

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: P945101

Luminaire Tested: **GALN-SB1A-927-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945101
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
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-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2104 lumens
Efficiency: N/A
Efficacy: 68.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

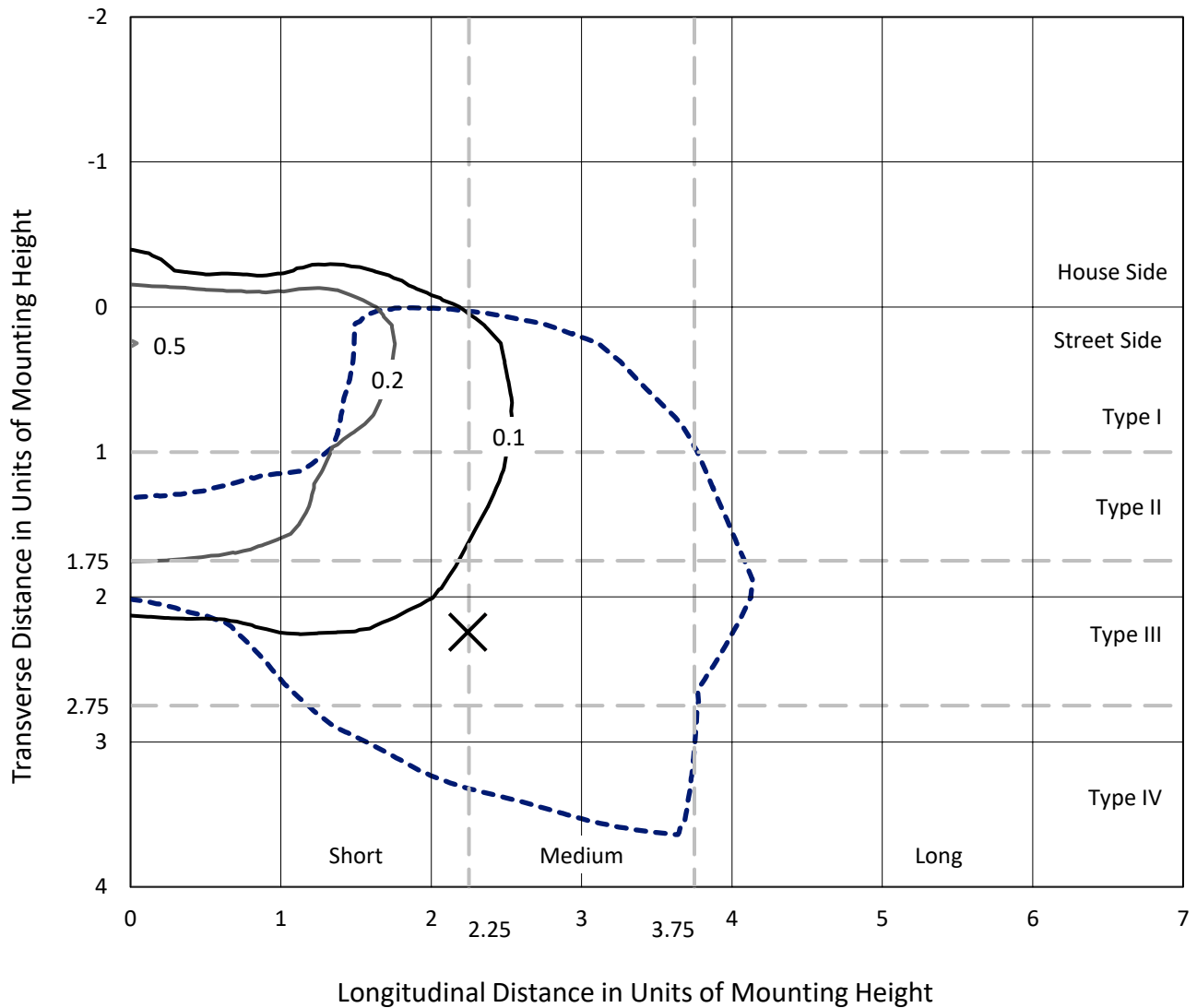
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

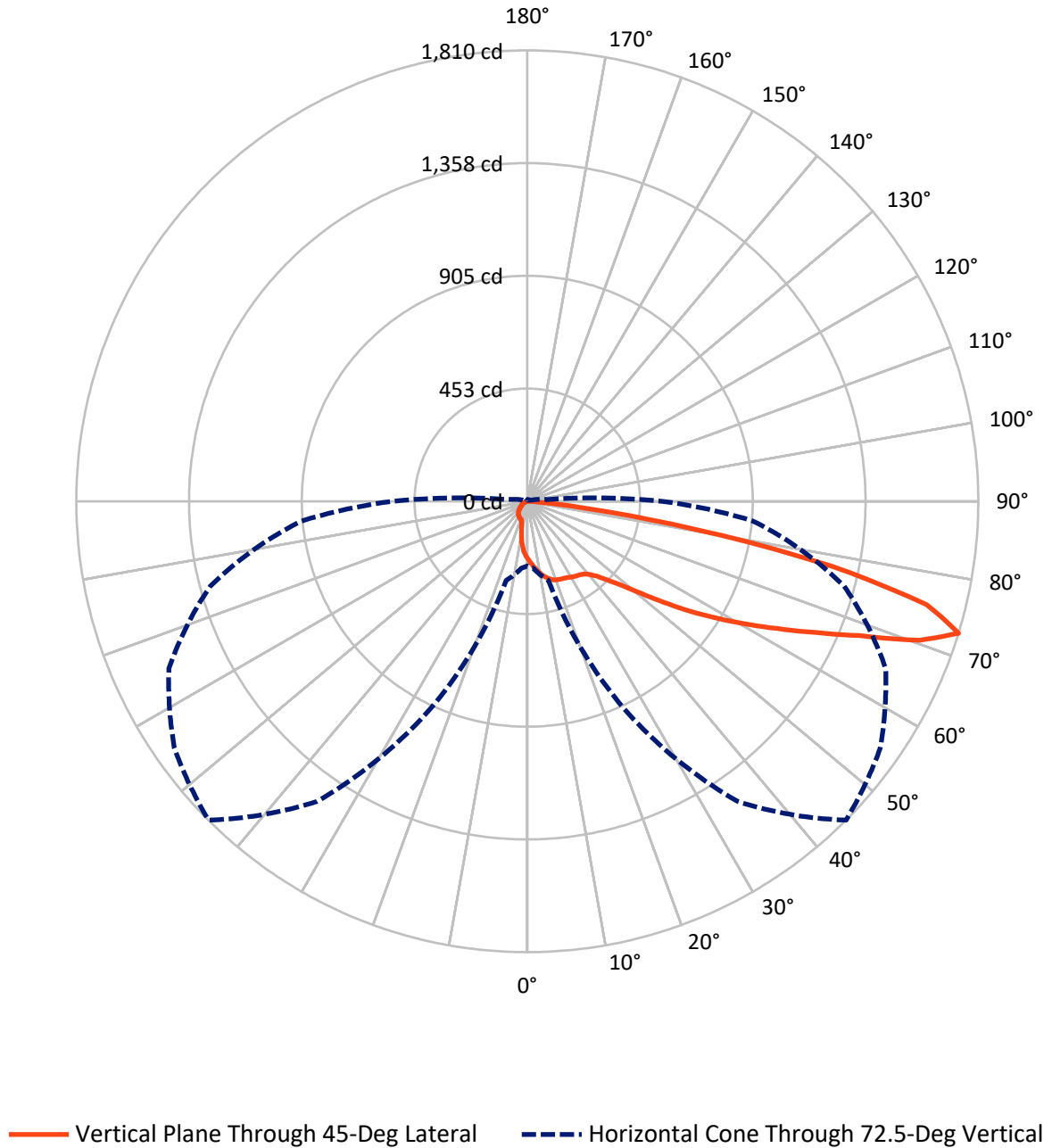
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	221.1	0.0	221.1
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	1882.9	0.0	1882.9
	% Fixture	89.5	0.0	89.5
Total	Lumens	2104.0	0.0	2104.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.7	1.0
10°-20°	63.5	3.0
20°-30°	104.2	5.0
30°-40°	147.8	7.0
40°-50°	244.3	11.6
50°-60°	438.9	20.9
60°-70°	609.5	29.0
70°-80°	442.1	21.0
80°-90°	32.0	1.5
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°	2104.0	100.0
0°-180°	2104.0	100.0

Coefficient of Utilization



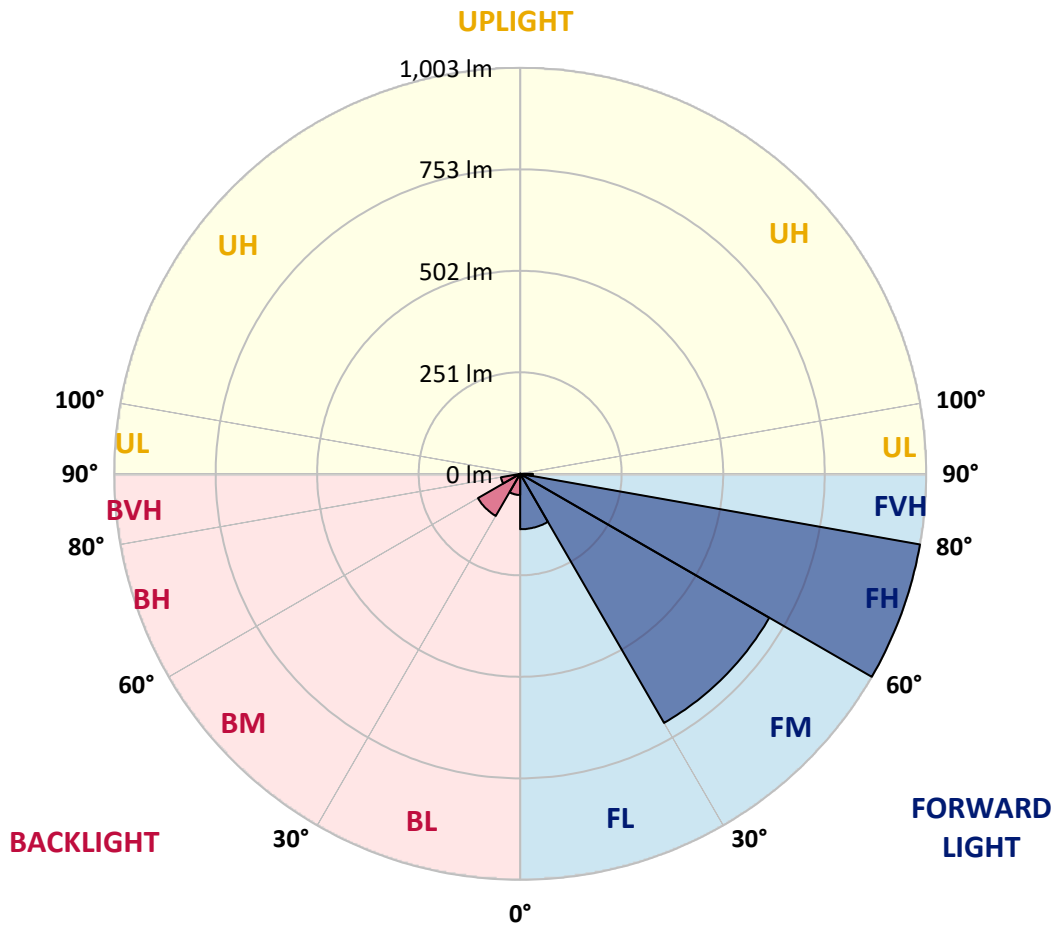
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	137.1	6.5			
FM (30°-60°)	710.8	33.8			
FH (60°-80°)	1003.3	47.7			G1/1800
FVH (80°-90°)	31.7	1.5			G1/100
