

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: P945816

Luminaire Tested: **GALN-SB1C-927-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945816
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-927-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4551 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

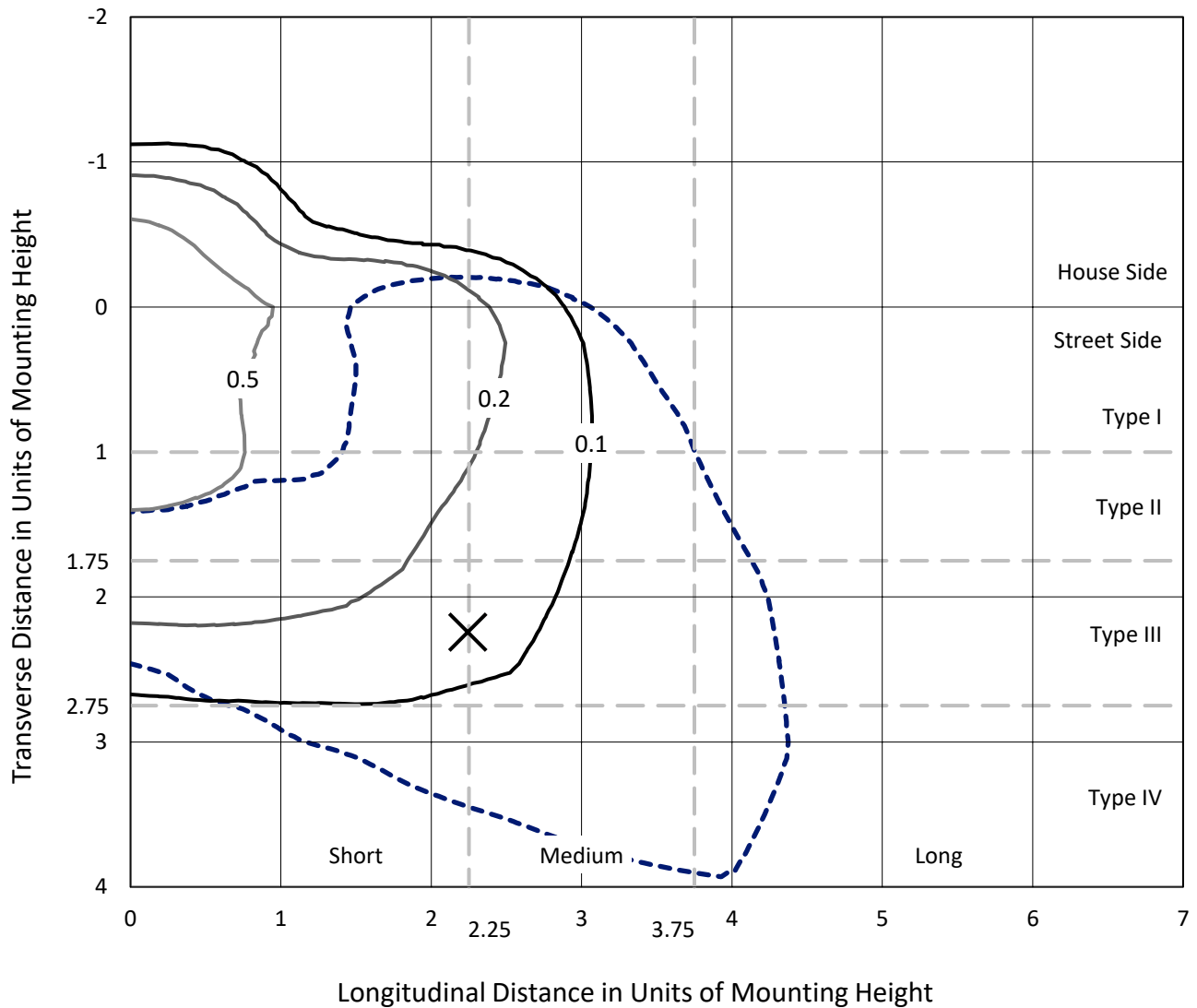
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

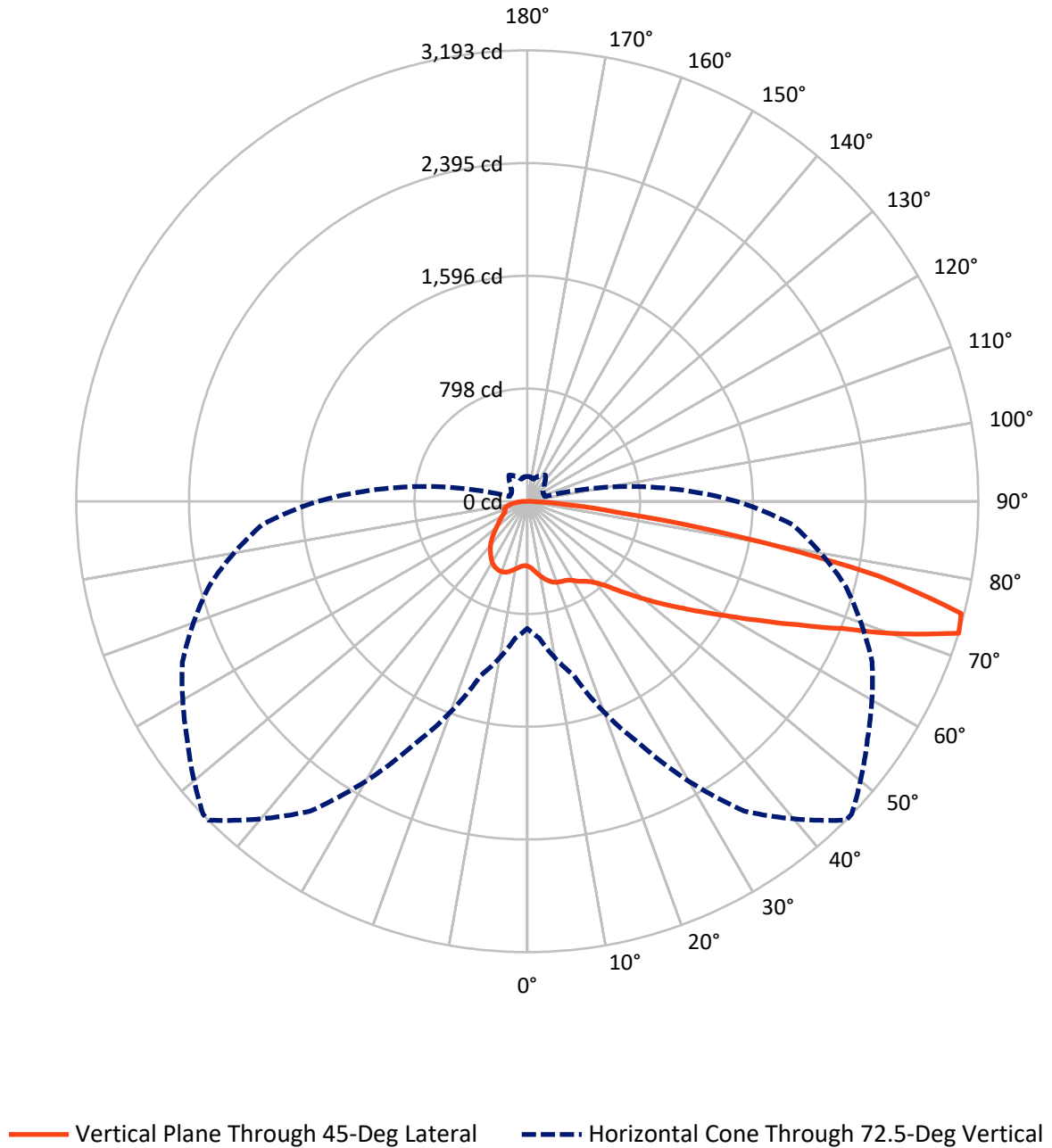
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1028.8	0.0	1028.8
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	3522.2	0.0	3522.2
	% Fixture	77.4	0.0	77.4
Total	Lumens	4551.0	0.0	4551.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.7	1.0
10°-20°	155.8	3.4
20°-30°	271.0	6.0
30°-40°	388.5	8.5
40°-50°	547.1	12.0
50°-60°	837.9	18.4
60°-70°	1213.9	26.7
70°-80°	969.3	21.3
80°-90°	120.7	2.7
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°	4551.0	100.0
0°-180°	4551.0	100.0



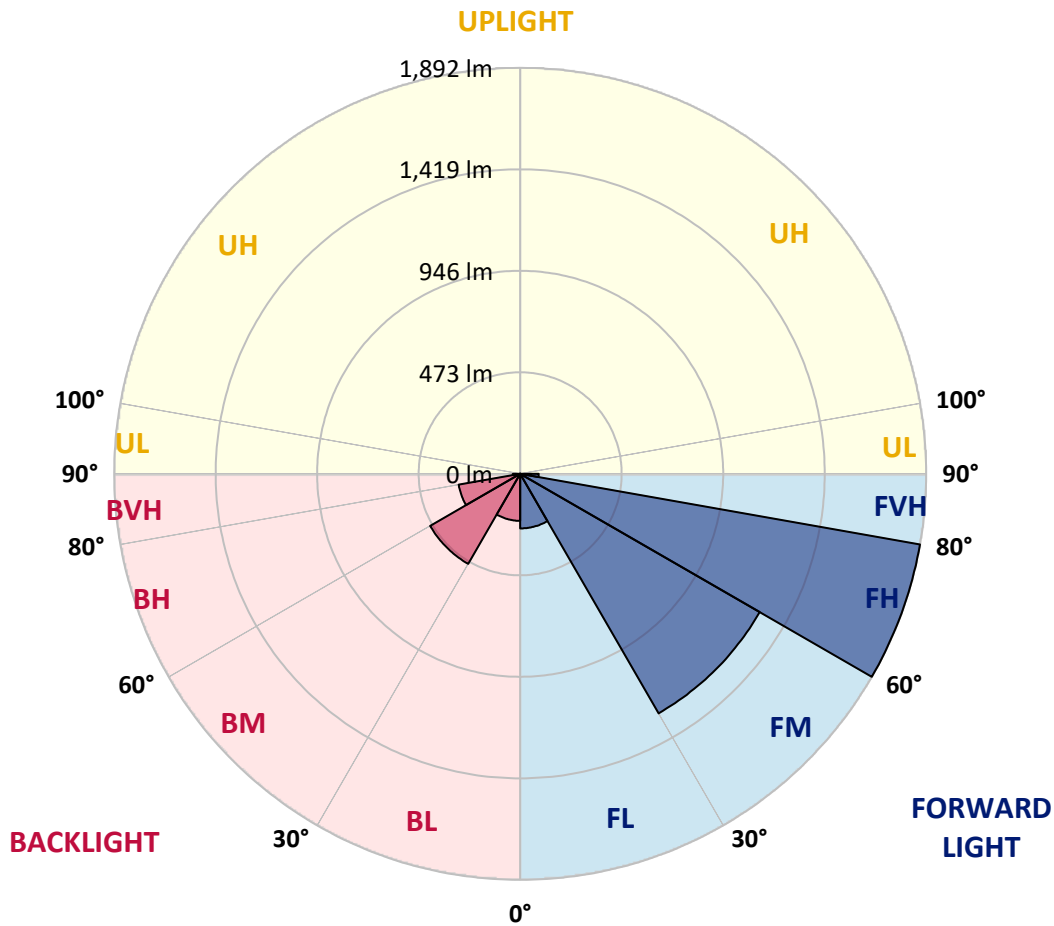
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	254.5	5.6			
FM (30°-60°)	1289.1	28.3			
FH (60°-80°)	1892.0	41.6			G2/5000
FVH (80°-90°)	86.6	1.9			G1/100
BL (0°-30°)	219.0	4.8	B1/500		
BM (30°-60°)	484.4	10.6	B1/1000		
BH (60°-80°)	291.2	6.4	B1/500		G1/500
BVH (80°-90°)	34.1	0.7			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	459.1	459.1	459.1	459.1	459.1	459.1	459.1	459.1	459.1	459.1
