

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: P938796

Luminaire Tested: **GALN-SB1A-830-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938796
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3162 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

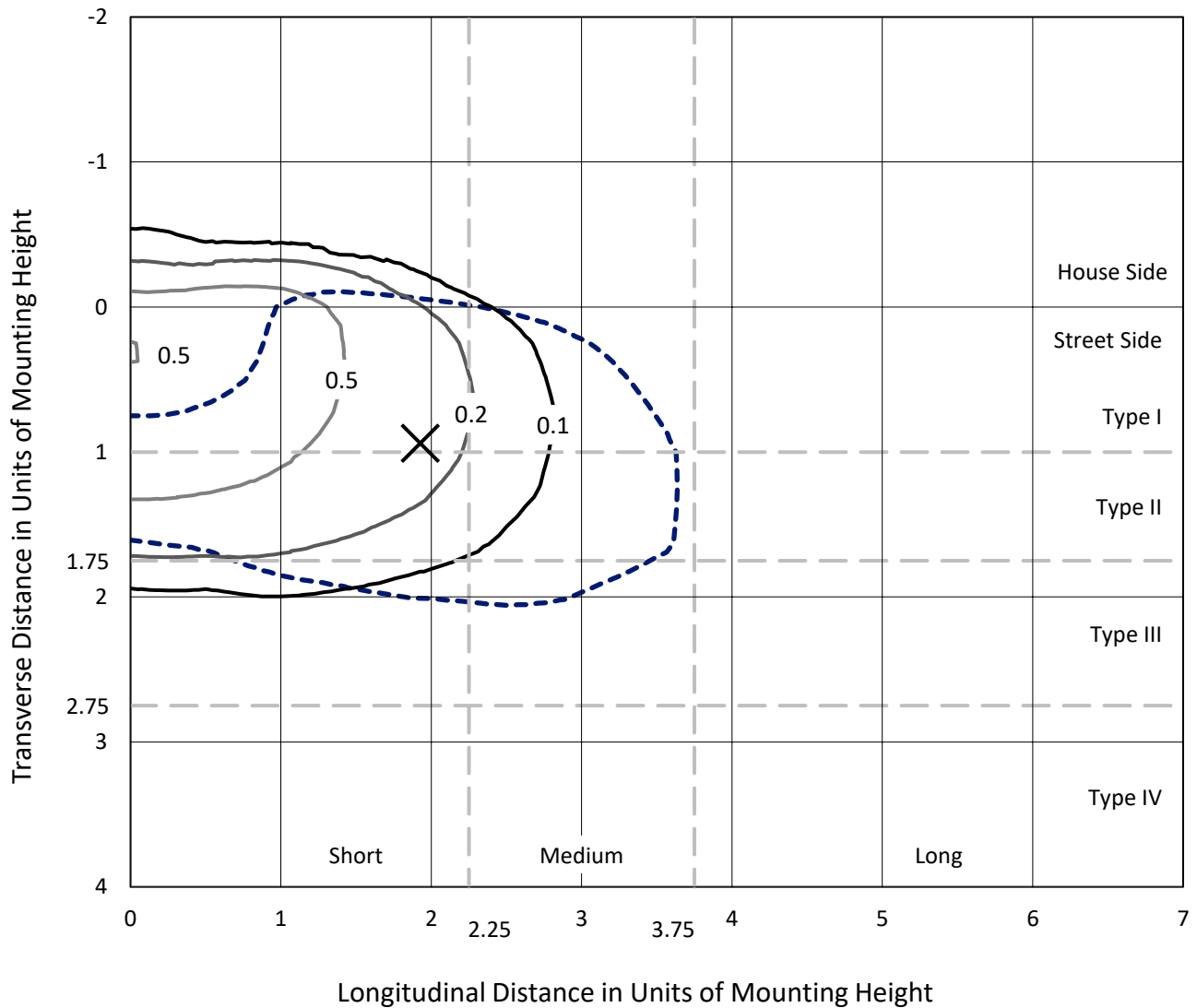
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

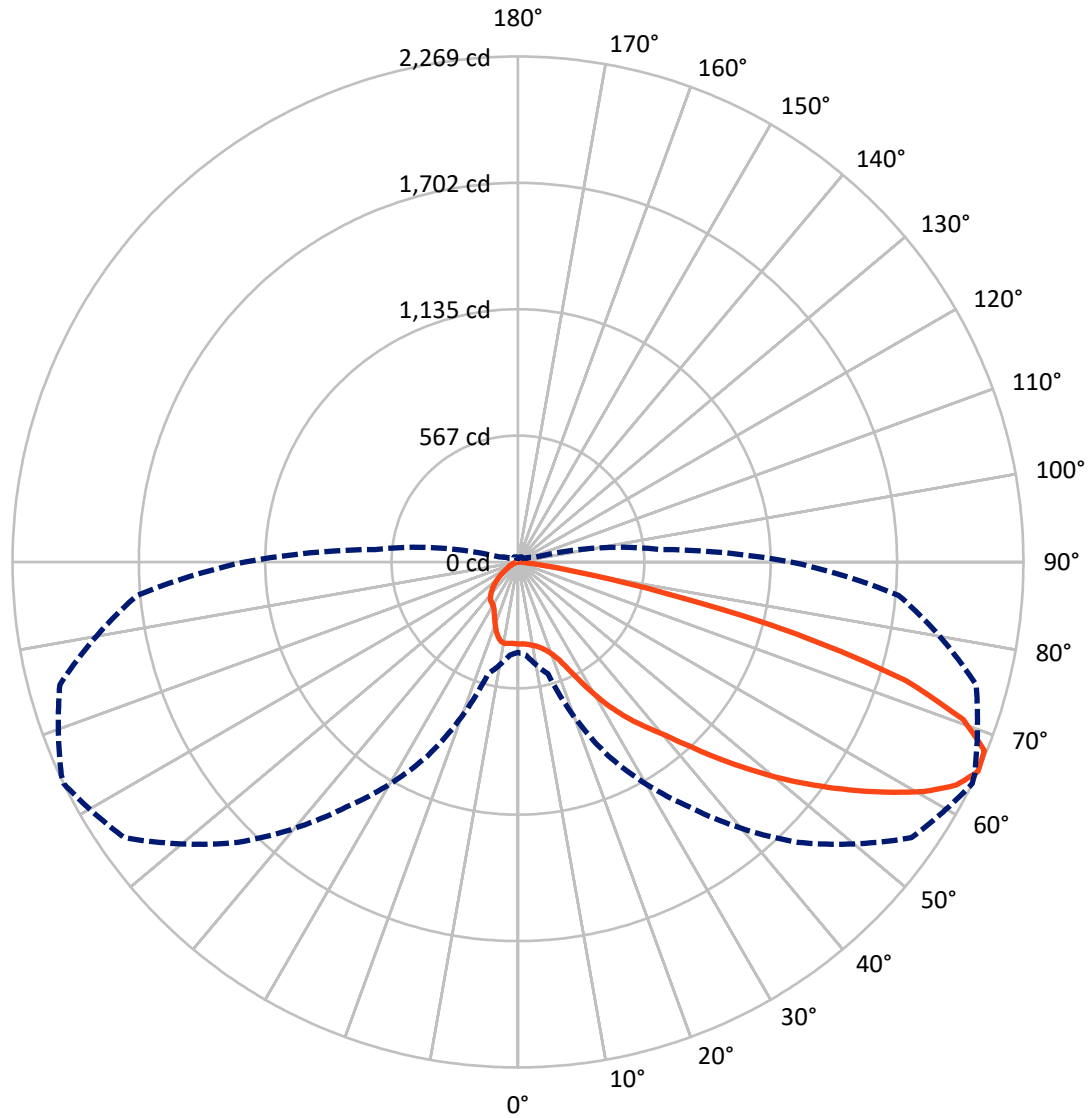
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	422.9	0.0	422.9
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	2739.1	0.0	2739.1
	% Fixture	86.6	0.0	86.6
Total	Lumens	3162.0	0.0	3162.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.9	1.1
10°-20°	92.0	2.9
20°-30°	174.4	5.5
30°-40°	352.9	11.2
40°-50°	601.1	19.0
50°-60°	817.5	25.9
60°-70°	767.7	24.3
70°-80°	307.6	9.7
80°-90°	14.9	0.5
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°	3162.0	100.0
0°-180°	3162.0	100.0

Coefficient of Utilization



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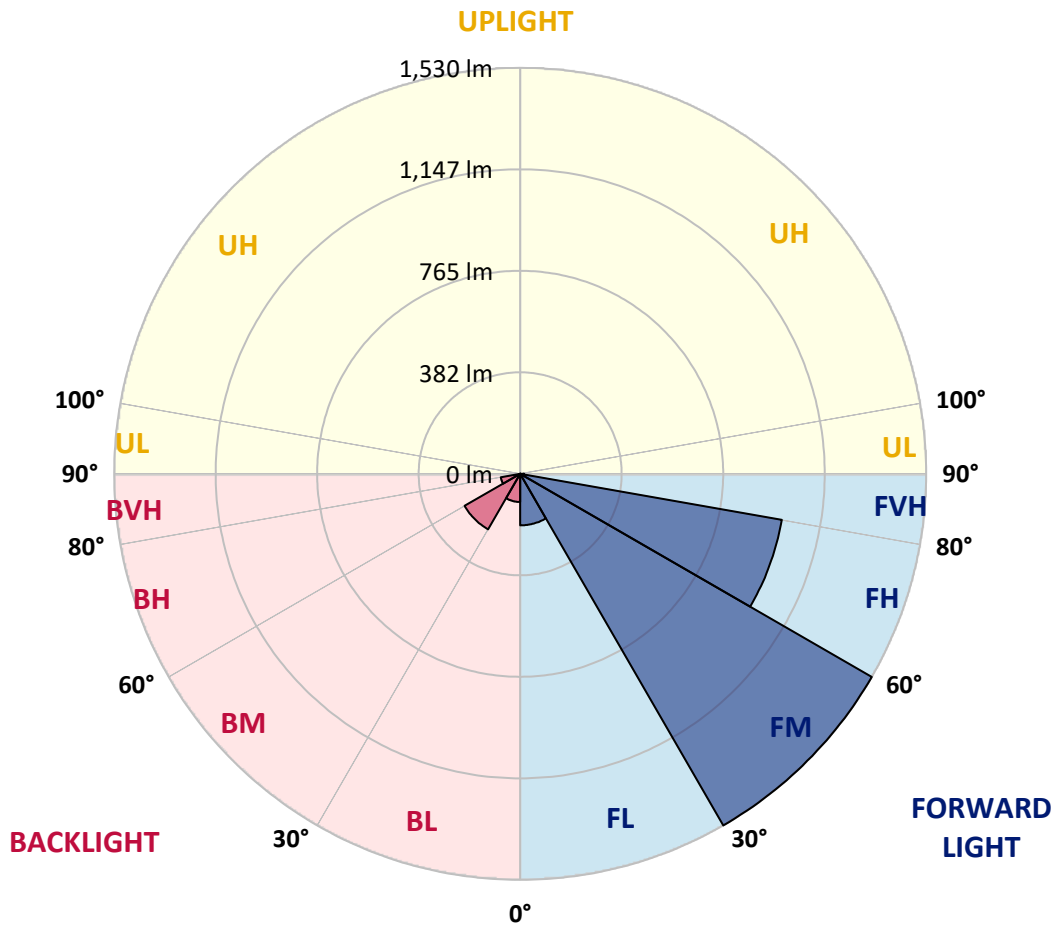
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	194.2	6.1			
FM (30°-60°)	1529.8	48.4			
FH (60°-80°)	1001.0	31.7			G1/1800
FVH (80°-90°)	14.2	0.4			G1/100
BL (0°-30°)	106.2	3.4	B0/110		
BM (30°-60°)	241.7	7.6	B1/1000		
BH (60°-80°)	74.2	2.3	B0/110		G0/110