BL (0°-30°)	52.4	2.5	B0/110		
BM (30°-60°)	120.2	5.7	B0/220		
BH (60°-80°)	48.2	2.3	B0/110		G0/110
BVH (80°-90°)	0.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	230.5	230.5	230.5	230.5	230.5	230.5	230.5	230.5	230.5	230.5
2.5°	251.8	252.2	251.9	250.2	247.3	245.7	244.9	242.0	240.1	236.8
5°	274.9	276.6	275.6	272.1	266.7	262.8	261.7	255.8	250.5	244.3
7.5°	299.4	300.3	298.4	294.0	286.7	280.0	279.0	270.9	262.4	252.9
10°	320.7	321.7	318.8	312.4	304.0	295.8	294.4	285.4	275.3	263.7
12.5°	338.5	339.5	335.8	328.0	318.8	310.3	308.9	299.4	288.4	275.4
15°	352.0	353.9	348.8	340.5	330.6	322.1	321.4	312.1	301.3	286.9
17.5°	359.9	361.8	357.0	347.0	338.5	331.3	330.5	322.7	312.6	298.9
20°	361.2	362.9	357.9	349.1	342.1	336.3	335.9	330.3	323.0	309.8
22.5°	357.3	359.5	354.9	347.8	342.9	339.9	339.4	336.2	332.0	320.8
25°	353.3	355.0	351.6	345.4	342.8	342.5	342.9	342.4	341.5	332.0
27.5°	353.0	354.9	351.0	345.1	343.7	346.7	347.1	349.8	350.6	342.2
30°	355.4	356.7	353.0	346.8	346.1	353.0	353.1	358.0	359.2	350.8
32.5°	360.8	362.2	358.5	349.4	348.4	358.0	358.5	364.9	366.8	360.0
35°	373.2	375.0	370.7	356.6	353.0	362.8	364.1	371.7	375.4	369.8
37.5°	404.4	399.4	393.5	371.1	363.5	370.2	372.4	381.3	387.9	381.4
40°	481.8	466.0	447.6	395.8	381.9	386.2	387.9	396.8	405.8	399.5
