

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: P942146

Luminaire Tested: **GALN-SB6A-735-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942146
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-SB6A-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21334 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

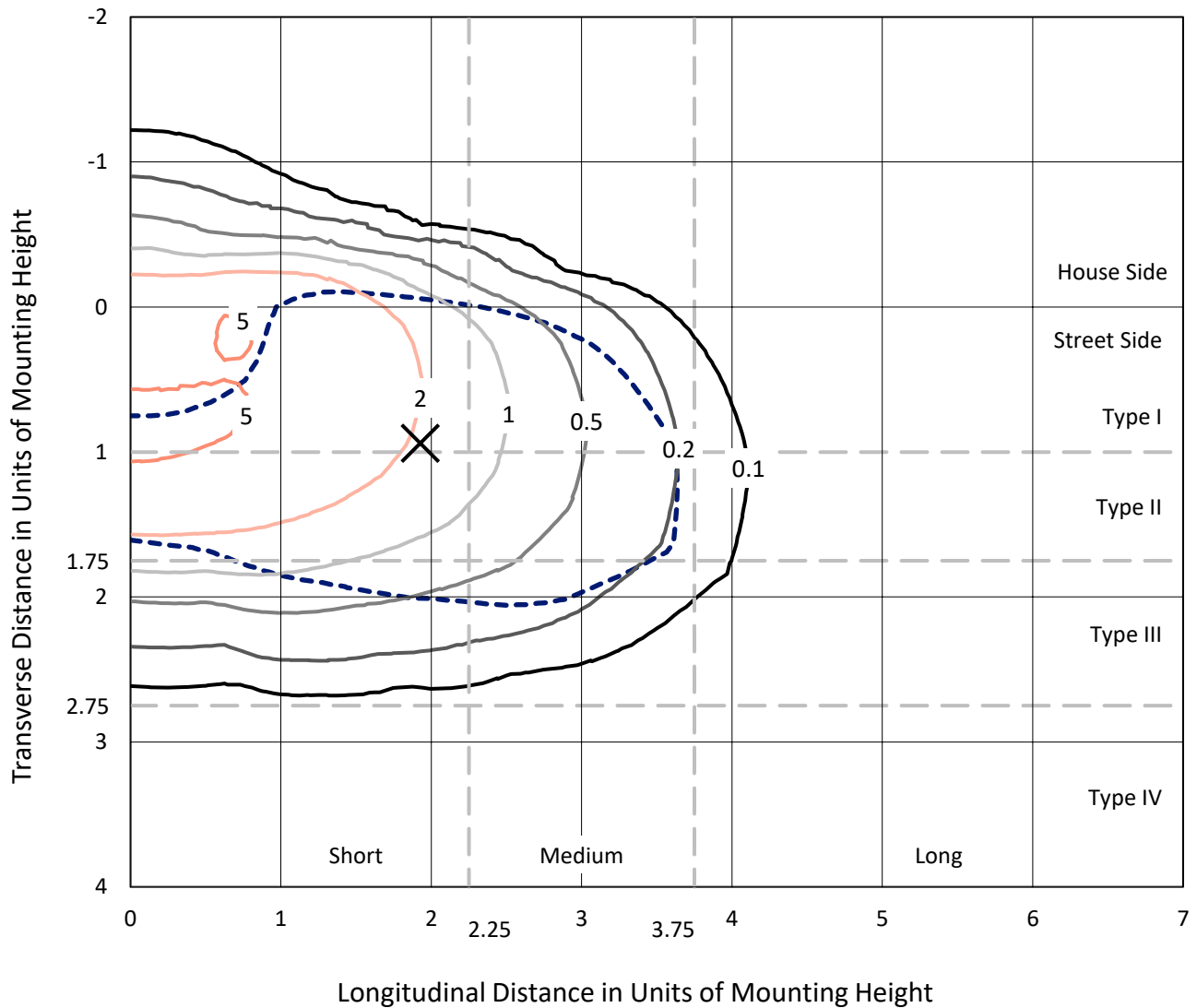
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

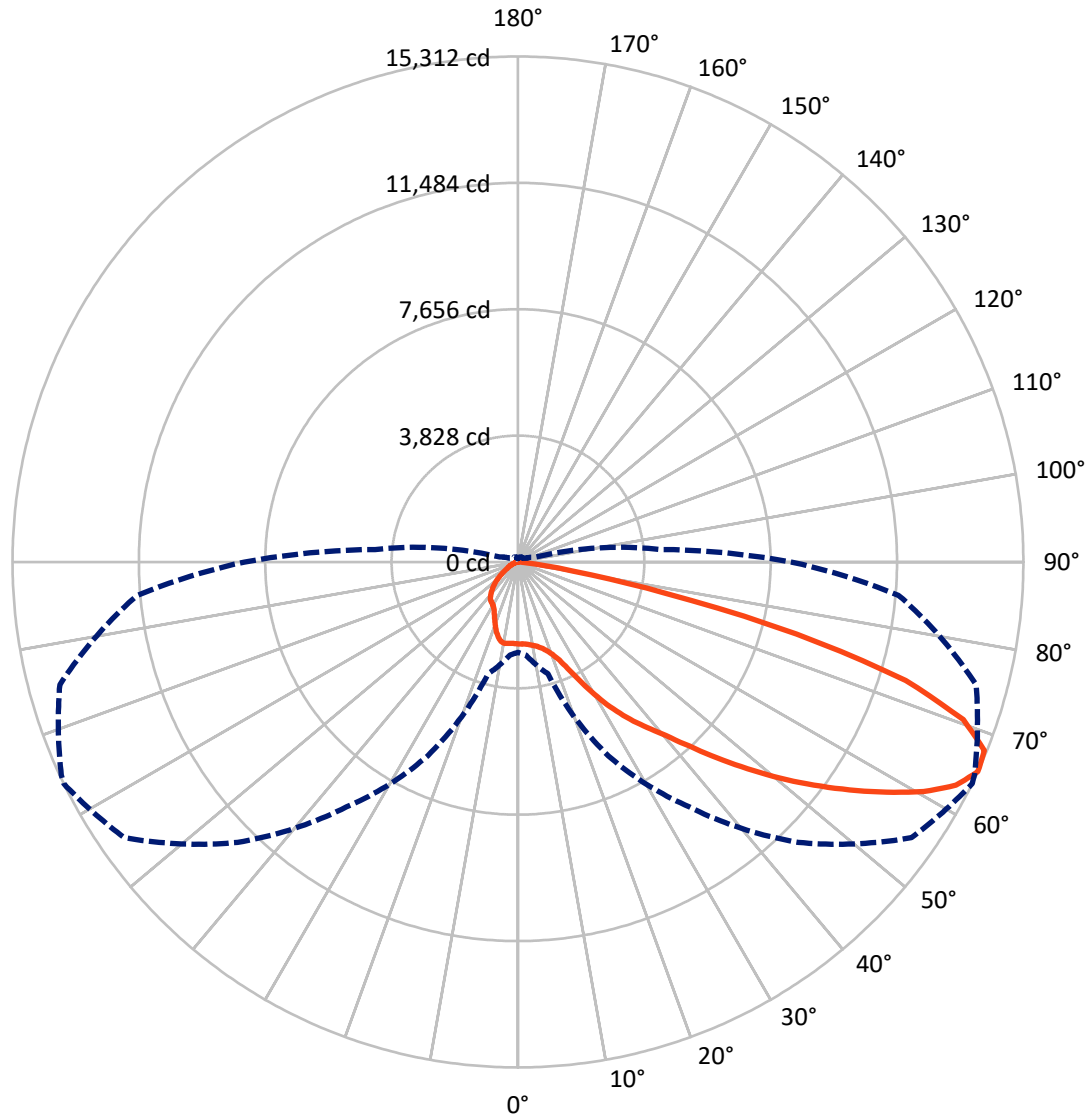
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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	2853.0	0.0	2853.0
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	18481.0	0.0	18481.0
	% Fixture	86.6	0.0	86.6
Total	Lumens	21334.0	0.0	21334.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.9	1.1
10°-20°	620.9	2.9
20°-30°	1176.6	5.5
30°-40°	2380.9	11.2
40°-50°	4055.9	19.0
50°-60°	5515.7	25.9
60°-70°	5179.5	24.3
70°-80°	2075.1	9.7
80°-90°	100.5	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°	21334.0	100.0
0°-180°	21334.0	100.0

Coefficient of Utilization



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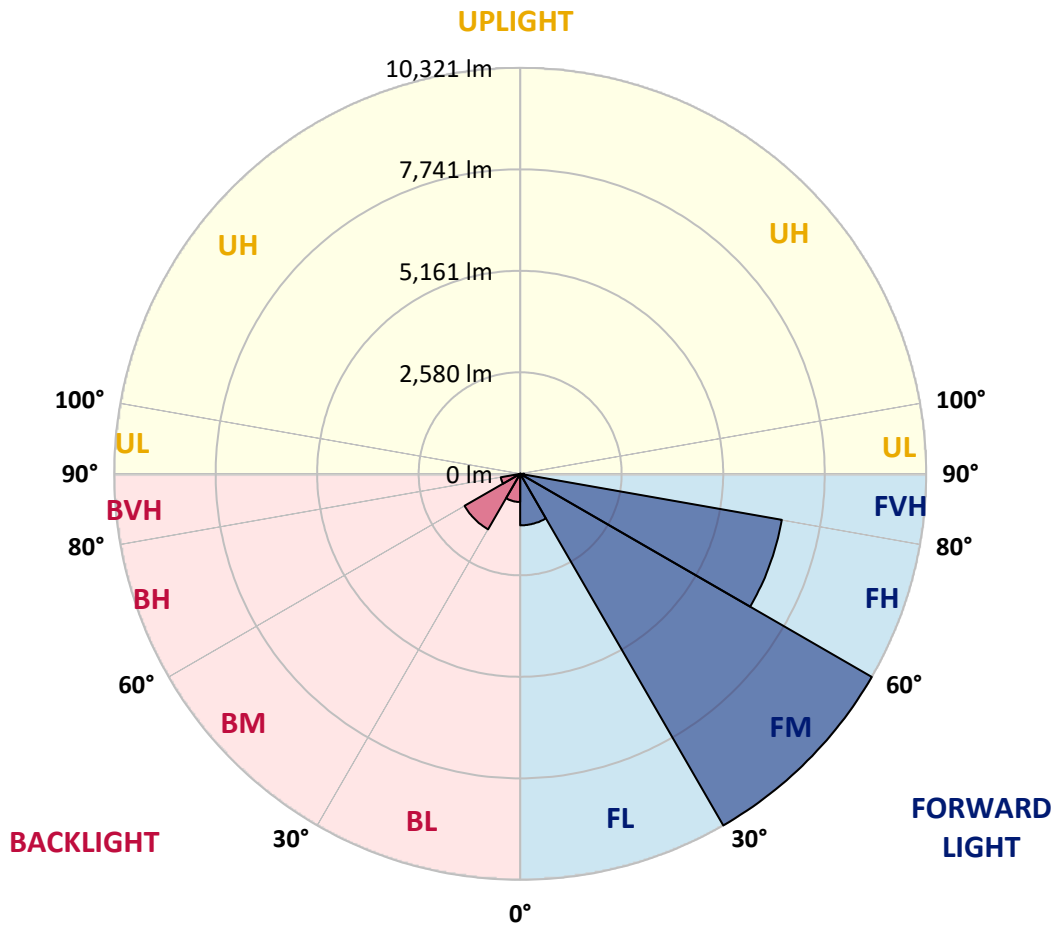
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1310.2	6.1			
FM (30°-60°)	10321.4	48.4			
FH (60°-80°)	6753.9	31.7			G3/7500
FVH (80°-90°)	95.6	0.4			G1/100
BL (0°-30°)	716.3	3.4	B2/1000		
BM (30°-60°)	1631.0	7.6	B2/2500		
BH (60°-80°)	500.8	2.3	B2/1000		G2/1000