BVH (80°-90°)	0.7	0.0			G0/10
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	367.8	367.8	367.8	367.8	367.8	367.8	367.8	367.8	367.8	367.8
2.5°	366.5	369.0	368.4	367.8	367.6	368.0	368.2	368.0	368.0	368.0
5°	359.5	361.6	361.6	363.1	365.2	367.8	369.7	370.1	370.5	371.2
7.5°	346.2	347.8	349.1	354.0	359.3	366.1	371.8	374.8	375.2	377.5
10°	337.0	339.2	341.3	346.4	354.0	364.2	373.9	381.1	382.2	387.7
12.5°	336.6	338.7	341.5	347.0	355.9	366.7	378.6	389.0	390.9	398.9
15°	341.1	343.6	346.2	352.9	362.5	375.6	388.3	401.3	403.2	414.6
17.5°	350.2	353.6	355.5	362.3	372.4	387.1	403.8	418.6	420.3	433.7
20°	368.2	372.2	372.9	378.4	388.3	404.0	423.9	442.4	444.5	459.8
22.5°	405.5	411.2	406.1	408.9	417.8	433.5	455.1	478.4	481.4	498.8
25°	471.2	479.3	466.1	461.5	465.3	481.6	508.7	538.2	541.6	555.6
27.5°	600.3	589.9	570.0	550.5	539.0	548.4	578.9	615.4	619.6	633.2
30°	742.1	733.0	706.1	662.8	635.7	634.2	662.4	703.1	708.0	720.9
32.5°	884.1	875.4	846.2	793.0	745.9	722.6	742.1	787.3	789.8	798.1
35°	1023.8	1014.9	985.7	931.2	873.3	820.3	816.5	867.4	868.2	876.9
37.5°	1164.4	1156.9	1125.8	1072.4	1015.4	942.2	906.8	943.3	944.3	952.8
40°	1264.6	1267.8	1246.4	1205.1	1156.1	1076.2	1008.1	1024.0	1017.7	1031.9
42.5°	1350.7	1357.1	1338.4	1317.6	1289.2	1218.8	1133.6	1130.9	1120.7	1128.3
