

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: P938831

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938831
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-10)
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-HSS
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 WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1907 lumens
Efficiency: N/A
Efficacy: 61.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

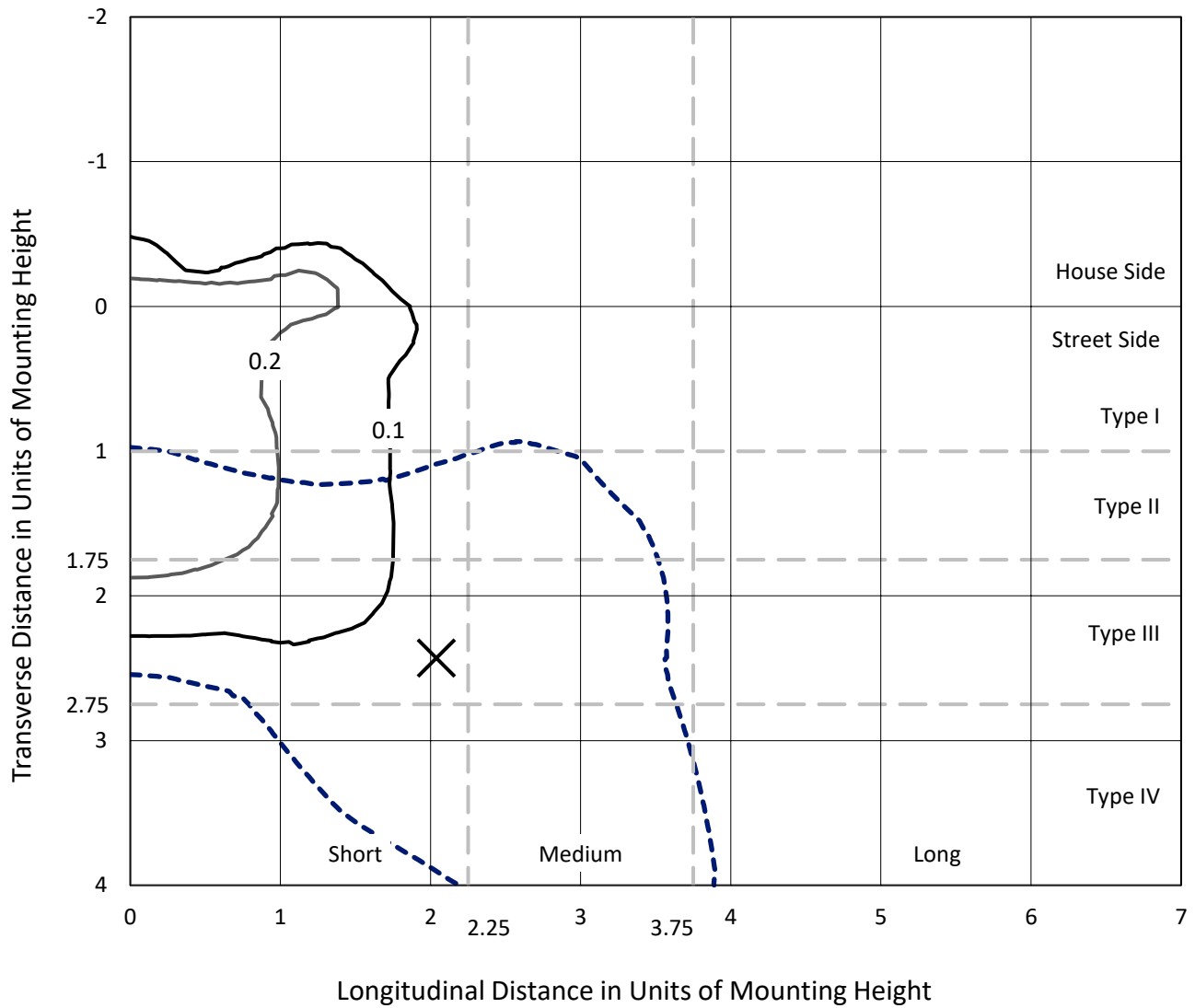
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

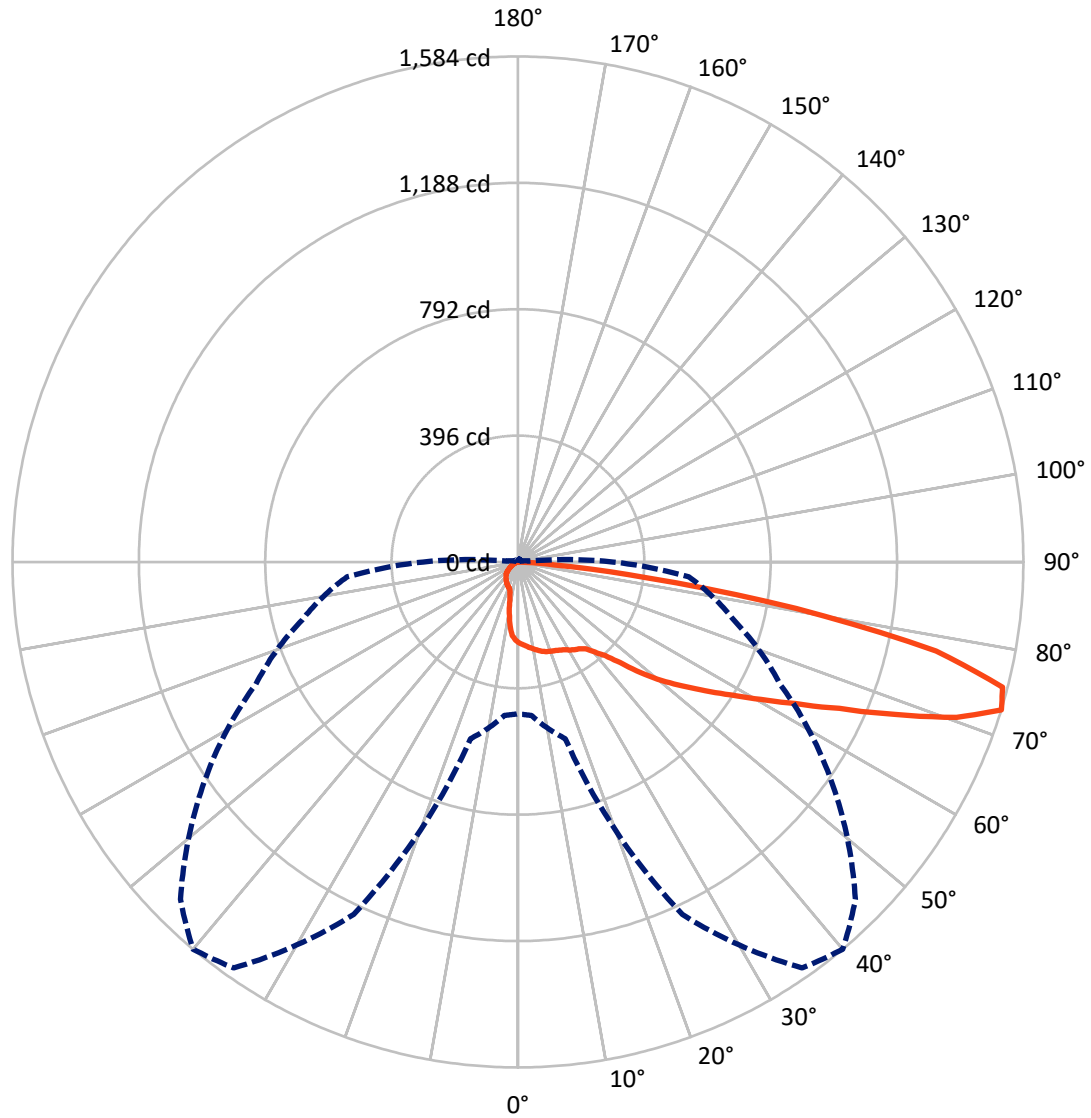
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	246.3	0.0	246.3
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	1660.7	0.0	1660.7
	% Fixture	87.1	0.0	87.1
Total	Lumens	1907.0	0.0	1907.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.1	1.2
10°-20°	62.6	3.3
20°-30°	101.3	5.3
30°-40°	149.6	7.8
40°-50°	251.8	13.2
50°-60°	390.9	20.5
60°-70°	489.2	25.7
70°-80°	400.5	21.0
80°-90°	38.0	2.0
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°	1907.0	100.0
0°-180°	1907.0	100.0

Coefficient of Utilization



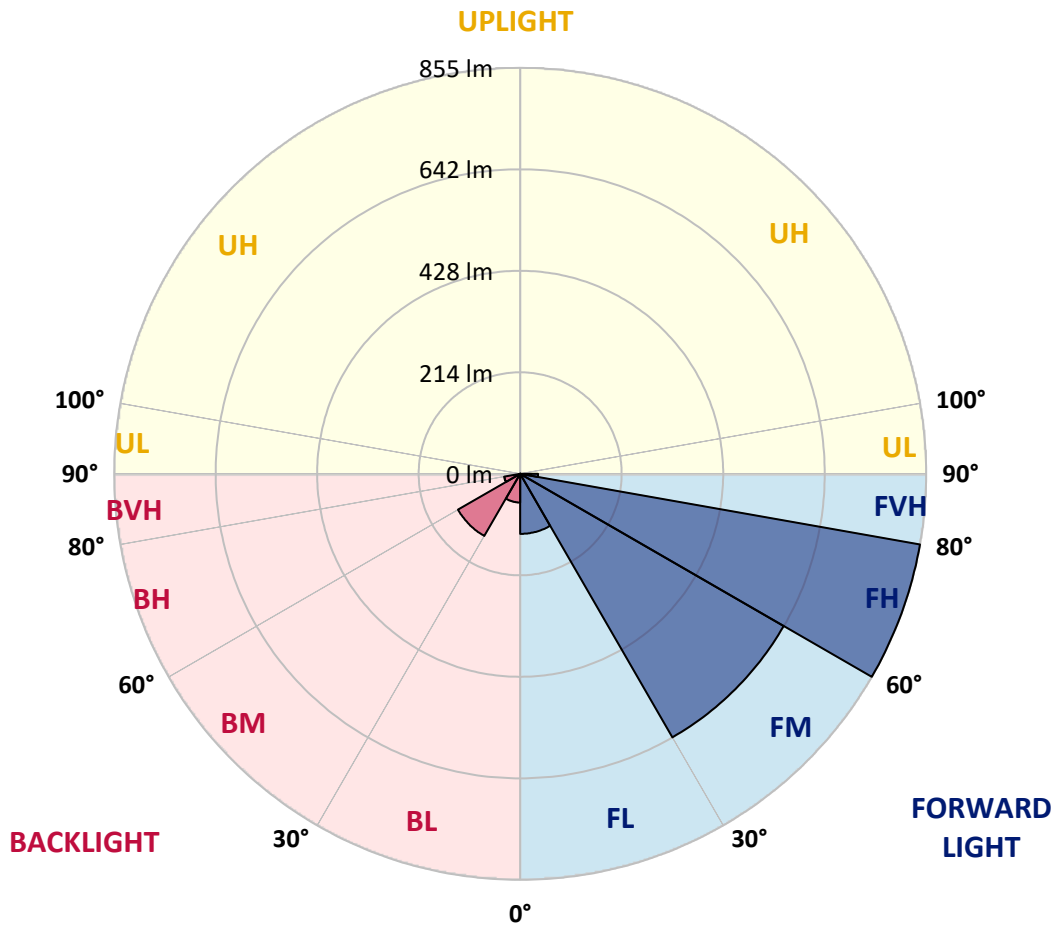
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	126.6	6.6			
FM (30°-60°)	641.1	33.6			
FH (60°-80°)	855.4	44.9			G1/1800