BVH (80°-90°)	4.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	2481.4	2481.4	2481.4	2481.4	2481.4	2481.4	2481.4	2481.4	2481.4	2481.4
2.5°	2472.8	2489.9	2485.7	2481.4	2479.9	2482.8	2484.2	2482.8	2482.8	2482.8
5°	2425.6	2439.9	2439.9	2449.9	2464.2	2481.4	2494.2	2497.1	2500.0	2504.2
7.5°	2335.5	2346.9	2355.5	2388.4	2424.2	2469.9	2508.5	2528.6	2531.4	2547.2
10°	2274.0	2288.3	2302.6	2336.9	2388.4	2457.1	2522.8	2571.5	2578.6	2615.8
12.5°	2271.1	2285.4	2304.0	2341.2	2401.3	2474.2	2554.3	2624.4	2637.3	2691.6
15°	2301.2	2318.3	2335.5	2381.3	2445.6	2534.3	2620.1	2707.3	2720.2	2797.4
17.5°	2362.7	2385.5	2398.4	2444.2	2512.8	2611.5	2724.5	2824.6	2836.1	2926.2
20°	2484.2	2511.4	2515.7	2552.9	2620.1	2725.9	2860.4	2984.8	2999.1	3102.1
22.5°	2735.9	2774.6	2740.2	2758.8	2818.9	2924.7	3070.6	3227.9	3247.9	3365.2
25°	3179.3	3233.6	3145.0	3113.5	3139.2	3249.4	3432.4	3631.2	3654.1	3748.5
27.5°	4050.3	3980.2	3845.8	3714.2	3637.0	3699.9	3905.8	4151.8	4180.4	4272.0
30°	5007.1	4945.6	4763.9	4472.2	4289.1	4279.1	4469.3	4743.9	4776.8	4864.0
32.5°	5965.3	5906.7	5709.3	5350.3	5032.8	4875.5	5007.1	5311.7	5328.9	5384.6
35°	6907.8	6847.7	6650.3	6282.8	5892.3	5534.8	5509.1	5852.3	5858.0	5916.7
37.5°	7856.0	7805.9	7595.7	7235.3	6850.6	6357.2	6118.3	6364.3	6371.5	6428.7
40°	8532.5	8553.9	8409.5	8130.6	7800.2	7261.0	6801.9	6909.2	6866.3	6962.1
42.5°	9113.1	9156.0	9030.2	8890.0	8698.4	8223.5	7648.6	7630.0	7561.4	7612.9
45°	9615.1	9650.9	9537.9	9505.0	9500.7	9167.5	8573.9	8462.4	8366.6	8356.6
