
339.1	17.5°	343.3	350.7	367.4	389.5	413.4	436.2	451.1	458.6	467.1	471.0
346.4	20°	351.9	361.1	384.9	417.1	448.8	473.1	485.2	487.2	487.8	488.2
353.3	22.5°	360.8	373.1	406.9	451.9	485.9	502.7	504.4	495.8	483.7	478.1
360.1	25°	370.6	386.9	435.6	490.2	517.8	519.8	506.6	485.6	462.8	452.3
365.5	27.5°	380.0	402.9	470.1	526.8	540.8	523.1	494.7	464.9	437.3	426.3
369.4	30°	389.5	421.1	508.2	558.9	551.2	514.9	475.8	442.7	414.9	403.3
372.9	32.5°	399.1	442.4	552.0	582.0	549.4	497.5	452.4	417.7	393.3	381.0
375.9	35°	410.1	468.5	593.5	594.6	536.9	472.0	421.6	387.8	366.5	356.8
379.5	37.5°	424.3	501.7	630.1	597.8	515.1	434.5	383.2	352.5	334.9	330.5
384.8	40°	441.9	541.6	658.1	592.8	482.7	388.9	341.3	316.7	306.8	307.8
392.0	42.5°	464.9	586.3	677.8	579.8	437.8	342.0	304.5	293.6	298.3	302.3
402.7	45°	494.8	632.7	690.0	557.9	386.9	302.2	282.8	285.4	289.0	289.4
420.1	47.5°	533.0	679.7	698.0	524.7	335.1	274.2	269.0	269.6	268.9	265.9
446.1	50°	580.7	725.3	705.2	480.7	291.0	256.7	249.8	247.8	237.8	228.1
480.7	52.5°	635.0	767.3	708.2	426.1	256.7	242.0	230.8	218.2	199.6	196.6
524.2	55°	695.3	806.0	700.5	359.1	227.8	223.2	206.3	191.0	189.0	186.4
581.6	57.5°	767.4	847.8	684.7	284.2	198.2	201.2	184.7	186.4	182.8	178.8
655.2	60°	846.3	891.1	657.0	216.0	167.6	173.8	179.1	179.0	178.0	174.7
732.9	62.5°	917.2	919.5	602.4	165.5	140.8	152.5	167.0	166.9	166.0	164.2
814.1	65°	959.4	915.2	511.3	130.3	118.6	135.0	150.7	151.8	152.0	151.8
875.1	67.5°	952.0	864.8	386.4	103.7	100.4	117.2	134.4	136.0	137.2	137.5
882.9	70°	867.5	754.1	251.9	82.7	84.2	101.5	119.1	120.6	121.7	122.8
766.1	72.5°	676.2	554.4	144.2	66.9	69.9	88.0	103.8	105.7	106.3	108.4
533.1	75°	412.1	326.0	77.8	52.7	57.5	75.3	88.8	90.9	91.9	94.5
261.8	77.5°	195.9	141.2	44.4	41.1	46.2	61.5	75.0	77.4	74.7	76.1
72.2	80°	66.2	52.4	28.0	31.3	35.3	48.0	60.0	62.5	56.7	56.4
24.0	82.5°	23.1	21.3	17.8	20.8	22.8	34.3	45.4	48.5	42.2	42.1
10.8	85°	9.0	8.6	9.9	11.3	13.6	21.1	29.9	31.5	26.0	21.0
3.2	87.5°	1.9	2.0	2.4	2.6	4.2	7.3	10.8	13.2	10.5	8.9
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°
309.7
321.3
338.2
357.8
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405.5
436.8
470.8
489.3
479.7
453.9
427.6
404.6
382.6
358.9
333.6
311.2
306.1
292.3
268.2
229.4
197.6
186.9
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