FVH (80°-90°)	37.7	2.0			G1/100
BL (0°-30°)	60.4	3.2	B0/110		
BM (30°-60°)	151.2	7.9	B0/220		
BH (60°-80°)	34.3	1.8	B0/110		G0/110
BVH (80°-90°)	0.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	252.5	252.5	252.5	252.5	252.5	252.5	252.5	252.5	252.5	252.5
2.5°	260.1	261.1	260.5	259.4	259.1	258.5	257.8	257.5	256.5	255.7
5°	267.4	268.4	267.7	266.1	265.4	264.7	263.7	262.8	260.8	259.0
7.5°	275.5	276.3	275.5	273.2	272.0	271.2	269.7	268.4	266.1	263.4
10°	284.4	285.1	283.8	280.8	278.9	277.6	276.3	274.9	272.8	269.7
12.5°	292.7	293.6	291.6	288.0	285.8	284.5	283.1	281.9	279.8	276.9
15°	300.3	301.6	298.2	294.3	291.9	290.9	289.4	288.7	287.3	285.2
17.5°	306.1	306.9	303.3	298.8	296.0	295.3	294.3	294.7	294.4	293.4
20°	311.0	311.5	306.8	301.2	298.2	298.3	298.0	299.5	300.0	300.0
22.5°	317.0	317.1	311.1	304.1	300.5	301.5	301.9	303.5	304.6	305.8
25°	324.9	324.6	317.4	307.8	304.6	306.1	307.1	307.7	308.9	310.8
27.5°	336.7	335.8	326.6	313.8	310.1	311.4	313.3	313.0	312.4	313.8
30°	351.6	350.5	338.2	322.3	318.9	320.0	320.6	318.0	313.8	315.1
32.5°	375.3	373.3	356.3	331.8	326.5	327.8	327.0	321.7	315.6	316.8
35°	416.5	411.6	387.7	351.6	335.1	333.7	331.9	326.8	319.1	317.9
37.5°	504.1	495.5	454.6	390.2	354.6	345.3	340.0	334.8	323.0	317.9
