

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: P944985

Luminaire Tested: **GALN-SB1A-827-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944985
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-SB1A-827-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3814 lumens
Efficiency: N/A
Efficacy: 123.4 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

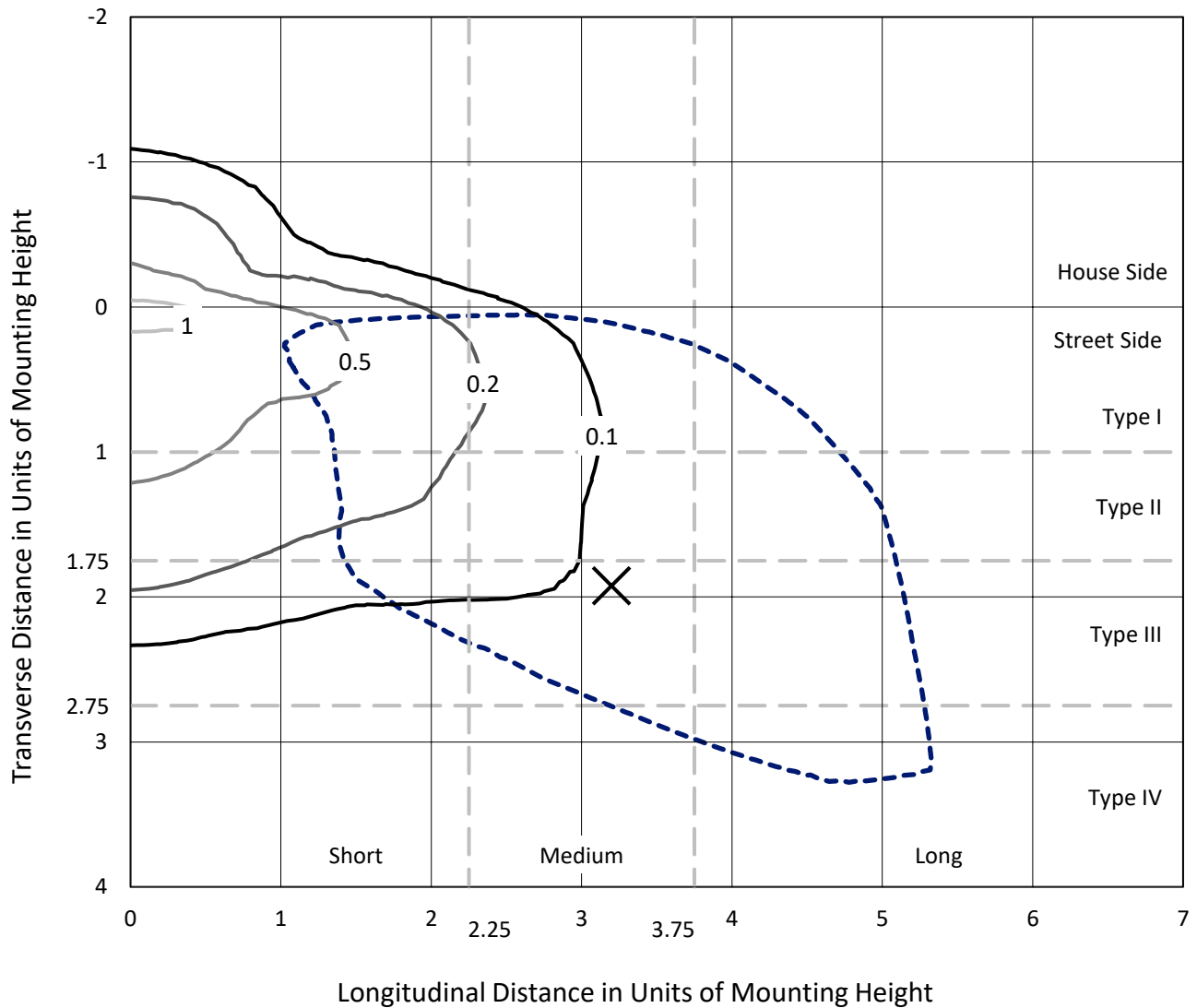
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

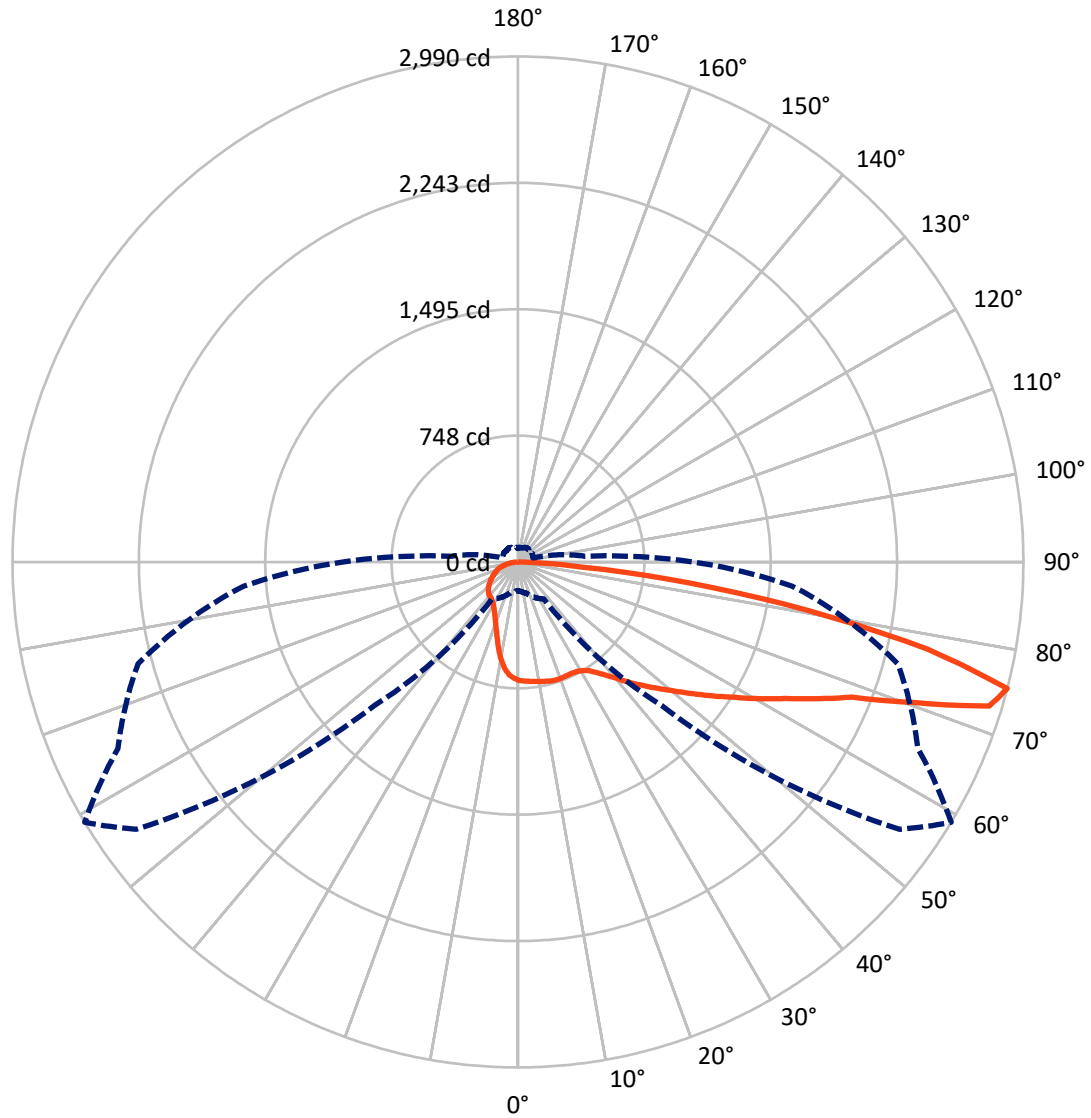
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 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	715.3	0.0	715.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	3098.7	0.0	3098.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	3814.0	0.0	3814.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.8	1.6
10°-20°	160.4	4.2
20°-30°	243.7	6.4
30°-40°	362.3	9.5
40°-50°	538.7	14.1
50°-60°	731.3	19.2
60°-70°	892.8	23.4
70°-80°	700.6	18.4
80°-90°	121.4	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°	3814.0	100.0
0°-180°	3814.0	100.0

Coefficient of Utilization



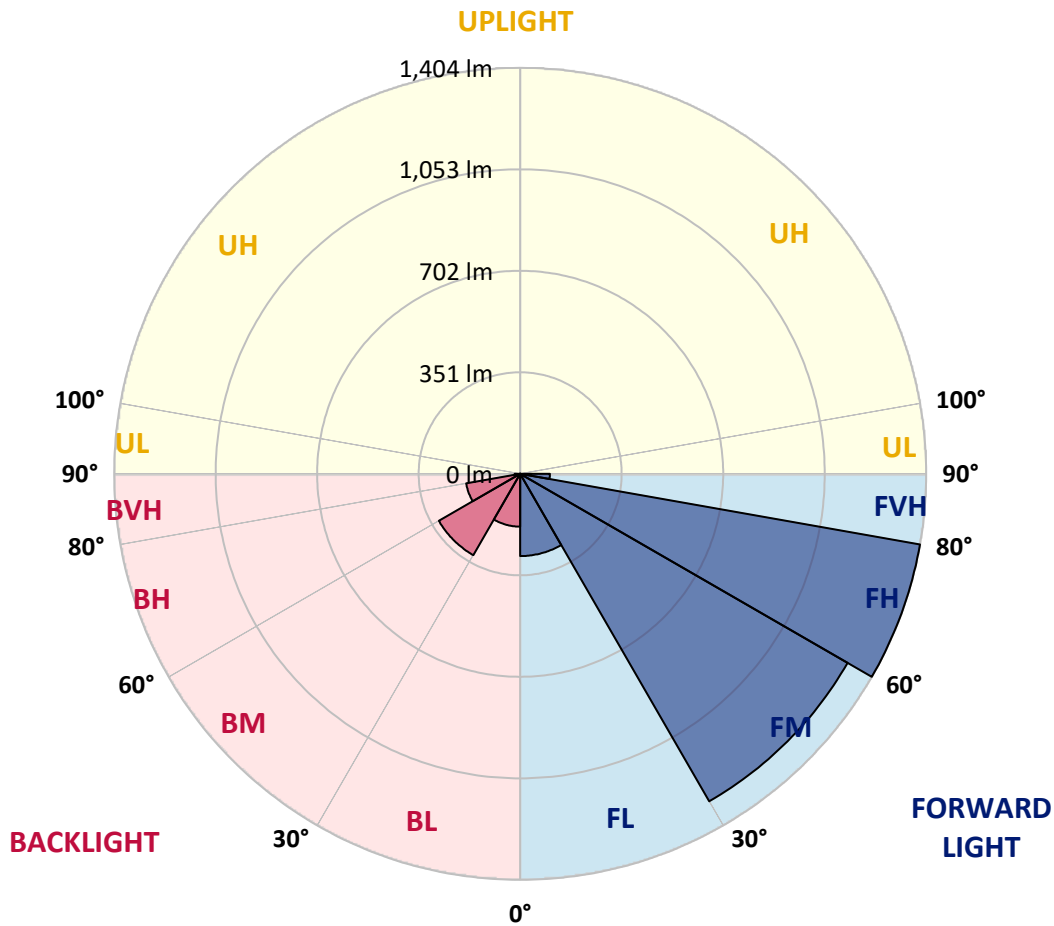
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	284.4	7.5			
FM (30°-60°)	1307.6	34.3			
FH (60°-80°)	1403.9	36.8			G1/1800
FVH (80°-90°)	102.8	2.7			G2/225
BL (0°-30°)	182.5	4.8	B1/500		
BM (30°-60°)	324.7	8.5	B1/1000		
