

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: P949274

Luminaire Tested: **GALN-SB4A-827-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949274
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB4A-827-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13236 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

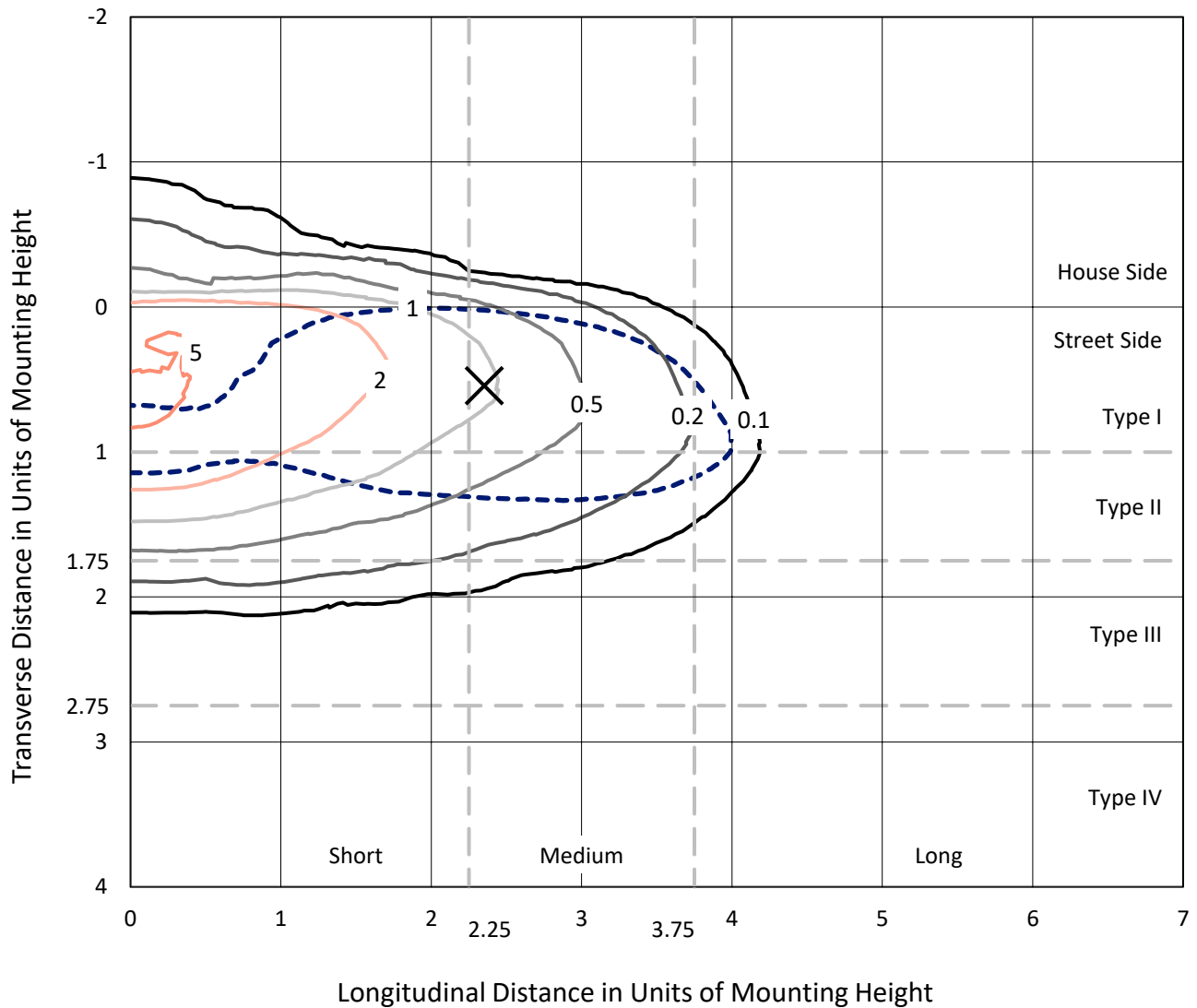
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

