

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: P938839

Luminaire Tested: **GALN-SB1A-927-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938839
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
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-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2700 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

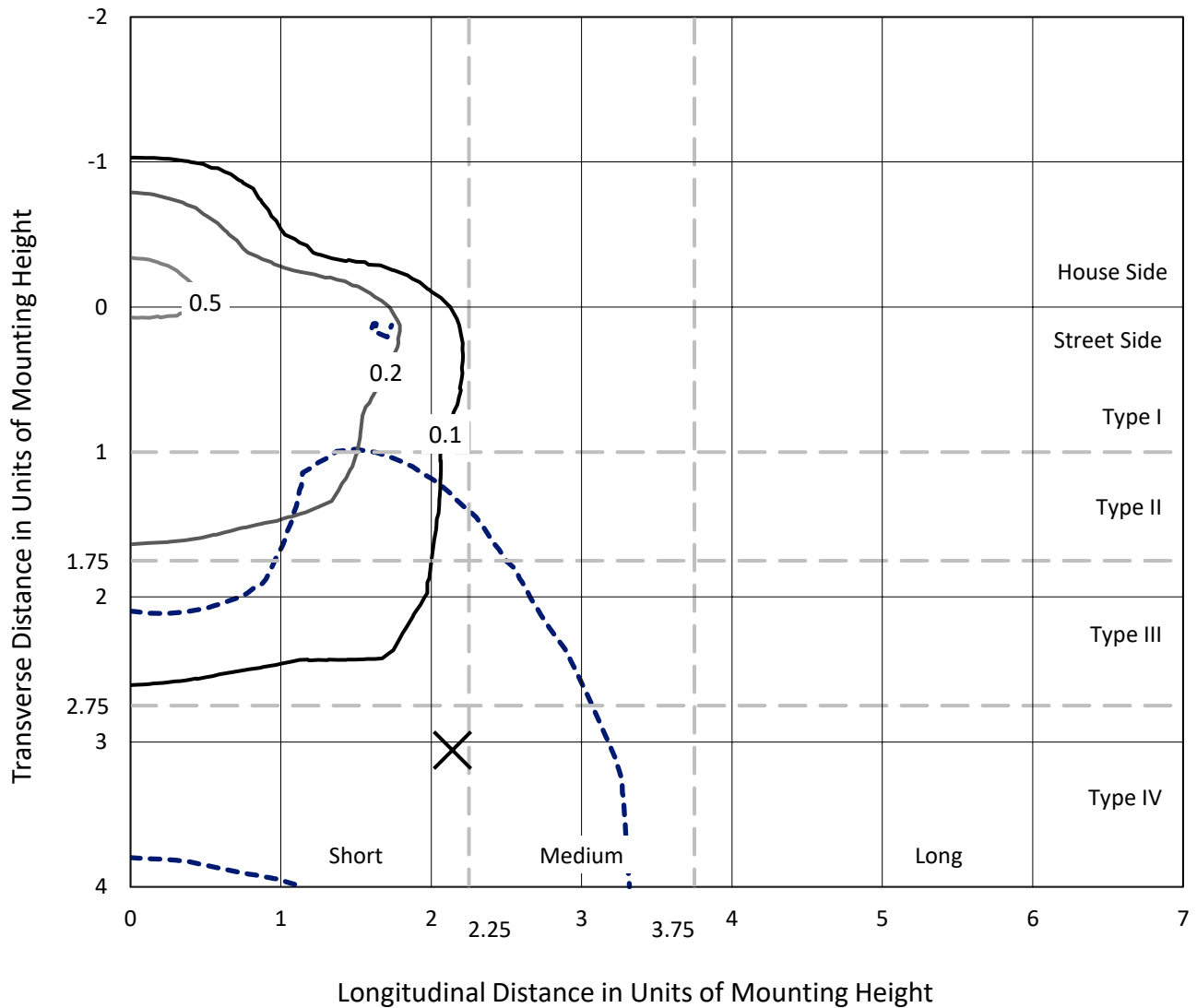
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

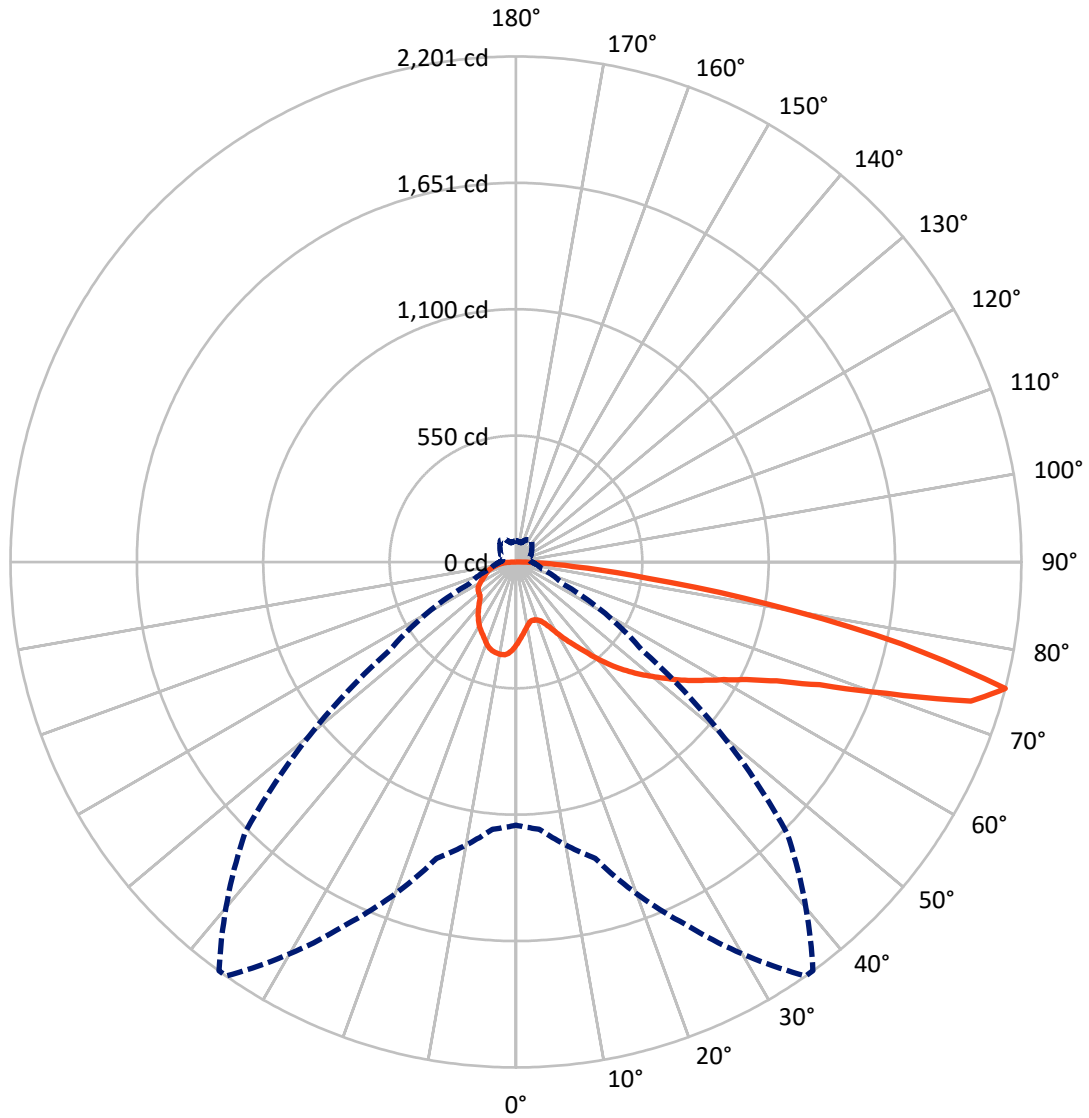
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	642.5	0.0	642.5
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	2057.5	0.0	2057.5
	% Fixture	76.2	0.0	76.2
Total	Lumens	2700.0	0.0	2700.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.1	1.3
10°-20°	98.3	3.6
20°-30°	165.0	6.1
30°-40°	256.4	9.5
40°-50°	380.6	14.1
50°-60°	525.5	19.5
60°-70°	637.5	23.6
70°-80°	526.9	19.5
80°-90°	75.8	2.8
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°	2700.0	100.0
0°-180°	2700.0	100.0

Coefficient of Utilization



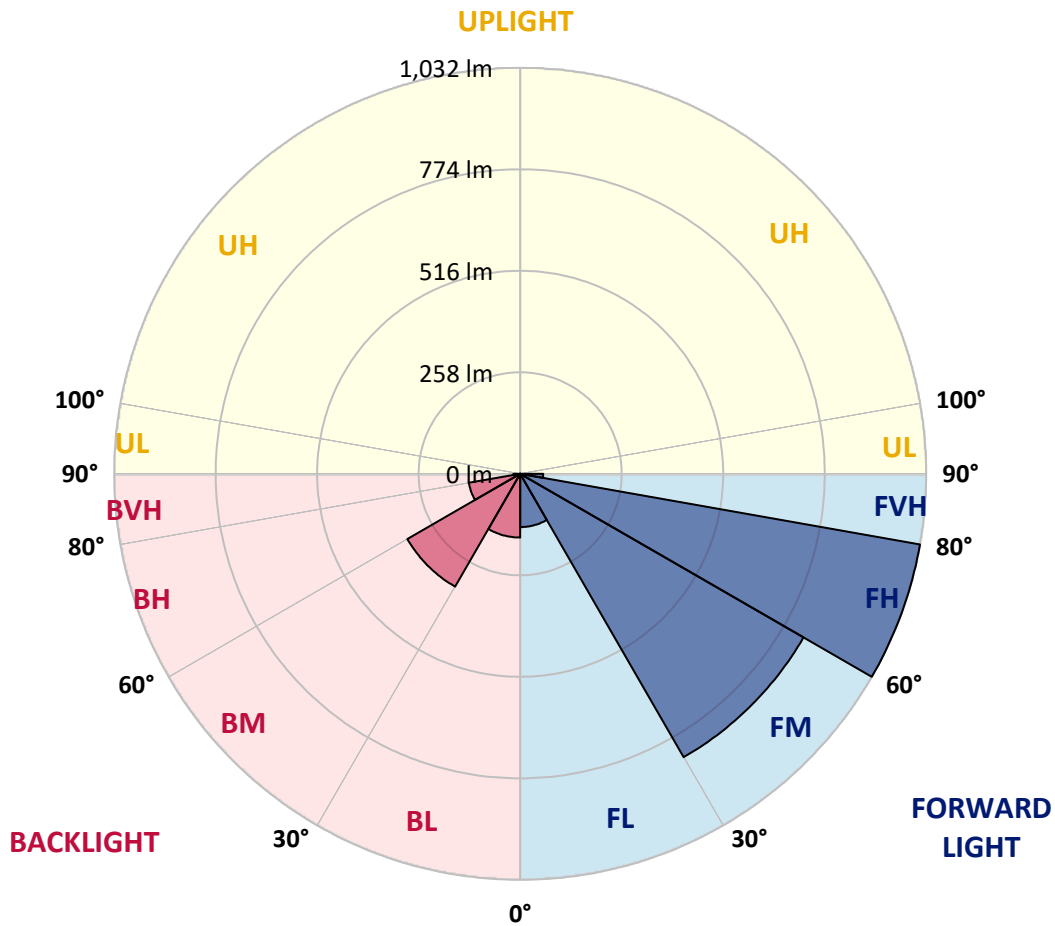
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	135.4	5.0			
FM	(30°-60°)	831.5	30.8			
FH	(60°-80°)	1031.9	38.2			G1/1800
FVH	(80°-90°)	58.7	2.2			G1/100
BL	(0°-30°)	161.9	6.0	B1/500		
BM	(30°-60°)	331.1	12.3	B1/1000		
BH	(60°-80°)	132.5	4.9	B1/500		G1/500