BH (60°-80°)	189.5	5.0	B1/500		G1/500
BVH (80°-90°)	18.6	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°	700.1	700.1	700.1	700.1	700.1	700.1	700.1	700.1	700.1	700.1
2.5°	706.0	703.5	706.0	705.0	704.6	703.7	703.9	705.4	704.6	705.6
5°	701.3	699.8	702.3	701.7	704.4	704.8	707.4	709.1	710.1	710.3
7.5°	693.5	692.0	695.5	698.4	704.2	705.8	711.3	714.0	715.4	717.9
10°	665.0	664.4	673.0	683.8	697.4	705.8	714.2	718.7	721.0	727.5
12.5°	614.5	615.3	626.6	647.5	674.6	701.7	717.5	724.1	727.5	735.8
15°	566.3	566.1	578.4	600.7	638.7	683.6	719.1	730.4	736.4	748.5
17.5°	538.4	537.6	546.2	563.2	598.5	655.9	715.0	733.9	746.6	761.8
20°	533.2	531.6	536.1	544.5	569.6	625.6	704.4	733.9	754.8	774.5
22.5°	551.9	549.2	547.4	546.4	557.5	600.5	692.3	731.4	766.9	792.8
25°	589.5	585.4	575.9	566.7	563.4	589.3	681.6	730.8	785.0	817.4
27.5°	650.2	645.1	626.0	603.8	583.9	595.0	676.9	734.5	804.9	843.5
30°	725.5	720.0	695.9	661.9	626.2	616.3	682.8	745.4	830.3	878.1
32.5°	793.0	786.8	766.3	731.6	683.4	653.3	701.7	766.1	870.3	926.4
35°	852.9	845.7	827.3	795.3	753.6	705.2	735.8	802.8	927.2	1004.7
37.5°	911.6	903.2	883.1	849.2	820.1	774.3	782.7	850.0	1002.7	1099.9
40°	977.2	965.1	940.7	907.3	879.0	855.4	844.5	907.9	1079.4	1206.2
42.5°	1040.8	1029.4	1000.2	971.7	936.2	929.4	916.1	975.6	1163.3	1323.0
45°	1109.4	1095.6	1060.3	1024.2	1001.9	978.7	985.4	1043.3	1245.6	1442.0