42.5°	598.0	579.3	549.7	452.7	409.6	411.7	413.0	420.8	433.6	428.5
45°	701.5	694.8	664.6	549.7	461.4	450.8	452.4	456.4	475.2	473.3
47.5°	781.1	777.2	754.0	661.2	549.0	498.6	503.1	504.9	532.1	538.7
50°	842.3	840.8	820.0	760.3	663.5	569.1	570.7	566.7	607.3	623.7
52.5°	900.0	904.9	889.5	852.3	785.7	661.5	661.2	642.2	697.1	721.8
55°	952.1	953.9	955.5	946.3	908.6	766.6	763.9	732.9	801.2	826.8
57.5°	1001.1	1001.8	1015.9	1034.7	1036.6	879.5	874.5	837.3	915.0	933.2
60°	1034.0	1037.3	1067.0	1119.3	1142.1	996.0	993.2	955.3	1030.7	1039.2
62.5°	986.6	1006.7	1081.7	1185.4	1241.8	1125.1	1123.8	1088.2	1152.5	1145.6
65°	798.6	832.7	964.5	1230.0	1339.6	1269.2	1271.1	1233.2	1277.6	1255.2
67.5°	558.7	594.6	750.5	1233.6	1448.9	1438.6	1449.3	1389.9	1410.4	1360.2
70°	386.3	404.8	506.4	1156.4	1534.1	1671.8	1671.5	1582.3	1542.5	1408.0
72.5°	259.8	269.4	328.9	917.4	1471.5	1810.4	1802.0	1729.4	1587.1	1316.8
75°	109.6	116.6	152.2	515.6	1164.1	1656.3	1633.7	1528.3	1410.1	1036.9
77.5°	34.8	37.8	60.0	184.5	641.2	1245.0	1221.1	954.4	945.1	520.2
80°	16.5	19.2	33.7	74.1	252.3	677.1	673.8	433.0	406.6	140.5
82.5°	7.2	8.5	18.7	39.6	112.9	241.6	246.4	147.3	121.9	53.3
85°	2.3	3.0	8.6	18.2	47.7	60.0	59.3	35.0	49.1	29.0
87.5°	0.0	0.0	2.9	4.2	4.9	3.4	3.9	3.0	13.6	8.0
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°