47.5°	9799.6	9868.3	9916.9	10027.0	10241.5	10101.4	9530.7	9357.7	9250.4	9171.8
50°	9869.7	9942.6	10108.5	10428.9	10936.6	10996.7	10483.2	10288.7	10157.2	10014.1
52.5°	9775.3	9905.4	10128.5	10667.7	11404.3	11714.6	11397.1	11226.9	11076.8	10843.6
55°	9219.0	9349.1	9805.3	10664.9	11637.4	12218.0	12261.0	12185.2	12016.4	11648.8
57.5°	8046.2	8239.3	8961.5	10301.6	11633.1	12651.4	13107.6	13162.0	12973.2	12446.9
60°	6421.5	6683.2	7564.2	9496.4	11274.1	12885.9	13849.9	14121.6	13921.4	13233.5
62.5°	4480.8	4784.0	5617.8	8235.0	10453.2	12717.2	14391.9	14893.9	14742.3	13937.1
65°	2733.1	2830.3	3502.5	6480.2	9057.3	12010.7	14559.3	15311.5	15261.5	14367.6
67.5°	1820.6	1902.1	2095.2	4443.6	7030.8	10599.1	14158.8	15238.6	15252.9	14297.5
70°	1096.9	1167.0	1292.9	2584.3	4556.6	8389.4	12918.8	14309.0	14391.9	13360.8
72.5°	451.9	499.1	613.5	1171.3	2359.8	5324.6	10287.3	12285.3	12478.3	11234.1
75°	256.0	280.3	360.4	587.8	1024.0	2481.4	6231.3	8721.2	9005.9	7743.0
77.5°	170.2	181.6	233.1	380.4	576.4	846.7	2663.0	4543.7	5087.2	4229.0
80°	114.4	124.4	160.2	254.6	374.7	363.3	848.1	1683.3	2070.9	1453.1
82.5°	77.2	78.7	114.4	167.3	237.4	175.9	250.3	523.4	657.9	420.5
85°	44.3	42.9	84.4	97.3	105.8	72.9	75.8	157.3	205.9	177.3
87.5°	5.7	8.6	32.9	25.7	14.3	15.7	15.7	27.2	40.0	42.9
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°
2481.4	0°	2481.4	2481.4	2481.4	2481.4	2481.4	2481.4	2481.4	2481.4	2481.4	2481.4
2484.2	2.5°	2484.2	2482.8	2478.5	2474.2	2464.2	2458.5	2461.3	2458.5	2457.1	2458.5