2.5°	477.1	480.2	477.3	474.7	473.5	470.4	470.1	468.2	467.0	463.7
5°	510.4	514.5	509.7	504.4	499.6	492.0	491.0	485.5	479.2	472.1
7.5°	548.1	551.6	546.1	538.2	529.8	517.1	516.9	506.8	497.0	484.8
10°	580.9	585.7	578.3	567.5	556.9	542.5	540.9	529.4	516.9	501.1
12.5°	609.9	613.3	606.1	592.9	580.7	566.3	564.1	551.4	537.5	519.5
15°	632.9	637.2	627.6	613.5	600.6	586.4	584.5	573.0	559.1	540.1
17.5°	648.0	651.6	641.8	626.0	613.5	601.8	600.3	590.7	578.5	559.3
20°	653.8	657.6	647.3	631.2	619.7	610.6	609.9	603.0	594.6	577.1
22.5°	659.5	663.1	649.7	632.9	622.9	617.1	616.9	612.3	608.9	594.6
25°	682.8	683.7	665.8	641.6	627.2	622.1	621.9	621.7	623.1	611.8
27.5°	702.9	702.7	687.3	664.6	642.3	631.7	631.5	633.9	638.4	629.1
30°	732.4	729.8	711.6	687.8	667.4	651.1	649.7	647.5	651.1	643.7
32.5°	795.0	786.6	757.1	714.9	688.3	675.8	673.9	660.5	661.9	657.4
35°	884.7	873.6	834.3	766.2	714.2	696.5	695.5	678.5	675.6	671.5
37.5°	991.3	977.7	931.9	840.5	758.8	720.4	719.0	703.6	691.9	687.6
40°	1098.5	1081.2	1043.4	931.2	824.5	760.5	755.9	732.7	719.2	712.0
42.5°	1202.5	1188.2	1155.8	1032.8	905.5	819.0	808.9	769.1	759.0	752.3
45°	1294.6	1281.7	1257.9	1141.4	1000.4	898.6	888.7	823.8	820.6	820.6
47.5°	1369.4	1366.5	1341.4	1252.2	1112.4	989.2	972.2	899.8	908.1	921.1
50°	1452.4	1444.4	1417.6	1361.3	1244.0	1093.0	1079.1	993.0	1024.4	1059.9
