

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: P945184

Luminaire Tested: **GALN-SB1A-950-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945184
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-950-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 5000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3205 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

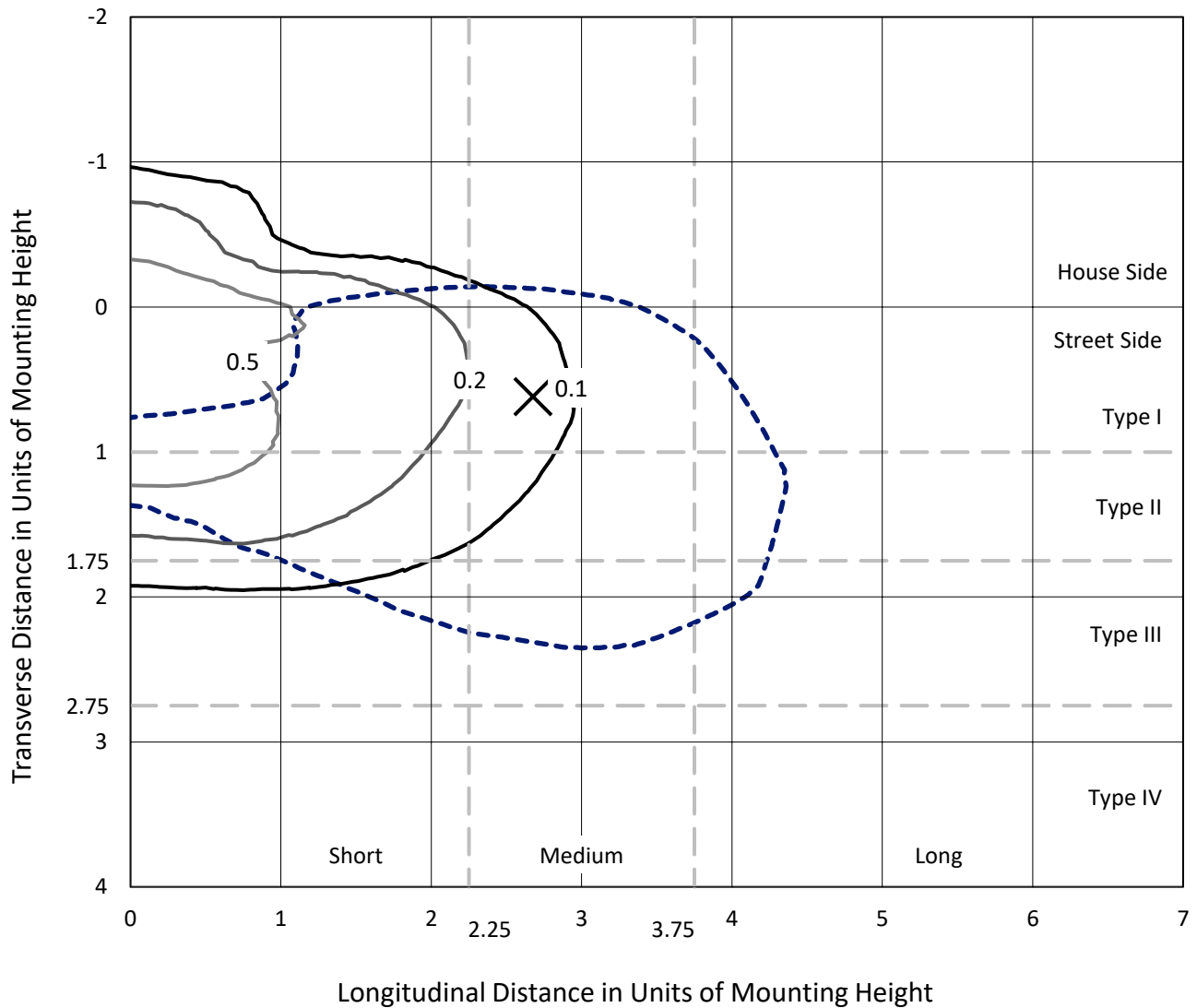
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

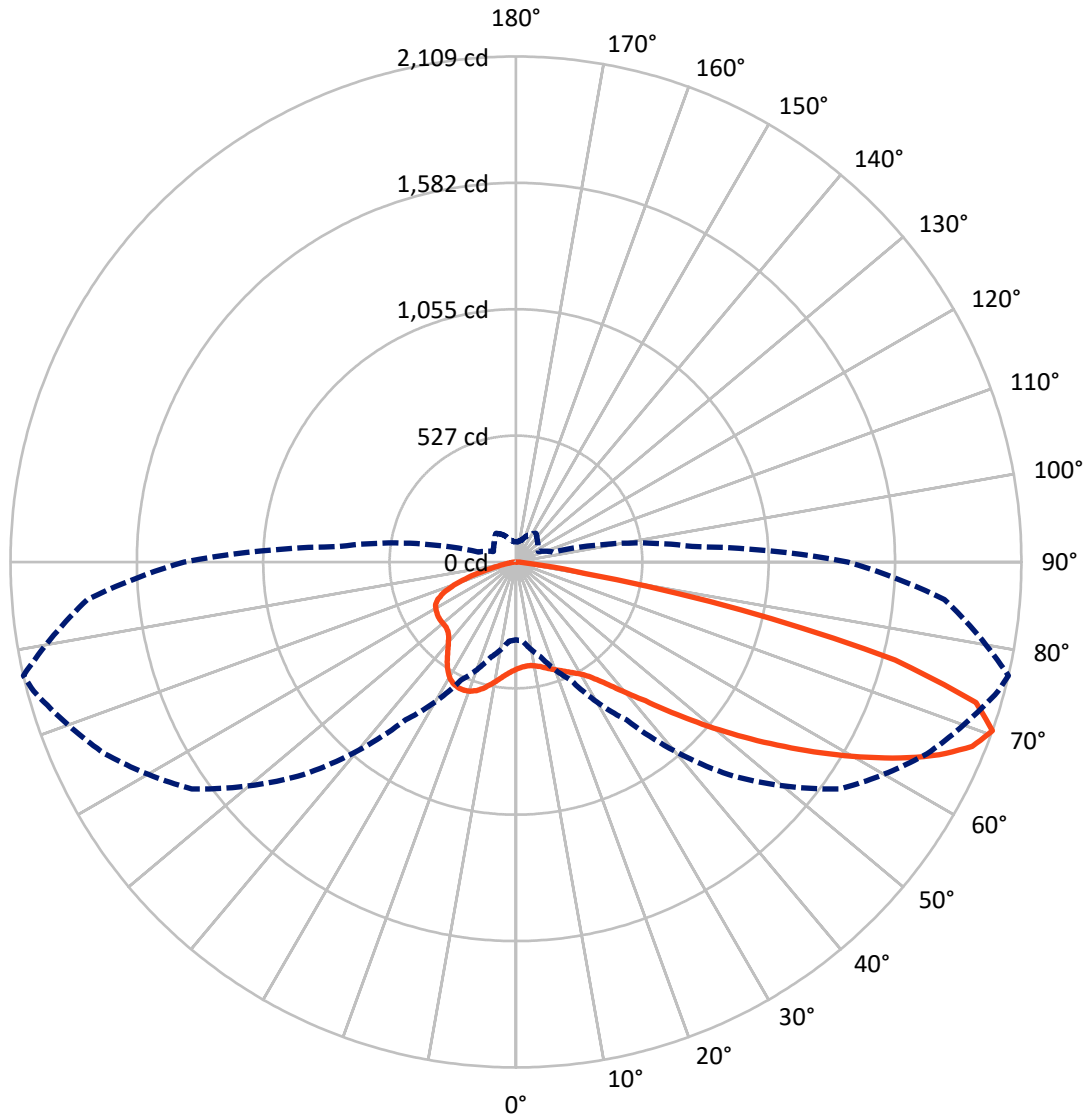
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	701.8	0.0	701.8
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	2503.2	0.0	2503.2
	% Fixture	78.1	0.0	78.1
Total	Lumens	3205.0	0.0	3205.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.6	1.3
10°-20°	123.1	3.8
20°-30°	210.5	6.6
30°-40°	338.5	10.6
40°-50°	528.4	16.5
50°-60°	705.9	22.0
60°-70°	752.3	23.5
70°-80°	463.1	14.5
80°-90°	40.6	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°	3205.0	100.0
0°-180°	3205.0	100.0

Coefficient of Utilization



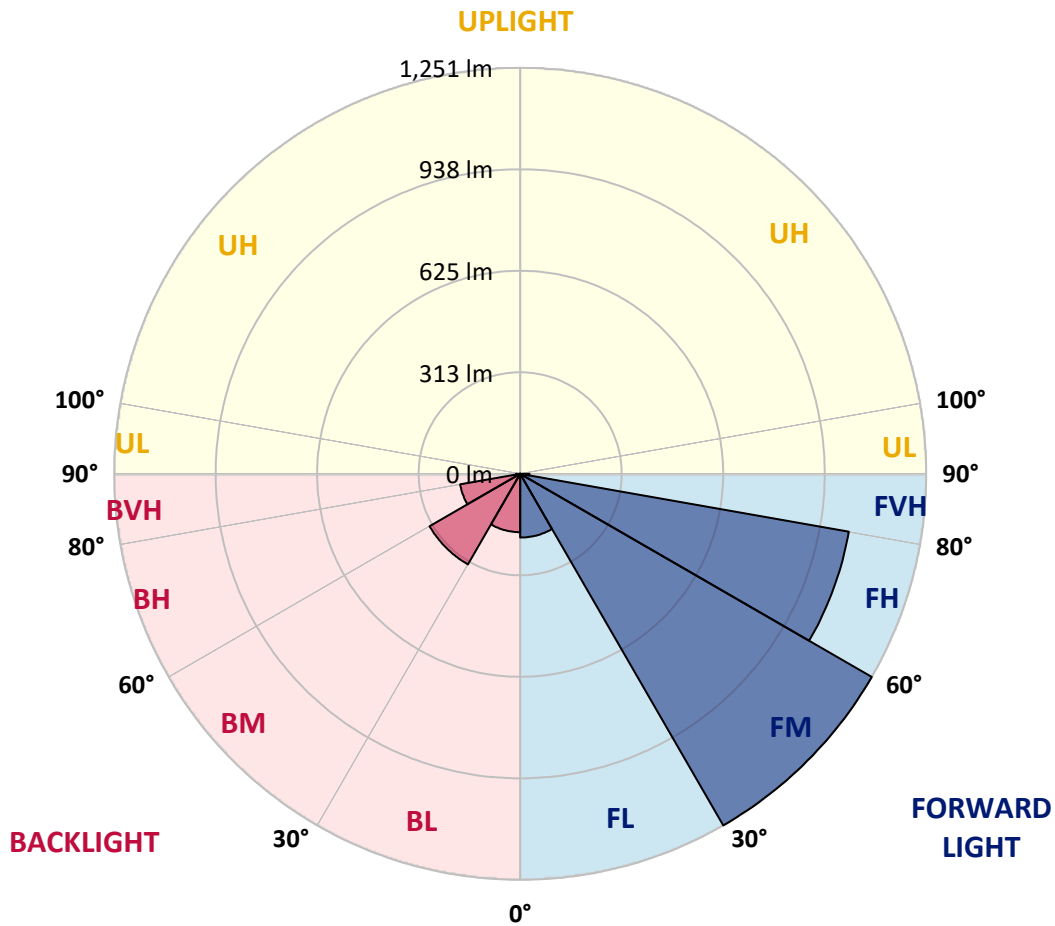
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	196.4	6.1			
FM (30°-60°)	1250.5	39.0			
FH (60°-80°)	1027.9	32.1			G1/1800
FVH (80°-90°)	28.4	0.9			G1/100
BL (0°-30°)	179.8	5.6	B1/500		
BM (30°-60°)	322.2	10.1	B1/1000		
BH (60°-80°)	187.6	5.9	B1/500		G1/500