2502.8	5°	2502.8	2498.5	2487.1	2472.8	2452.8	2428.4	2412.7	2389.8	2368.4	2355.5
2552.9	7.5°	2552.9	2548.6	2532.9	2492.8	2428.4	2326.9	2233.9	2152.4	2090.9	2055.2
2633.0	10°	2633.0	2625.8	2601.5	2512.8	2344.1	2122.4	1937.9	1784.9	1684.8	1637.6
2727.4	12.5°	2727.4	2718.8	2675.9	2494.2	2183.9	1837.8	1583.2	1413.0	1320.1	1278.6
2836.1	15°	2838.9	2827.5	2743.1	2405.6	1950.8	1523.1	1290.0	1162.7	1102.7	1065.5
2974.8	17.5°	2977.6	2957.6	2793.1	2272.6	1697.6	1282.9	1109.8	1014.0	961.1	925.3
3156.4	20°	3157.8	3124.9	2833.2	2113.8	1464.5	1131.3	988.3	908.2	868.1	836.7
3413.8	22.5°	3409.6	3362.4	2881.8	1942.2	1300.0	1026.9	898.2	839.5	806.6	770.9
3772.8	25°	3721.3	3665.6	2941.9	1783.4	1187.1	936.8	832.4	783.7	745.1	703.6
4243.3	27.5°	4157.5	4057.4	3013.4	1653.3	1089.8	859.5	772.3	718.0	673.6	639.3
4776.8	30°	4643.8	4479.3	3076.3	1574.6	1001.1	788.0	693.6	639.3	597.8	573.5
5255.9	32.5°	5104.3	4881.2	3117.8	1540.3	921.0	706.5	607.8	549.2	517.7	510.6
5725.0	35°	5539.1	5244.5	3113.5	1507.4	849.5	625.0	523.4	463.4	439.1	443.4
6229.9	37.5°	6039.7	5632.1	3083.5	1455.9	790.9	550.6	450.5	397.6	376.1	377.6
6843.4	40°	6621.7	6079.7	3064.9	1358.7	726.5	482.0	390.4	347.5	331.8	326.1
7489.9	42.5°	7242.4	6513.0	3067.7	1248.5	646.4	420.5	349.0	313.2	298.9	294.6
8209.2	45°	7866.0	6926.4	3072.0	1134.1	562.1	373.3	318.9	288.9	280.3	274.6
8938.6	47.5°	8452.4	7278.2	2991.9	1011.1	479.1	337.5	294.6	274.6	267.4	260.3