45°	1425.1	1430.4	1413.6	1408.8	1408.1	1358.7	1270.8	1254.2	1240.0	1238.6
47.5°	1452.4	1462.6	1469.8	1486.1	1517.9	1497.2	1412.6	1386.9	1371.0	1359.4
50°	1462.8	1473.6	1498.2	1545.7	1621.0	1629.9	1553.8	1524.9	1505.4	1484.2
52.5°	1448.8	1468.1	1501.2	1581.1	1690.3	1736.3	1689.2	1664.0	1641.7	1607.2
55°	1366.4	1385.7	1453.3	1580.7	1724.8	1810.9	1817.2	1806.0	1781.0	1726.5
57.5°	1192.6	1221.2	1328.2	1526.8	1724.2	1875.1	1942.7	1950.8	1922.8	1844.8
60°	951.8	990.6	1121.1	1407.5	1671.0	1909.9	2052.7	2093.0	2063.3	1961.4
62.5°	664.1	709.1	832.6	1220.5	1549.3	1884.9	2133.1	2207.5	2185.0	2065.7
65°	405.1	419.5	519.1	960.5	1342.4	1780.2	2157.9	2269.4	2262.0	2129.5
67.5°	269.8	281.9	310.5	658.6	1042.1	1570.9	2098.5	2258.6	2260.7	2119.1
70°	162.6	173.0	191.6	383.0	675.3	1243.4	1914.8	2120.8	2133.1	1980.3
72.5°	67.0	74.0	90.9	173.6	349.8	789.2	1524.7	1820.8	1849.5	1665.0
75°	37.9	41.5	53.4	87.1	151.8	367.8	923.6	1292.6	1334.8	1147.6
77.5°	25.2	26.9	34.6	56.4	85.4	125.5	394.7	673.4	754.0	626.8
80°	17.0	18.4	23.7	37.7	55.5	53.8	125.7	249.5	306.9	215.4
82.5°	11.4	11.7	17.0	24.8	35.2	26.1	37.1	77.6	97.5	62.3
85°	6.6	6.4	12.5	14.4	15.7	10.8	11.2	23.3	30.5	26.3
87.5°	0.8	1.3	4.9	3.8	2.1	2.3	2.3	4.0	5.9	6.4
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°
