

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: P945510

Luminaire Tested: **GALN-SB1B-940-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945510
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-SB1B-940-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3989 lumens
Efficiency: N/A
Efficacy: 100.2 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

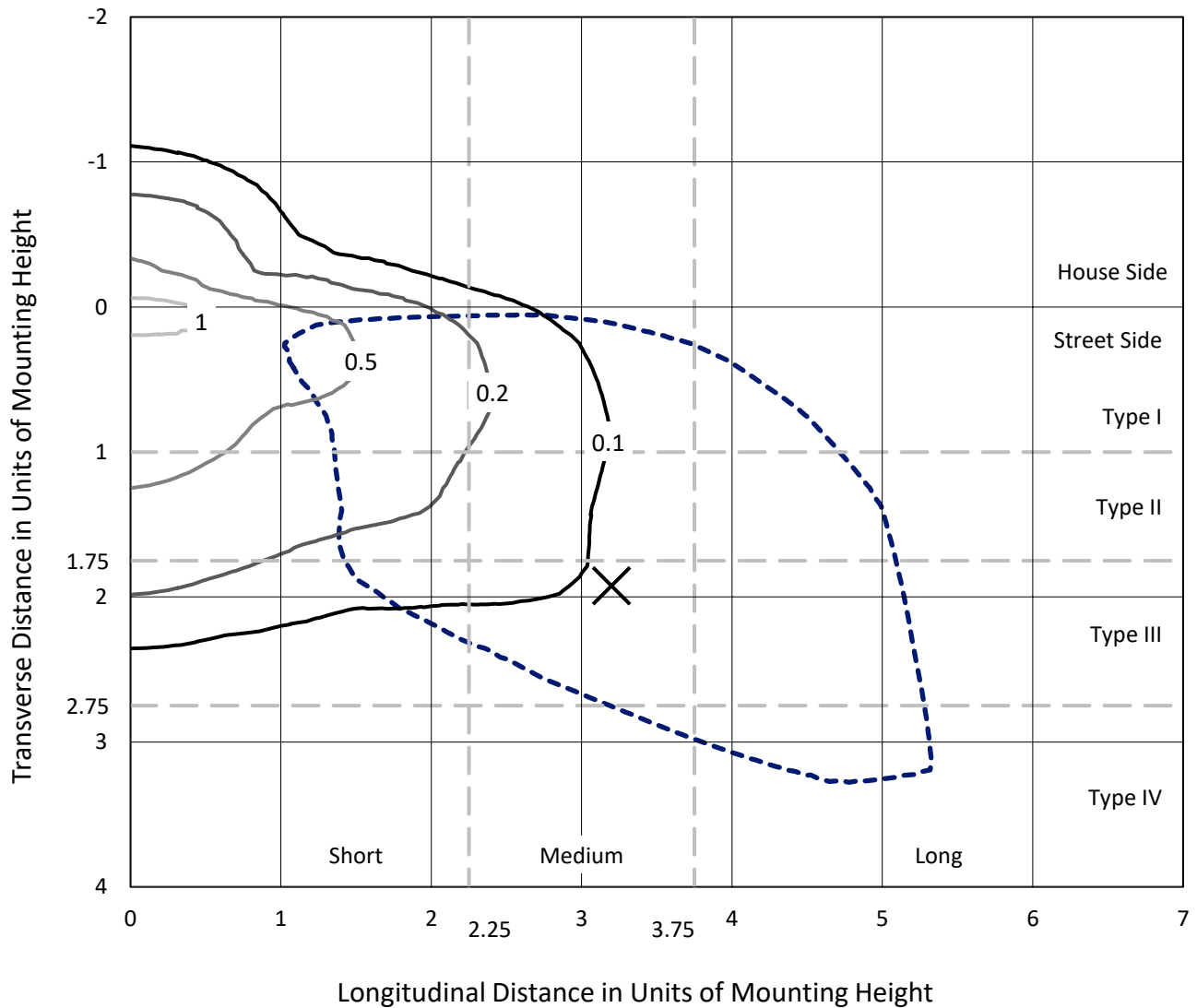
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