9670.9	50°	8998.7	7512.7	2798.9	868.1	413.3	308.9	276.0	261.7	254.6	247.4
10334.5	52.5°	9423.5	7549.9	2479.9	720.8	367.6	287.5	264.6	251.7	243.1	236.0
10870.8	55°	9612.3	7316.8	2026.6	583.5	331.8	268.9	253.1	240.3	230.3	223.1
11292.7	57.5°	9563.6	6826.3	1580.4	469.1	297.5	250.3	238.8	230.3	218.8	207.4
11634.5	60°	9324.8	6169.8	1191.3	390.4	266.0	230.3	223.1	216.0	200.2	183.1
11766.1	62.5°	8911.5	5344.6	849.5	323.2	231.7	207.4	204.5	198.8	175.9	144.4
11571.6	65°	8279.3	4342.0	572.1	268.9	198.8	181.6	183.1	173.1	143.0	107.3
10859.4	67.5°	7355.4	3175.0	366.1	220.2	165.9	151.6	153.0	147.3	121.6	91.5
9509.3	70°	6178.4	2102.4	238.8	167.3	133.0	117.3	125.9	127.3	103.0	74.4
7298.2	72.5°	4529.4	1241.4	167.3	124.4	97.3	81.5	103.0	105.8	83.0	55.8
4390.7	75°	2581.5	589.2	125.9	90.1	60.1	57.2	80.1	80.1	57.2	37.2
1900.7	77.5°	1084.1	246.0	88.7	58.6	34.3	32.9	54.3	50.1	28.6	17.2
463.4	80°	313.2	110.1	47.2	28.6	14.3	12.9	21.5	15.7	7.2	2.9
175.9	82.5°	123.0	48.6	18.6	11.4	5.7	5.7	2.9	0.0	0.0	0.0
100.1	85°	72.9	20.0	8.6	4.3	1.4	0.0	0.0	0.0	0.0	0.0
21.5	87.5°	18.6	4.3	2.9	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

180°
2481.4
2464.2
2358.4
2056.6
1633.3
1274.3
1066.9
922.5
830.9
765.1
699.4
632.1
569.2
514.9
443.4
383.3
324.7
293.2
274.6
260.3
247.4
234.5
221.7
205.9
180.2
141.6
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87.2
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52.9
34.3
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