40°	603.0	594.2	546.9	454.9	387.1	371.3	358.6	344.3	327.0	319.7
42.5°	706.1	696.5	647.9	535.0	433.5	401.0	377.5	351.9	333.7	325.5
45°	821.3	809.2	745.7	618.6	500.8	450.4	407.8	367.6	345.1	335.7
47.5°	942.8	927.1	843.3	699.8	573.4	518.8	463.2	395.6	362.1	350.9
50°	1050.5	1035.0	943.9	784.7	641.2	583.9	526.4	434.3	387.5	372.4
52.5°	1127.9	1116.2	1035.6	872.3	711.7	644.9	583.7	479.4	419.7	400.0
55°	1179.8	1169.0	1100.5	955.3	793.7	712.1	640.2	528.4	458.5	433.0
57.5°	1211.2	1205.1	1147.5	1029.4	875.0	785.7	704.8	582.3	504.1	472.0
60°	1222.4	1217.4	1176.6	1100.1	973.2	874.0	780.8	643.0	559.6	516.2
62.5°	1192.6	1193.6	1197.6	1183.8	1076.8	977.4	871.8	716.0	621.1	566.3
65°	1051.9	1060.3	1136.7	1276.6	1214.0	1107.0	987.7	805.0	691.4	623.4
67.5°	871.0	883.0	978.1	1330.9	1360.2	1275.2	1149.2	918.5	775.3	681.4
70°	666.7	679.7	794.9	1319.5	1497.1	1459.0	1348.8	1062.9	862.2	721.6
72.5°	475.8	482.5	573.2	1218.6	1553.2	1584.2	1495.9	1199.6	906.6	699.3
75°	334.4	333.2	393.4	981.3	1465.7	1569.0	1444.3	1125.6	820.4	555.6
77.5°	145.6	145.9	196.5	595.9	1169.9	1340.1	1200.6	705.1	571.9	294.4
80°	37.8	38.9	72.1	237.3	704.4	884.5	732.2	310.0	264.3	71.8
82.5°	13.4	14.2	33.2	74.5	259.8	405.6	326.0	99.1	68.9	20.5
85°	3.9	4.6	17.8	22.8	53.7	114.6	79.1	19.2	16.9	10.6
87.5°	0.0	0.6	3.6	3.2	3.2	2.2	4.0	2.2	2.7	1.3