BVH	(80°-90°)	17.1	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	359.8	359.8	359.8	359.8	359.8	359.8	359.8	359.8	359.8	359.8
2.5°	331.8	333.8	334.7	334.3	336.4	336.1	339.2	343.0	348.3	353.4
5°	306.2	308.4	310.3	312.1	316.3	317.6	322.4	329.7	339.4	349.1
7.5°	282.4	284.3	287.3	290.5	297.6	298.9	307.0	318.3	331.8	346.1
10°	263.0	264.9	268.0	271.6	280.5	282.1	292.4	307.5	325.1	343.2
12.5°	254.7	255.3	257.0	260.7	268.4	269.4	280.7	298.1	318.5	341.0
15°	254.3	255.4	255.6	257.5	263.9	264.3	274.7	291.9	314.4	340.5
17.5°	258.6	259.5	258.2	259.4	264.8	265.5	273.7	289.0	313.1	342.4
20°	270.3	271.0	267.1	265.5	269.4	270.0	278.1	290.9	314.4	346.4
22.5°	295.1	295.6	285.9	279.4	279.7	280.0	287.0	298.6	319.5	353.5
25°	333.8	333.5	318.2	305.5	298.2	296.6	301.3	311.2	328.1	363.0
27.5°	379.1	376.9	361.5	342.6	326.7	324.3	323.3	327.5	340.4	375.6
30°	430.1	428.1	411.6	386.8	364.8	361.0	351.3	349.1	358.6	392.6
32.5°	486.2	484.9	465.2	435.1	405.6	401.2	385.0	379.2	386.7	418.5
35°	533.2	532.0	515.7	484.7	448.7	443.3	426.8	420.2	424.0	451.6
37.5°	575.7	575.1	561.1	536.7	499.5	492.9	474.4	472.2	471.5	495.2
40°	615.1	613.6	599.0	586.2	558.6	552.6	536.3	534.4	528.8	549.0
42.5°	658.7	654.9	633.8	627.8	620.3	615.4	605.6	605.9	593.6	609.5
45°	694.3	692.1	670.4	666.9	674.9	672.9	681.3	683.5	659.7	673.0