52.5°	1528.6	1532.9	1502.9	1474.9	1392.7	1208.8	1184.3	1103.1	1170.9	1229.6
55°	1607.0	1607.2	1598.8	1595.0	1548.5	1336.8	1310.0	1235.4	1343.3	1416.2
57.5°	1680.6	1681.1	1693.5	1727.3	1729.3	1484.5	1454.0	1397.9	1534.8	1609.2
60°	1746.3	1749.6	1783.7	1862.8	1888.2	1653.7	1625.0	1590.0	1732.9	1807.7
62.5°	1768.3	1780.6	1856.3	1968.8	2045.2	1861.4	1833.1	1812.2	1941.0	2010.5
65°	1730.9	1759.0	1905.5	2056.3	2206.8	2108.1	2080.0	2057.2	2157.2	2222.7
67.5°	1639.1	1675.3	1902.6	2148.1	2402.9	2404.9	2378.7	2325.3	2389.0	2414.2
70°	1397.2	1451.4	1735.0	2182.4	2628.1	2810.7	2785.6	2648.0	2620.4	2498.6
72.5°	900.2	973.1	1277.6	1900.2	2678.2	3192.7	3191.2	2939.2	2693.5	2334.6
75°	328.4	373.0	593.6	1192.7	2248.1	3173.2	3182.6	2889.4	2458.8	1803.3
77.5°	119.6	130.9	193.7	458.4	1382.6	2546.1	2565.5	2309.9	1750.1	905.0
80°	62.8	69.0	99.3	177.9	592.4	1512.1	1542.5	1372.8	822.6	272.6
82.5°	34.8	37.6	55.6	96.6	266.8	646.6	664.8	542.3	289.4	115.6
85°	18.7	19.9	26.1	52.7	130.4	224.2	229.2	162.1	115.3	67.8
87.5°	5.5	6.7	8.6	16.8	51.1	50.3	51.5	32.1	45.6	34.3
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°
459.1	0°	459.1	459.1	459.1	459.1	459.1	459.1	459.1	459.1	459.1	459.1
462.7	2.5°	461.3	460.5	457.9	456.7	455.3	455.0	456.2	456.5	456.7	456.9
468.0	5°	465.6	463.2	460.8	459.3	459.8	460.1	462.5	464.1	465.3	466.3