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°
252.5	0°	252.5	252.5	252.5	252.5	252.5	252.5	252.5	252.5	252.5	252.5
254.7	2.5°	253.8	252.8	250.6	248.3	246.2	244.2	243.6	241.4	240.4	240.6
256.7	5°	255.1	253.2	249.1	244.0	238.9	233.0	228.1	221.2	215.3	214.6
260.5	7.5°	258.5	255.5	248.8	239.0	226.1	209.8	194.8	179.8	171.4	166.8
266.3	10°	263.8	259.8	249.5	230.8	203.4	174.4	151.5	132.7	123.1	118.6
273.3	12.5°	270.2	265.7	250.6	216.9	174.1	136.0	111.3	99.8	97.8	97.5
281.9	15°	279.1	274.2	251.9	198.1	142.3	103.6	92.2	92.4	93.9	94.8
291.3	17.5°	289.0	284.1	250.1	175.1	111.0	88.5	88.2	89.5	91.8	92.6
299.9	20°	299.0	294.4	243.5	148.1	89.8	84.3	85.5	86.9	89.2	90.3
308.4	22.5°	309.4	305.4	233.0	119.4	81.0	81.3	82.7	84.2	86.8	88.0
316.7	25°	320.4	317.0	219.0	95.7	77.3	78.1	80.0	81.7	84.5	86.0
323.7	27.5°	331.6	329.1	203.2	79.9	73.8	74.8	77.0	79.3	82.0	83.9
329.9	30°	343.9	342.4	190.6	74.0	70.5	71.4	73.8	76.4	79.4	81.7
336.1	32.5°	356.3	356.1	184.4	78.3	67.5	68.1	70.2	72.8	76.6	79.4
341.3	35°	368.7	369.3	180.8	90.5	66.5	64.9	66.4	68.7	73.1	76.7
347.2	37.5°	384.5	385.9	180.7	103.7	68.9	61.8	62.8	64.3	68.2	72.4
356.3	40°	408.1	415.7	189.9	115.0	73.3	58.9	59.2	59.5	61.5	64.9
368.6	42.5°	439.4	461.6	223.1	122.8	75.0	56.3	55.3	53.7	53.4	55.3