47.5°	732.6	730.5	712.1	709.7	731.4	732.0	761.9	762.6	724.3	739.0
50°	779.7	776.8	758.6	761.6	786.0	788.2	842.9	838.0	783.7	806.0
52.5°	810.8	812.6	808.6	813.6	846.9	848.9	922.6	909.9	842.5	872.1
55°	833.7	837.2	849.5	860.9	911.1	913.1	997.8	978.4	891.2	933.4
57.5°	863.2	858.2	881.2	903.4	972.1	977.5	1070.9	1044.3	934.4	986.3
60°	905.5	902.0	919.8	952.7	1040.4	1049.0	1148.3	1103.8	966.1	1028.1
62.5°	991.4	982.6	985.4	1014.4	1126.5	1137.9	1235.6	1155.6	981.9	1044.5
65°	1119.7	1104.6	1090.6	1110.8	1247.8	1259.1	1334.1	1196.3	976.0	1012.8
67.5°	1281.2	1266.4	1249.1	1268.1	1426.5	1435.4	1455.7	1219.2	930.1	890.8
70°	1414.5	1409.0	1429.5	1507.6	1711.8	1712.1	1611.6	1200.2	804.1	631.6
72.5°	1396.8	1393.5	1501.9	1743.4	2071.5	2063.7	1759.1	1056.6	541.7	284.9
75°	1145.9	1167.7	1335.7	1739.1	2200.7	2199.6	1668.8	671.7	224.0	118.1
77.5°	614.5	648.9	867.2	1284.0	1718.0	1743.8	1173.2	235.0	96.2	75.6
80°	200.4	230.5	345.6	653.8	1116.3	1111.5	502.8	92.2	65.8	53.6
82.5°	85.1	88.6	154.4	308.7	572.9	564.0	160.1	53.0	46.3	36.6
85°	33.3	37.2	68.2	142.7	248.1	242.7	57.8	26.3	29.6	23.9
87.5°	10.9	13.3	24.4	48.9	77.2	74.4	14.2	9.0	12.8	10.9
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°
359.8	0°	359.8	359.8	359.8	359.8	359.8	359.8	359.8	359.8	359.8	359.8
360.8	2.5°	362.9	365.2	368.0	372.1	375.6	378.5	381.5	383.4	384.2	386.4