BVH (80°-90°)	12.2	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	447.1	447.1	447.1	447.1	447.1	447.1	447.1	447.1	447.1	447.1
2.5°	412.2	412.0	414.1	414.8	418.7	421.5	426.8	432.4	439.6	440.4
5°	388.4	388.4	390.8	393.5	398.5	404.1	412.2	421.8	434.3	436.3
7.5°	368.2	369.5	371.6	376.7	382.6	390.7	403.0	416.8	433.2	436.3
10°	351.9	353.4	356.0	360.1	369.0	380.2	396.2	414.0	436.0	440.9
12.5°	346.8	348.3	349.8	352.9	361.1	374.2	393.5	415.3	442.7	447.6
15°	358.7	360.5	359.3	358.5	362.8	374.7	394.8	420.0	451.1	458.1
17.5°	385.9	386.6	383.9	376.2	375.6	382.0	401.0	426.6	461.6	469.3
20°	429.9	428.7	423.3	408.1	399.4	398.0	411.7	436.5	472.4	480.6
22.5°	489.6	488.3	477.5	453.4	434.0	421.2	427.1	449.3	484.6	493.7
25°	564.2	562.4	546.4	513.6	483.6	451.9	448.1	466.2	499.5	508.0
27.5°	651.2	649.7	632.4	589.1	545.8	493.9	474.2	486.0	515.1	524.8
30°	744.7	749.0	718.5	671.8	617.0	548.7	509.3	510.5	535.3	544.0
32.5°	854.7	862.1	825.3	766.2	691.4	608.3	553.7	544.6	564.7	571.9
35°	963.7	972.1	941.5	876.2	790.0	678.6	599.9	583.9	603.7	611.6
37.5°	1057.9	1069.1	1053.3	996.5	895.6	763.3	660.3	630.0	651.8	661.7
40°	1132.3	1149.3	1148.2	1112.7	1020.0	866.0	737.0	686.9	711.6	722.2
42.5°	1192.7	1207.4	1220.2	1218.4	1149.8	982.7	827.1	761.0	779.7	792.0
45°	1234.4	1250.1	1277.7	1307.4	1274.7	1107.6	930.4	848.8	865.9	884.4