385.2	45°	478.3	517.2	281.4	127.1	73.3	53.4	50.7	46.5	45.0	46.2
407.8	47.5°	524.1	578.1	350.5	128.1	70.4	49.8	45.0	39.5	38.2	38.6
438.1	50°	568.8	623.8	411.2	119.8	65.6	45.2	38.6	34.0	33.2	33.3
473.8	52.5°	608.3	639.4	428.4	100.1	59.3	39.6	33.2	30.0	29.4	29.4
513.3	55°	634.4	622.5	382.1	76.6	51.4	33.9	28.4	26.9	26.6	26.4
557.4	57.5°	639.9	567.3	288.6	55.3	40.2	28.6	25.3	24.4	23.8	23.3
602.7	60°	620.3	475.4	183.7	38.6	30.2	24.4	22.4	21.8	20.7	19.5
645.2	62.5°	578.1	359.1	101.7	26.9	24.3	20.8	19.8	19.1	16.9	15.1
678.9	65°	521.4	238.7	45.0	21.0	19.8	17.5	16.9	15.9	13.4	11.2
691.7	67.5°	464.4	137.5	20.3	16.8	15.9	14.4	13.9	13.2	11.3	9.3
659.1	70°	399.3	69.7	13.9	13.4	12.4	10.9	11.3	11.2	9.3	7.6
537.6	72.5°	297.3	34.6	10.5	10.1	8.9	7.8	9.3	9.2	7.3	5.7
331.5	75°	168.3	17.1	7.6	7.0	5.3	5.7	7.5	7.0	5.0	3.7
139.9	77.5°	66.8	8.8	5.0	4.3	3.2	3.9	5.5	4.7	2.6	1.6
26.7	80°	15.4	4.3	2.6	1.9	1.4	2.3	2.9	1.7	0.7	0.1
7.2	82.5°	4.3	1.9	0.9	0.7	0.7	0.9	0.7	0.3	0.0	0.0
1.9	85°	1.4	0.9	0.3	0.1	0.1	0.1	0.1	0.0	0.0	0.0
0.6	87.5°	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°
252.5
240.4
214.2
166.5
117.8
97.4
94.7
92.5
90.3
88.0
86.0
84.0
82.0
79.7
77.3
73.1
66.1
56.3
46.2
38.5
33.3
29.3
26.1
23.0
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