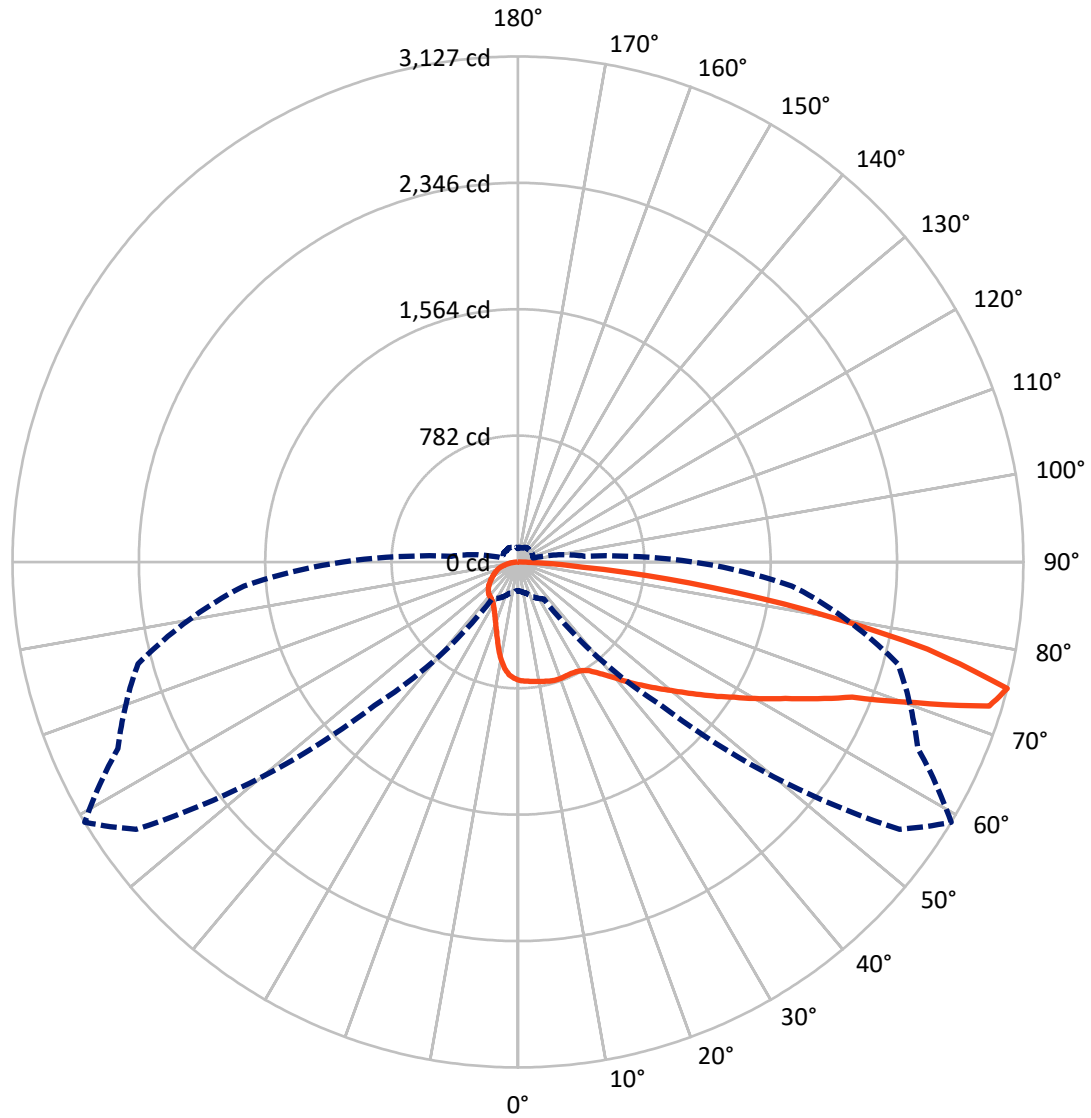
✕ Max cd
 - - - 1/2 Max cd



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	748.2	0.0	748.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	3240.8	0.0	3240.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	3989.0	0.0	3989.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.7	1.6
10°-20°	167.8	4.2
20°-30°	254.9	6.4
30°-40°	378.9	9.5
40°-50°	563.5	14.1
50°-60°	764.8	19.2
60°-70°	933.7	23.4
70°-80°	732.8	18.4
80°-90°	126.9	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°	3989.0	100.0
0°-180°	3989.0	100.0