361.4	5°	365.5	370.6	377.5	384.2	390.7	394.7	398.2	399.9	401.5	402.7
363.0	7.5°	369.9	376.4	387.2	396.0	401.5	404.7	407.1	406.5	407.1	407.4
364.8	10°	373.7	382.9	395.7	404.0	408.3	408.4	407.8	405.8	404.7	404.9
367.4	12.5°	378.2	388.4	402.3	409.3	410.4	407.2	404.7	401.2	399.9	399.3
371.3	15°	384.3	396.0	409.4	412.0	409.1	405.0	400.8	395.1	392.2	389.9
378.0	17.5°	391.8	404.6	415.0	413.1	406.8	400.1	393.2	384.6	378.6	376.1
387.2	20°	402.1	413.7	419.2	410.9	401.4	391.2	379.5	369.0	363.4	361.0
398.9	22.5°	414.7	425.8	423.3	407.1	393.7	377.3	362.7	355.0	352.2	350.5
413.9	25°	429.7	439.2	426.2	401.5	381.0	358.9	347.7	345.2	343.9	342.6
432.3	27.5°	449.3	454.4	428.4	393.4	361.1	339.4	335.3	335.7	335.3	333.1
457.9	30°	475.1	474.1	430.4	380.1	338.3	321.7	322.0	323.9	324.2	322.7
493.5	32.5°	509.1	498.7	431.5	362.9	316.6	306.2	306.5	308.6	310.0	307.5
540.1	35°	550.3	527.5	429.9	341.3	299.8	291.5	289.3	289.9	290.3	288.0
596.5	37.5°	598.3	559.8	422.7	317.3	285.9	277.0	272.4	268.4	266.1	263.9
660.5	40°	651.0	594.9	409.6	294.0	270.5	261.7	254.7	247.3	239.4	236.5
728.2	42.5°	706.2	631.1	393.7	271.6	252.7	245.5	238.1	227.3	215.4	209.5
798.6	45°	763.4	668.2	378.0	249.6	234.4	231.3	222.7	209.7	196.9	189.3
869.1	47.5°	819.4	703.2	355.1	227.4	217.3	220.7	214.0	202.0	187.7	175.7
939.0	50°	873.0	736.1	317.6	204.9	203.5	217.5	211.1	193.8	177.5	162.2