477.8	7.5°	474.0	472.1	468.0	467.7	468.5	470.6	473.7	477.6	479.7	481.4
490.5	10°	486.4	482.8	478.0	478.8	480.2	483.3	489.8	492.9	496.5	499.6
506.1	12.5°	499.1	496.0	490.5	491.0	493.4	498.9	505.1	509.0	511.4	513.8
522.9	15°	515.7	510.2	504.2	504.2	508.5	514.5	517.4	520.5	521.9	524.6
540.9	17.5°	532.7	525.5	517.6	517.1	522.4	525.3	527.0	527.4	527.9	530.8
558.4	20°	549.7	541.8	530.6	529.6	530.8	530.3	530.1	529.6	530.3	533.9
576.3	22.5°	566.5	557.4	541.8	537.5	534.1	529.6	529.4	529.1	529.6	533.2
595.8	25°	586.2	575.1	554.3	541.3	530.1	523.8	524.6	524.8	525.3	528.2
615.9	27.5°	607.5	595.3	565.8	540.1	519.8	515.4	514.2	515.0	516.6	521.2
636.0	30°	628.8	614.5	576.3	535.3	506.8	500.8	497.0	498.7	503.9	508.5
653.5	32.5°	648.3	633.9	584.7	524.8	490.3	480.9	475.9	478.0	483.3	485.0
673.0	35°	671.0	654.7	588.3	508.0	472.3	457.9	451.2	448.1	450.7	449.0
695.7	37.5°	696.5	679.4	587.8	486.0	451.2	434.7	425.3	413.6	408.0	402.3
729.3	40°	734.1	709.6	582.1	459.3	425.1	410.0	393.2	373.3	360.8	349.5
783.5	42.5°	785.4	751.6	571.5	430.1	395.6	381.4	358.7	335.4	315.7	297.0
865.7	45°	861.9	806.5	558.4	398.9	363.7	349.8	325.1	299.0	276.7	252.7
982.5	47.5°	972.2	880.3	545.9	363.4	330.1	317.4	295.1	270.9	244.5	221.3
1151.2	50°	1123.7	986.3	534.4	328.9	297.0	287.5	269.7	245.0	218.4	199.7
1349.0	52.5°	1316.4	1130.4	529.6	295.6	266.1	262.5	248.4	225.4	200.2	184.4