Coefficient of Utilization



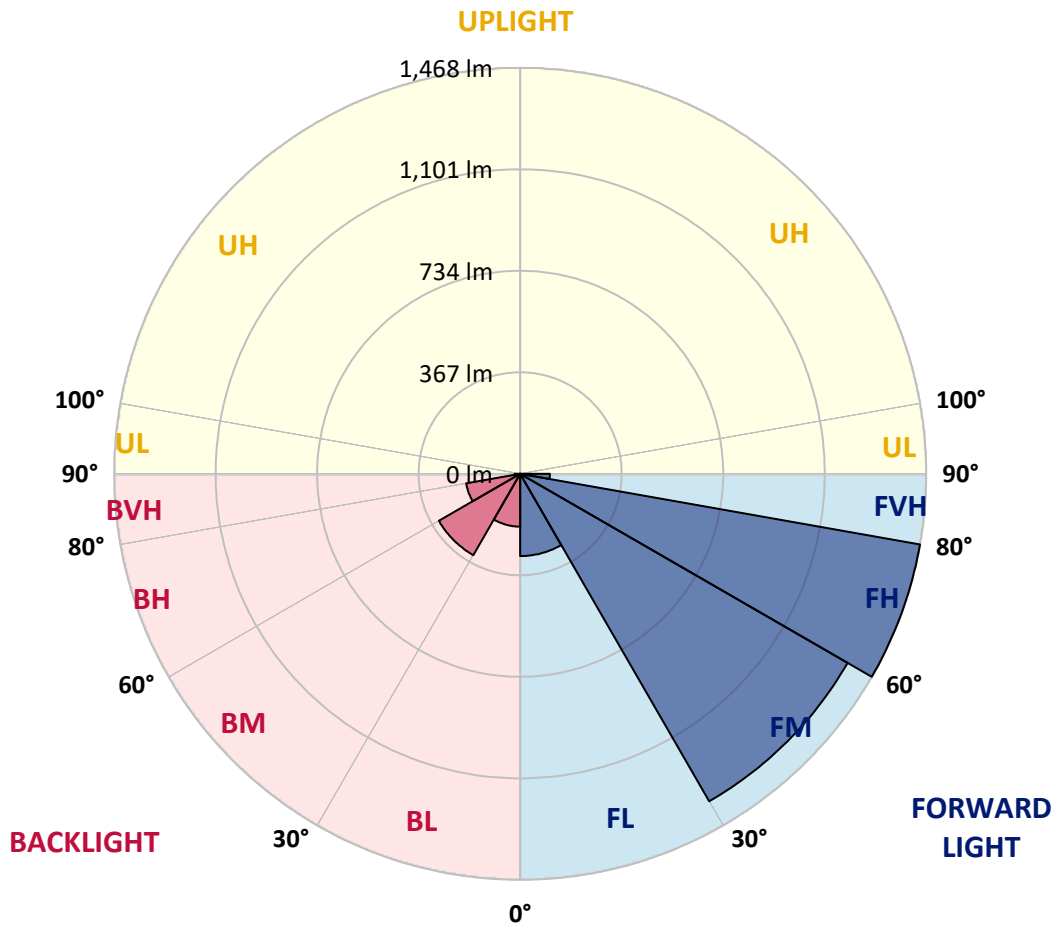
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	297.4	7.5			
FM	(30°-60°)	1367.6	34.3			
FH	(60°-80°)	1468.3	36.8			G1/1800
FVH	(80°-90°)	107.5	2.7			G2/225
BL	(0°-30°)	190.9	4.8	B1/500		
BM	(30°-60°)	339.6	8.5	B1/1000		
BH	(60°-80°)	198.2	5.0	B1/500		G1/500
BVH	(80°-90°)	19.4	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°	732.2	732.2	732.2	732.2	732.2	732.2	732.2	732.2	732.2	732.2
2.5°	738.4	735.8	738.4	737.3	736.9	736.0	736.2	737.8	736.9	738.0
5°	733.5	732.0	734.5	733.9	736.7	737.1	739.9	741.6	742.7	742.9
7.5°	725.3	723.8	727.5	730.5	736.5	738.2	744.0	746.8	748.3	750.8
10°	695.5	694.8	703.8	715.2	729.4	738.2	747.0	751.7	754.1	760.9
12.5°	642.7	643.5	655.3	677.2	705.6	733.9	750.4	757.3	760.9	769.5
15°	592.3	592.0	604.9	628.3	668.0	715.0	752.1	763.9	770.2	782.8
17.5°	563.1	562.2	571.2	589.0	626.0	686.0	747.8	767.6	780.9	796.8
20°	557.7	556.0	560.7	569.5	595.7	654.3	736.7	767.6	789.5	810.1
22.5°	577.2	574.5	572.5	571.4	583.0	628.1	724.0	765.0	802.1	829.2
25°	616.5	612.2	602.3	592.7	589.3	616.3	712.9	764.4	821.0	854.9
27.5°	680.0	674.7	654.7	631.5	610.7	622.3	707.9	768.2	841.8	882.2
30°	758.8	753.0	727.9	692.3	654.9	644.6	714.1	779.6	868.4	918.4
32.5°	829.4	822.9	801.5	765.2	714.8	683.2	733.9	801.3	910.3	968.9
35°	892.0	884.5	865.2	831.7	788.2	737.5	769.5	839.7	969.7	1050.8
37.5°	953.4	944.6	923.6	888.2	857.7	809.9	818.7	889.0	1048.7	1150.4
40°	1022.1	1009.4	983.9	948.9	919.3	894.6	883.2	949.5	1128.9	1261.6
42.5°	1088.6	1076.6	1046.1	1016.3	979.2	972.1	958.1	1020.4	1216.7	1383.7
45°	1160.3	1145.9	1109.0	1071.2	1047.8	1023.6	1030.7	1091.2	1302.8	1508.1
47.5°	1227.4	1211.3	1167.8	1125.7	1112.9	1066.9	1097.2	1169.1	1392.2	1634.3
50°	1263.7	1247.8	1211.6	1173.6	1163.5	1120.4	1169.3	1254.7	1486.0	1760.0
52.5°	1294.0	1276.8	1229.4	1208.3	1205.3	1178.5	1258.1	1352.5	1579.8	1871.2