47.5°	1271.6	1289.5	1325.3	1372.4	1380.8	1233.0	1043.5	951.0	966.6	985.8
50°	1274.9	1290.3	1345.8	1412.6	1456.1	1353.5	1164.9	1065.8	1080.4	1100.9
52.5°	1195.6	1219.9	1316.8	1411.5	1490.8	1454.3	1285.6	1185.1	1201.5	1226.2
55°	928.1	963.7	1231.6	1367.5	1478.4	1519.5	1400.3	1312.0	1333.0	1358.8
57.5°	799.4	815.0	977.6	1287.4	1422.3	1536.4	1497.2	1440.2	1474.0	1502.2
60°	718.5	731.4	827.6	1162.8	1348.4	1509.6	1572.0	1559.7	1618.1	1651.8
62.5°	631.8	644.1	731.6	970.9	1253.9	1465.1	1619.3	1670.0	1765.9	1802.6
65°	545.8	556.3	640.2	815.8	1133.7	1420.7	1643.7	1765.4	1902.6	1940.7
67.5°	449.9	458.6	537.9	688.3	987.7	1359.8	1655.9	1840.4	2021.6	2054.3
70°	324.7	331.4	413.3	544.3	804.3	1255.0	1651.0	1893.6	2083.3	2109.4
72.5°	153.5	159.5	255.7	353.4	568.1	1051.2	1551.3	1851.4	2020.6	2007.6
75°	81.9	87.2	146.9	193.9	300.1	720.6	1269.5	1594.8	1696.8	1633.7
77.5°	55.5	59.6	90.9	116.4	137.1	342.1	816.0	1104.2	1062.3	958.3
80°	44.0	48.3	74.5	78.8	66.3	123.6	337.2	511.1	367.2	293.7
82.5°	33.8	38.6	62.7	57.1	36.1	50.7	98.2	161.7	94.1	71.6
85°	20.7	25.8	49.2	36.4	20.4	23.1	33.3	45.0	28.7	24.0
87.5°	10.5	14.8	24.9	13.3	9.2	5.4	8.9	8.9	7.6	6.6
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°
447.1	0°	447.1	447.1	447.1	447.1	447.1	447.1	447.1	447.1	447.1	447.1
444.8	2.5°	448.8	452.1	457.6	462.9	467.0	470.9	474.9	477.0	477.7	480.3