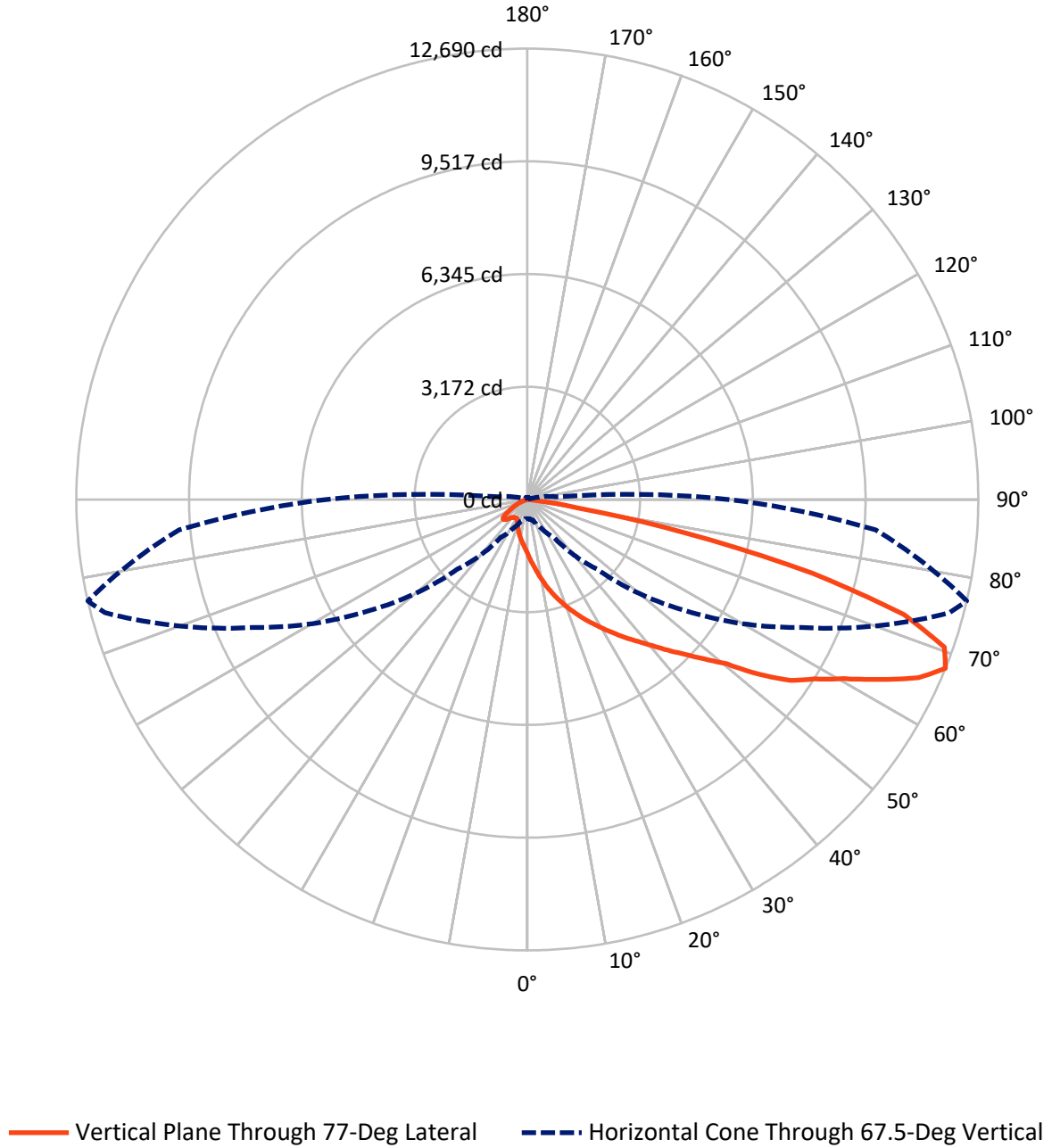
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	973.8	0.0	973.8
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	12262.2	0.0	12262.2
	% Fixture	92.6	0.0	92.6
Total	Lumens	13236.0	0.0	13236.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.8	1.2
10°-20°	545.5	4.1
20°-30°	1052.7	8.0
30°-40°	1827.6	13.8
40°-50°	2653.6	20.0
50°-60°	3047.3	23.0
60°-70°	2645.6	20.0
70°-80°	1246.1	9.4
80°-90°	61.6	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°	13236.0	100.0
0°-180°	13236.0	100.0