55°	1326.1	1307.1	1246.5	1227.7	1241.4	1243.7	1363.5	1463.5	1678.9	1979.6
57.5°	1363.3	1339.0	1263.1	1244.0	1276.6	1320.1	1484.5	1578.5	1776.4	2080.0
60°	1398.3	1373.8	1294.8	1269.9	1314.6	1408.8	1623.4	1717.8	1886.7	2169.5
62.5°	1405.1	1384.9	1320.1	1319.9	1366.1	1512.2	1787.7	1858.3	1983.0	2257.9
65°	1286.2	1273.6	1235.2	1318.0	1439.9	1661.1	1970.8	2038.2	2105.5	2335.1
67.5°	978.9	980.7	977.9	1137.7	1380.2	1875.1	2235.8	2230.6	2256.8	2421.8
70°	447.6	457.7	523.4	785.4	1105.8	1899.7	2674.0	2607.2	2446.7	2534.1
72.5°	241.8	249.6	276.4	380.5	664.8	1689.0	3001.4	3048.9	2699.3	2609.6
75°	177.5	181.8	200.4	241.8	279.2	1255.3	2884.1	3127.4	2730.8	2433.4
77.5°	132.8	134.8	150.0	191.6	142.9	661.8	2304.5	2590.1	2337.7	1999.3
80°	96.3	98.5	109.9	143.8	100.2	242.1	1582.4	1818.0	1601.0	1274.4
82.5°	66.5	67.4	72.3	97.9	70.0	94.0	897.8	1066.1	893.8	447.2
85°	40.1	41.2	43.3	57.1	39.7	44.6	387.5	400.8	267.2	106.9
87.5°	16.5	17.6	19.3	24.0	15.7	12.4	63.9	80.3	50.0	31.3
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°
732.2	0°	732.2	732.2	732.2	732.2	732.2	732.2	732.2	732.2	732.2	732.2
734.3	2.5°	733.2	731.7	727.7	722.1	716.9	710.5	707.7	705.3	703.2	699.1
740.1	5°	737.8	733.7	722.7	708.6	692.5	674.9	657.7	645.9	635.8	628.3
746.8	7.5°	744.6	736.9	716.9	688.0	651.1	613.3	579.2	554.9	536.7	530.0
756.2	10°	751.7	742.5	707.7	656.6	592.9	534.8	489.5	464.6	450.0	445.3
767.4	12.5°	760.1	746.5	693.3	613.1	527.9	464.2	424.7	410.1	402.6	400.0
781.1	15°	772.3	750.0	671.7	558.6	465.9	412.7	387.1	377.0	373.2	373.0
795.3	17.5°	781.5	750.6	638.0	500.2	418.2	381.5	360.5	356.6	359.2	363.1
809.2	20°	791.8	744.8	593.8	447.0	384.8	354.3	345.5	348.1	354.3	359.9
827.7	22.5°	799.1	734.3	540.3	405.6	355.8	338.6	338.2	343.6	347.0	349.8
849.3	25°	805.6	716.5	483.7	370.8	332.0	329.2	333.9	332.2	329.8	332.2
871.0	27.5°	810.3	688.4	433.0	340.3	315.2	322.7	319.9	316.1	315.9	317.2
896.5	30°	808.8	650.8	391.4	311.4	303.4	310.7	304.1	303.4	302.8	303.4