230.5	0°	230.5	230.5	230.5	230.5	230.5	230.5	230.5	230.5	230.5	230.5
233.4	2.5°	231.6	229.3	225.3	221.6	218.3	215.0	213.0	210.1	209.8	209.8
237.1	5°	233.2	229.5	222.3	214.7	205.9	197.6	189.3	181.2	178.7	176.8
243.1	7.5°	237.8	231.9	220.6	206.1	189.4	171.2	158.4	144.6	139.3	136.4
251.2	10°	244.4	236.4	219.2	193.7	166.7	141.9	123.7	108.7	103.0	100.5
259.9	12.5°	251.8	241.8	216.6	178.4	141.9	112.2	94.4	87.5	86.6	86.6
270.4	15°	260.5	248.4	212.1	160.3	115.9	88.8	82.4	82.7	83.6	84.2
280.6	17.5°	269.6	255.5	205.1	140.0	92.9	79.8	80.0	80.4	81.1	81.7
291.7	20°	279.3	262.5	195.7	118.5	79.7	77.3	77.7	78.1	78.7	79.0
302.0	22.5°	289.8	269.1	184.7	97.4	75.3	75.1	75.3	75.7	76.4	76.4
314.1	25°	301.0	276.5	172.0	82.0	73.0	73.0	73.2	73.5	74.1	74.1
325.7	27.5°	312.5	283.2	158.7	74.0	70.9	70.8	70.8	71.2	71.5	71.7
337.2	30°	325.1	291.1	145.3	72.2	69.4	68.6	68.2	68.5	68.8	68.9
349.3	32.5°	338.1	298.7	133.4	73.0	67.8	66.5	65.1	64.8	64.8	65.3
361.8	35°	352.4	307.0	124.2	75.4	66.9	63.3	61.0	59.7	59.9	60.7
376.7	37.5°	369.7	317.1	117.5	77.6	66.3	59.7	56.0	54.4	53.4	54.4
397.2	40°	392.2	331.9	112.6	79.3	65.6	55.6	50.6	48.0	46.1	46.7
429.1	42.5°	425.4	355.2	110.7	79.4	64.1	50.7	45.0	41.5	38.8	38.9
477.1	45°	471.9	391.9	120.3	77.6	60.6	45.4	39.1	34.5	32.7	32.3