367.8	0°	367.8	367.8	367.8	367.8	367.8	367.8	367.8	367.8	367.8	367.8
368.2	2.5°	368.2	368.0	367.3	366.7	365.2	364.4	364.8	364.4	364.2	364.4
371.0	5°	371.0	370.3	368.6	366.5	363.5	359.9	357.6	354.2	351.0	349.1
378.4	7.5°	378.4	377.7	375.4	369.5	359.9	344.9	331.1	319.0	309.9	304.6
390.2	10°	390.2	389.2	385.6	372.4	347.4	314.6	287.2	264.5	249.7	242.7
404.2	12.5°	404.2	403.0	396.6	369.7	323.7	272.4	234.7	209.4	195.7	189.5
420.3	15°	420.8	419.1	406.6	356.5	289.1	225.8	191.2	172.3	163.4	157.9
440.9	17.5°	441.3	438.4	414.0	336.8	251.6	190.1	164.5	150.3	142.4	137.1
467.8	20°	468.0	463.2	419.9	313.3	217.1	167.7	146.5	134.6	128.7	124.0
506.0	22.5°	505.3	498.3	427.1	287.9	192.7	152.2	133.1	124.4	119.6	114.3
559.2	25°	551.6	543.3	436.0	264.3	175.9	138.8	123.4	116.2	110.4	104.3
628.9	27.5°	616.2	601.4	446.6	245.0	161.5	127.4	114.5	106.4	99.8	94.8
708.0	30°	688.3	663.9	456.0	233.4	148.4	116.8	102.8	94.8	88.6	85.0
779.0	32.5°	756.5	723.5	462.1	228.3	136.5	104.7	90.1	81.4	76.7	75.7
848.5	35°	821.0	777.3	461.5	223.4	125.9	92.6	77.6	68.7	65.1	65.7
923.4	37.5°	895.2	834.8	457.0	215.8	117.2	81.6	66.8	58.9	55.7	56.0
1014.3	40°	981.4	901.1	454.3	201.4	107.7	71.4	57.9	51.5	49.2	48.3
1110.1	42.5°	1073.4	965.3	454.7	185.1	95.8	62.3	51.7	46.4	44.3	43.7
1216.7	45°	1165.9	1026.6	455.3	168.1	83.3	55.3	47.3	42.8	41.5	40.7