1579.7	55°	1537.7	1302.8	529.6	263.7	239.0	240.2	230.4	209.1	187.2	173.1
1817.5	57.5°	1763.5	1477.3	520.0	234.2	216.0	221.0	214.8	196.1	176.5	161.8
2067.5	60°	1971.6	1623.5	481.2	207.4	195.6	203.5	199.5	183.4	159.4	147.2
2276.6	62.5°	2131.6	1706.0	406.4	186.0	178.8	188.0	185.8	166.6	156.3	151.3
2448.3	65°	2211.6	1692.6	310.7	167.1	164.7	178.8	174.3	173.6	165.4	159.7
2504.1	67.5°	2162.5	1577.0	225.4	153.2	156.6	170.5	188.0	190.8	175.7	164.5
2346.8	70°	1947.0	1368.0	167.8	140.0	146.2	170.7	214.3	199.7	172.4	159.2
1882.2	72.5°	1481.1	1020.1	130.2	126.1	132.8	171.9	226.1	195.6	162.8	176.0
1172.6	75°	847.0	560.0	104.5	109.1	116.0	160.6	220.1	185.1	155.4	161.6
464.6	77.5°	322.9	215.3	86.3	92.3	93.3	140.2	210.5	184.4	147.9	144.3
139.3	80°	112.0	84.1	71.4	73.4	72.2	124.7	201.9	160.4	121.1	108.4
57.5	82.5°	45.8	42.0	56.6	54.2	51.3	96.9	163.0	131.1	99.0	87.5
27.8	85°	19.9	26.6	37.4	32.8	29.7	67.1	130.7	111.0	83.7	72.2
9.1	87.5°	4.1	10.1	15.8	14.9	15.3	44.8	92.8	78.9	59.2	44.4
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

180°
459.1
457.9
466.8
481.9
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514.7
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531.7
535.3
535.6
532.0
525.8
513.5
491.0
454.3
405.9
350.3
295.4
249.8
218.6
198.5
183.2
171.7
159.4
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149.6
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