47.5°	1173.6	1158.2	1116.6	1076.3	1064.0	1020.1	1049.1	1117.8	1331.2	1562.6
50°	1208.3	1193.1	1158.4	1122.1	1112.4	1071.2	1118.0	1199.6	1420.8	1682.8
52.5°	1237.2	1220.8	1175.4	1155.3	1152.5	1126.8	1202.9	1293.2	1510.5	1789.1
55°	1268.0	1249.7	1191.9	1173.8	1186.9	1189.2	1303.7	1399.3	1605.3	1892.7
57.5°	1303.5	1280.3	1207.6	1189.4	1220.6	1262.2	1419.4	1509.3	1698.4	1988.7
60°	1336.9	1313.5	1238.0	1214.2	1256.9	1347.0	1552.1	1642.4	1803.9	2074.3
62.5°	1343.5	1324.2	1262.2	1262.0	1306.1	1445.9	1709.3	1776.8	1896.0	2158.8
65°	1229.8	1217.7	1181.0	1260.2	1376.7	1588.2	1884.3	1948.7	2013.2	2232.7
67.5°	936.0	937.6	935.0	1087.8	1319.7	1792.8	2137.7	2132.8	2157.8	2315.6
70°	428.0	437.6	500.4	750.9	1057.3	1816.4	2556.7	2492.9	2339.4	2422.9
72.5°	231.2	238.6	264.3	363.8	635.6	1614.9	2869.8	2915.1	2580.9	2495.1
75°	169.7	173.8	191.6	231.2	266.9	1200.3	2757.5	2990.2	2611.0	2326.7
77.5°	127.0	128.8	143.4	183.2	136.6	632.8	2203.4	2476.4	2235.2	1911.6
80°	92.1	94.2	105.0	137.5	95.8	231.4	1512.9	1738.2	1530.8	1218.5
82.5°	63.6	64.4	69.1	93.6	66.9	89.9	858.4	1019.3	854.5	427.6
85°	38.4	39.4	41.4	54.6	38.0	42.7	370.5	383.3	255.4	102.2
87.5°	15.8	16.8	18.5	23.0	15.0	11.9	61.1	76.7	47.8	30.0
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°
700.1	0°	700.1	700.1	700.1	700.1	700.1	700.1	700.1	700.1	700.1	700.1
702.1	2.5°	701.1	699.6	695.7	690.4	685.5	679.3	676.7	674.4	672.4	668.5