548.7	47.5°	535.7	445.5	142.6	73.7	55.6	40.2	33.3	29.4	28.1	27.4
642.8	50°	621.1	514.3	167.3	69.4	50.6	35.3	28.6	26.1	25.3	24.6
754.4	52.5°	720.2	584.1	187.6	65.1	45.5	31.0	25.6	24.1	23.4	22.8
862.1	55°	811.1	632.2	186.4	60.5	40.6	27.6	23.4	22.5	21.7	21.1
954.9	57.5°	867.7	638.9	153.7	55.4	35.0	24.8	21.4	20.8	19.8	19.1
1035.2	60°	893.7	600.4	107.7	48.8	29.4	22.3	19.2	19.0	17.7	16.7
1111.1	62.5°	898.4	528.9	71.8	40.6	24.6	19.8	17.1	16.7	14.9	13.2
1172.9	65°	879.2	426.7	49.7	31.7	21.0	17.2	14.6	13.8	11.9	10.2
1187.5	67.5°	818.3	299.6	34.6	22.8	17.8	13.6	11.6	11.3	9.9	8.5
1112.9	70°	706.7	170.8	23.1	17.1	14.1	9.3	9.2	9.5	8.0	6.9
909.2	72.5°	541.8	78.1	14.4	12.5	9.6	6.3	7.3	7.5	6.2	5.2
567.3	75°	319.0	33.5	9.0	8.0	4.9	4.2	5.3	5.5	4.2	3.3
207.4	77.5°	108.6	12.6	5.7	4.7	2.4	2.3	3.4	3.4	2.3	1.3
41.6	80°	24.7	4.7	2.9	1.9	1.1	1.0	1.1	1.0	0.6	0.1
12.8	82.5°	7.0	1.9	1.1	0.7	0.4	0.4	0.1	0.0	0.0	0.0
4.5	85°	2.0	0.9	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
1.6	87.5°	0.9	0.1	0.0	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>
230.5
210.5
177.6
136.9
100.5
86.6
84.2
81.7
79.1
76.7
74.2
71.8
69.2
65.8
61.2
54.1
46.4
38.3
31.7
27.0
24.4
22.7
20.8
19.0
16.4
12.4
9.6
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4.6
2.9
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