1007.6	52.5°	926.1	762.6	269.6	184.5	196.0	216.6	207.3	188.3	168.3	152.2
1072.1	55°	971.2	776.4	223.3	167.0	185.2	209.2	202.7	181.7	155.3	138.2
1116.3	57.5°	996.9	765.3	184.8	149.8	170.3	196.9	195.0	167.7	139.8	126.7
1124.9	60°	985.8	720.3	153.3	134.7	156.2	183.6	181.6	153.8	128.0	115.6
1078.8	62.5°	924.7	634.6	128.3	121.6	143.3	170.0	168.1	143.2	119.0	107.0
956.3	65°	801.5	516.3	108.9	110.6	130.3	153.7	156.5	134.3	111.8	100.1
739.9	67.5°	611.3	374.0	93.7	101.2	117.6	137.6	145.7	127.9	105.8	94.7
428.1	70°	348.4	212.4	80.9	92.0	106.4	122.8	137.3	122.8	99.4	90.2
160.4	72.5°	132.1	97.5	69.9	82.8	95.6	110.2	128.2	114.7	92.0	85.1
82.9	75°	70.5	59.4	58.8	72.0	83.2	97.9	116.6	106.8	86.4	89.9
57.4	77.5°	48.0	42.0	49.2	61.6	69.6	84.4	104.4	94.9	74.9	74.6
39.7	80°	33.3	29.8	40.0	49.6	53.9	70.9	91.1	81.4	61.0	56.9
24.5	82.5°	20.0	19.4	29.9	37.1	38.1	54.7	75.5	68.3	49.9	43.5
14.6	85°	10.9	11.5	19.1	21.7	22.2	38.2	59.1	52.8	38.4	32.3
5.3	87.5°	3.1	3.9	7.0	8.6	10.7	19.9	35.2	31.4	19.3	13.4
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>
359.8
386.2
403.0
407.8
405.2
399.1
390.6
376.3
360.7
350.7
342.6
333.5
323.4
308.7
289.6
265.4
237.8
210.2
188.7
174.4
160.8
150.5
136.8
124.9
113.8
105.1
98.2
93.0
89.0
83.9
92.8
68.7
54.4
43.8
32.5
13.4
0.0

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