707.6	5°	705.4	701.5	691.0	677.5	662.1	645.3	628.9	617.6	607.9	600.7
714.0	7.5°	712.0	704.6	685.5	657.8	622.5	586.4	553.8	530.6	513.1	506.8
723.0	10°	718.7	709.9	676.7	627.8	566.9	511.3	468.0	444.2	430.2	425.7
733.7	12.5°	726.7	713.8	662.9	586.2	504.7	443.8	406.0	392.1	384.9	382.4
746.8	15°	738.4	717.1	642.2	534.1	445.4	394.5	370.1	360.5	356.8	356.6
760.4	17.5°	747.2	717.7	610.0	478.3	399.9	364.8	344.7	341.0	343.5	347.2
773.7	20°	757.1	712.2	567.7	427.4	367.9	338.7	330.3	332.8	338.7	344.1
791.4	22.5°	764.1	702.1	516.6	387.8	340.2	323.8	323.4	328.5	331.8	334.4
812.1	25°	770.2	685.1	462.5	354.5	317.4	314.7	319.2	317.6	315.4	317.6
832.8	27.5°	774.7	658.2	414.0	325.4	301.4	308.6	305.9	302.2	302.0	303.2
857.2	30°	773.3	622.3	374.2	297.7	290.1	297.1	290.7	290.1	289.5	290.1
893.9	32.5°	773.3	581.5	343.7	278.6	282.9	280.3	279.7	278.2	275.8	275.5
943.8	35°	777.6	540.6	317.4	268.4	277.0	270.6	271.0	267.5	262.4	260.0
1009.9	37.5°	786.4	507.8	291.3	263.4	266.5	266.3	264.7	258.7	249.7	241.9
1092.3	40°	807.8	498.2	273.5	261.2	261.6	264.1	259.7	248.3	227.7	215.0
1176.1	42.5°	841.2	514.4	269.6	255.6	258.3	260.8	252.4	225.7	211.1	203.5
1263.9	45°	883.7	542.7	278.0	247.6	250.5	254.8	229.8	217.1	210.5	210.7
1350.9	47.5°	937.4	572.4	293.6	240.7	239.2	241.7	214.8	207.0	198.0	200.2
1434.4	50°	999.6	602.6	308.4	231.2	226.7	218.7	205.2	197.8	186.3	181.0