447.3	5°	454.0	460.1	470.9	481.1	487.5	491.4	494.2	495.9	496.2	497.0
454.0	7.5°	463.7	473.4	488.5	498.7	503.4	503.1	502.0	497.8	496.2	494.7
463.9	10°	477.3	490.1	508.7	515.7	512.8	504.9	494.7	482.7	477.2	471.7
477.3	12.5°	494.2	510.5	528.7	528.4	513.8	493.6	469.9	451.6	439.9	431.5
493.9	15°	514.8	533.5	547.4	536.3	504.2	468.0	433.3	409.4	398.9	389.7
510.7	17.5°	535.9	556.0	562.4	533.8	480.3	430.1	390.8	371.9	361.6	356.7
528.7	20°	556.6	576.5	571.2	519.7	443.8	387.1	352.1	341.7	339.6	340.8
546.3	22.5°	578.4	596.2	573.0	492.4	397.4	343.1	323.9	324.2	328.9	332.4
564.7	25°	600.8	612.7	568.3	453.0	347.5	310.7	306.0	311.2	320.6	327.3
585.3	27.5°	622.3	627.5	557.9	404.3	304.7	287.6	288.4	299.2	313.3	322.7
610.4	30°	646.6	640.7	538.1	349.5	274.9	267.7	274.6	287.3	301.4	309.7
642.1	32.5°	674.0	652.0	506.5	298.7	253.9	251.8	263.1	271.3	277.6	280.0
684.1	35°	708.1	667.9	466.2	263.1	235.1	240.1	251.0	246.9	244.4	243.1
740.6	37.5°	752.4	689.4	418.9	240.0	219.8	231.8	236.2	223.4	213.7	209.0
809.1	40°	805.8	720.9	373.4	222.1	210.1	224.5	216.8	201.4	189.1	182.4
886.0	42.5°	865.0	753.9	335.2	208.6	204.7	218.6	202.6	184.2	164.3	162.2
977.8	45°	927.2	787.9	309.1	198.3	202.1	213.6	194.3	164.6	150.5	159.2
1069.9	47.5°	989.5	819.1	293.3	190.6	200.7	207.8	187.1	153.8	143.8	156.4
1168.5	50°	1058.7	847.0	286.3	185.0	199.3	205.5	176.3	151.0	136.7	145.1