1324.8	47.5°	1252.8	1078.7	443.4	149.9	71.0	50.0	43.7	40.7	39.6	38.6
1433.4	50°	1333.7	1113.5	414.8	128.7	61.3	45.8	40.9	38.8	37.7	36.7
1531.7	52.5°	1396.7	1119.0	367.6	106.8	54.5	42.6	39.2	37.3	36.0	35.0
1611.2	55°	1424.7	1084.5	300.4	86.5	49.2	39.9	37.5	35.6	34.1	33.1
1673.7	57.5°	1417.5	1011.7	234.2	69.5	44.1	37.1	35.4	34.1	32.4	30.7
1724.4	60°	1382.1	914.5	176.6	57.9	39.4	34.1	33.1	32.0	29.7	27.1
1743.9	62.5°	1320.8	792.1	125.9	47.9	34.3	30.7	30.3	29.5	26.1	21.4
1715.1	65°	1227.1	643.6	84.8	39.9	29.5	26.9	27.1	25.6	21.2	15.9
1609.5	67.5°	1090.2	470.6	54.3	32.6	24.6	22.5	22.7	21.8	18.0	13.6
1409.4	70°	915.7	311.6	35.4	24.8	19.7	17.4	18.7	18.9	15.3	11.0
1081.7	72.5°	671.3	184.0	24.8	18.4	14.4	12.1	15.3	15.7	12.3	8.3
650.8	75°	382.6	87.3	18.7	13.4	8.9	8.5	11.9	11.9	8.5	5.5
281.7	77.5°	160.7	36.5	13.1	8.7	5.1	4.9	8.1	7.4	4.2	2.5
68.7	80°	46.4	16.3	7.0	4.2	2.1	1.9	3.2	2.3	1.1	0.4
26.1	82.5°	18.2	7.2	2.8	1.7	0.8	0.8	0.4	0.0	0.0	0.0
14.8	85°	10.8	3.0	1.3	0.6	0.2	0.0	0.0	0.0	0.0	0.0
3.2	87.5°	2.8	0.6	0.4	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

<u>180°</u>
367.8
365.2
349.5
304.8
242.1
188.9
158.1
136.7
123.2
113.4
103.7
93.7
84.4
76.3
65.7
56.8
48.1
43.5
40.7
38.6
36.7
34.8
32.9
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