935.0	32.5°	808.8	608.1	359.4	291.4	295.9	293.1	292.5	291.0	288.4	288.2
987.1	35°	813.3	565.4	332.0	280.7	289.7	283.0	283.5	279.8	274.5	271.9
1056.2	37.5°	822.5	531.1	304.7	275.5	278.7	278.5	276.8	270.6	261.2	253.0
1142.5	40°	844.8	521.0	286.0	273.2	273.6	276.2	271.7	259.7	238.2	224.9
1230.0	42.5°	879.8	538.0	282.0	267.4	270.2	272.7	263.9	236.0	220.8	212.9
1321.9	45°	924.2	567.6	290.8	259.0	262.0	266.5	240.3	227.0	220.2	220.4
1412.8	47.5°	980.4	598.7	307.1	251.7	250.2	252.8	224.7	216.5	207.1	209.4
1500.2	50°	1045.5	630.2	322.5	241.8	237.1	228.8	214.6	206.9	194.8	189.3
1584.5	52.5°	1115.9	660.7	328.7	229.8	223.0	213.3	207.7	198.3	183.7	174.5
1664.1	55°	1182.6	688.4	321.9	215.4	208.8	201.3	200.4	194.6	179.0	166.1
1734.9	57.5°	1245.7	711.6	304.7	200.9	194.4	189.9	195.7	192.9	173.2	156.6
1801.9	60°	1299.1	727.5	279.8	186.0	181.5	179.2	188.0	187.1	165.0	146.6
1862.0	62.5°	1341.6	733.7	252.4	171.9	170.8	166.5	177.2	177.2	154.7	136.7
1914.8	65°	1374.9	727.7	224.5	157.9	160.1	153.6	164.2	162.9	143.8	127.9
1975.5	67.5°	1404.3	707.9	193.6	144.2	149.1	141.0	150.4	147.4	131.8	119.1
2028.1	70°	1417.3	662.0	158.4	130.5	136.5	128.5	136.7	131.1	118.2	109.7
1970.3	72.5°	1312.2	550.2	124.7	116.1	121.2	114.8	121.9	115.4	103.6	99.8
1701.5	75°	1085.6	412.9	95.9	100.4	104.3	99.4	104.1	99.4	88.6	91.4
1256.8	77.5°	788.4	278.7	73.4	83.9	85.6	83.0	87.1	81.8	72.1	71.5
626.4	80°	392.1	163.3	57.5	66.3	65.7	63.9	68.7	66.1	57.9	61.4
169.1	82.5°	113.5	70.0	41.8	46.6	45.3	45.7	49.1	50.4	75.5	74.9
52.6	85°	35.6	27.5	25.1	26.0	24.7	25.3	29.0	57.5	53.2	31.1
16.3	87.5°	9.2	9.4	6.2	6.7	6.9	8.2	9.2	35.0	16.7	10.9
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

<u>180°</u>
732.2
697.2
622.1
518.4
438.0
400.6
373.8
364.6
361.8
351.3
333.7
319.3
305.8
291.0
274.5
255.8
226.6
212.9
221.5
215.4
190.8
174.2
166.1
155.8
145.9
136.0
127.0
118.2
107.9
96.6
83.5
68.2
60.7
76.6
33.7
11.6
0.0

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