1270.6	52.5°	1127.5	868.6	281.0	179.4	197.1	203.7	171.0	147.7	128.2	128.7
1373.4	55°	1196.1	882.8	275.3	172.0	192.4	199.8	170.5	144.1	121.8	119.5
1482.1	57.5°	1269.3	890.8	268.2	163.8	184.2	189.7	170.1	141.3	119.8	116.0
1593.2	60°	1343.8	902.6	259.0	153.8	173.2	177.8	168.9	140.3	118.7	112.3
1697.9	62.5°	1410.6	906.7	248.0	144.3	159.1	165.9	166.4	139.5	115.6	104.6
1784.9	65°	1454.5	889.0	228.8	133.4	143.8	153.8	161.7	136.7	110.0	99.0
1827.9	67.5°	1452.7	838.4	198.8	119.5	129.0	140.3	154.8	132.0	103.2	92.1
1795.4	70°	1385.0	738.6	160.7	103.2	112.8	125.9	145.9	124.9	95.2	84.5
1596.5	72.5°	1187.9	578.1	116.7	84.2	93.9	111.0	134.4	116.4	87.0	77.8
1179.9	75°	848.6	365.9	79.1	64.7	73.0	94.1	120.2	106.4	79.4	78.1
590.9	77.5°	433.5	174.8	52.4	47.3	50.9	74.2	100.9	95.0	80.6	64.5
168.1	80°	141.0	64.5	33.0	32.2	33.8	49.4	78.1	78.0	61.1	43.8
40.7	82.5°	45.0	27.7	21.5	20.7	19.9	31.0	54.5	61.7	41.2	27.7
14.6	85°	17.9	16.6	12.6	11.7	8.4	14.6	28.6	41.0	30.7	20.0
3.8	87.5°	6.6	6.6	3.4	2.5	1.8	4.9	7.7	12.3	17.6	10.3
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>
447.1
481.8
498.3
495.1
470.1
429.6
388.7
358.2
340.3
333.2
329.1
325.0
311.7
281.3
244.4
210.1
182.9
164.3
163.8
162.3
151.3
132.1
121.1
116.5
112.8
104.6
99.0
92.6
85.5
77.3
73.7
57.5
38.7
27.6
20.5
10.2
0.0

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