1515.0	52.5°	1066.9	631.7	314.3	219.7	213.2	203.9	198.6	189.6	175.6	166.8
1591.1	55°	1130.7	658.2	307.8	206.0	199.6	192.5	191.6	186.1	171.1	158.8
1658.8	57.5°	1191.0	680.4	291.3	192.0	185.9	181.6	187.1	184.5	165.6	149.8
1722.8	60°	1242.1	695.5	267.5	177.9	173.6	171.3	179.7	178.9	157.8	140.1
1780.3	62.5°	1282.7	701.5	241.3	164.3	163.3	159.2	169.5	169.5	147.9	130.7
1830.8	65°	1314.5	695.7	214.6	151.0	153.1	146.9	157.0	155.7	137.5	122.3
1888.8	67.5°	1342.7	676.9	185.1	137.9	142.6	134.8	143.8	141.0	126.0	113.9
1939.1	70°	1355.2	633.0	151.4	124.7	130.5	122.9	130.7	125.4	113.1	104.8
1883.9	72.5°	1254.6	526.1	119.2	111.0	115.9	109.8	116.5	110.4	99.1	95.4
1626.8	75°	1038.0	394.8	91.7	96.0	99.7	95.0	99.5	95.0	84.7	87.4
1201.7	77.5°	753.8	266.5	70.2	80.2	81.9	79.4	83.3	78.2	68.9	68.3
598.9	80°	374.9	156.1	55.0	63.4	62.8	61.1	65.7	63.2	55.4	58.7
161.7	82.5°	108.5	66.9	40.0	44.5	43.3	43.7	47.0	48.2	72.2	71.6
50.3	85°	34.1	26.3	24.0	24.8	23.6	24.2	27.7	55.0	50.9	29.8
15.6	87.5°	8.8	9.0	6.0	6.4	6.6	7.8	8.8	33.4	16.0	10.5
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>
700.1
666.6
594.8
495.7
418.8
383.1
357.4
348.6
345.9
335.9
319.0
305.3
292.4
278.2
262.4
244.6
216.7
203.5
211.7
206.0
182.4
166.6
158.8
149.0
139.5
130.1
121.5
113.1
103.2
92.3
79.8
65.2
58.1
73.2
32.2
11.1
0.0

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