Coefficient of Utilization



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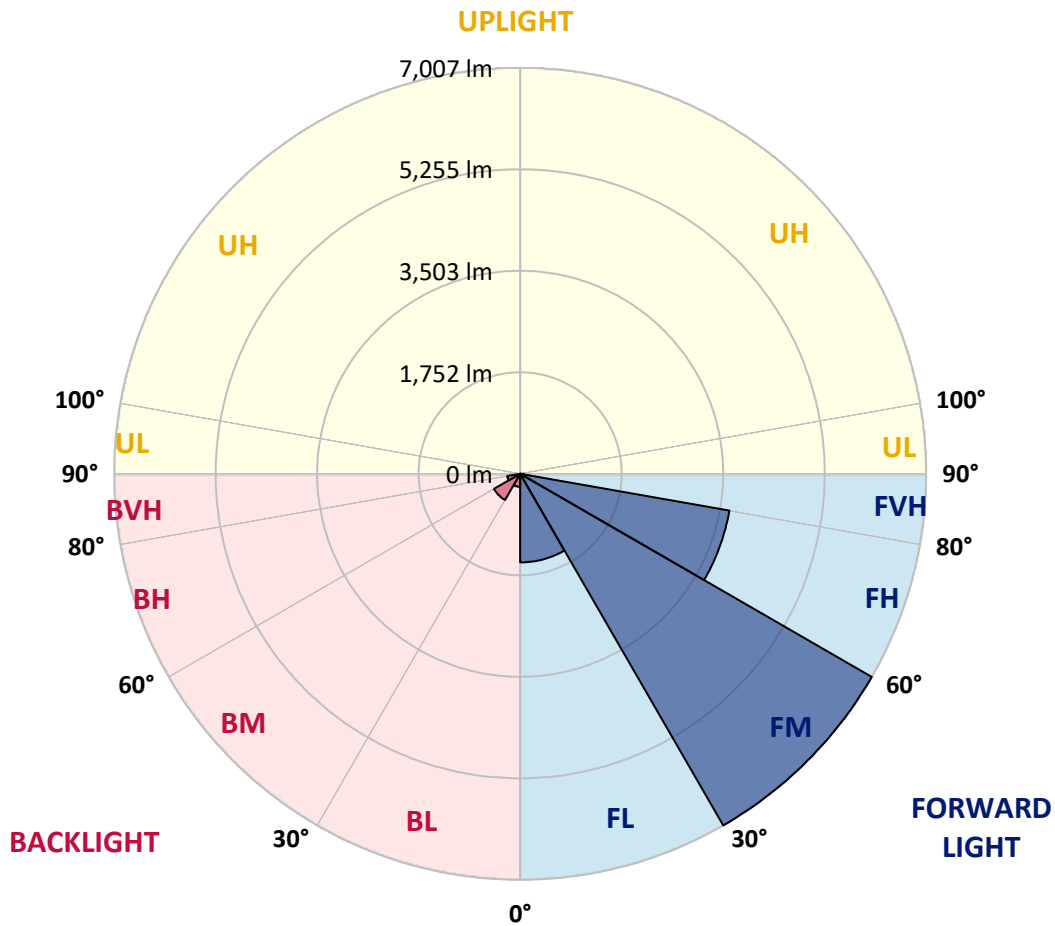
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1528.6	11.5			
FM (30°-60°)	7006.8	52.9			
FH (60°-80°)	3666.3	27.7			G2/5000
FVH (80°-90°)	60.5	0.5			G1/100
BL (0°-30°)	225.4	1.7	B1/500		
BM (30°-60°)	521.8	3.9	B1/1000		
BH (60°-80°)	225.4	1.7	B1/500		G1/500
BVH (80°-90°)	1.1	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-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1526.3	1526.3	1526.3	1526.3	1526.3	1526.3	1526.3	1526.3	1526.3	1526.3
2.5°	2113.2	2126.3	2107.4	2071.2	2017.0	1981.6	1895.3	1814.0	1723.6	1694.8
5°	2575.9	2587.4	2566.0	2526.6	2454.3	2385.2	2271.8	2101.6	1924.9	1868.2
7.5°	2918.6	2925.2	2917.0	2880.8	2811.8	2733.7	2607.1	2405.8	2143.6	2081.1
10°	3165.2	3186.6	3184.1	3170.1	3124.1	3060.8	2926.0	2696.7	2388.5	2308.0
12.5°	3328.8	3352.6	3366.6	3397.8	3395.4	3355.1	3236.7	2994.3	2632.6	2538.1
15°	3376.4	3401.9	3455.4	3527.7	3591.8	3612.3	3529.3	3286.0	2901.4	2780.6
17.5°	3349.3	3388.8	3452.9	3567.1	3707.7	3800.6	3791.5	3568.0	3145.5	3007.4
20°	3409.3	3447.1	3497.3	3593.4	3757.0	3925.5	3992.9	3837.5	3388.0	3243.3
22.5°	3741.4	3734.8	3739.7	3755.4	3853.2	4020.0	4158.9	4082.5	3628.0	3480.0
25°	4267.4	4237.8	4187.7	4103.0	4078.4	4158.9	4303.6	4299.5	3881.1	3722.5
27.5°	4870.7	4865.8	4748.2	4544.4	4429.3	4398.1	4467.1	4510.7	4131.8	3962.5
30°	5448.5	5461.7	5303.0	5076.2	4864.9	4742.5	4680.0	4711.2	4386.6	4221.4
32.5°	5951.5	5965.5	5792.9	5527.4	5266.0	5118.1	4986.6	4909.3	4664.4	4484.4
35°	6376.5	6390.4	6192.3	5898.9	5620.3	5486.3	5337.5	5126.3	4943.8	4776.2
37.5°	6756.2	6752.1	6486.6	6190.7	5917.0	5811.0	5732.9	5393.4	5231.5	5069.6
40°	6980.6	6997.8	6771.0	6444.7	6179.2	6101.9	6097.0	5724.7	5563.6	5406.6
42.5°	7046.3	7076.7	6912.3	6644.4	6403.6	6319.7	6448.8	6083.0	5949.9	5797.0
45°	6928.0	6957.6	6882.8	6697.0	6556.5	6502.2	6751.3	6454.5	6362.5	6211.2
47.5°	6582.8	6619.7	6637.8	6598.4	6596.7	6651.8	7022.5	6845.8	6852.3	6697.8
50°	5914.5	5977.0	6143.0	6282.8	6498.9	6770.2	7286.3	7269.9	7404.7	7271.5
52.5°	4699.7	4788.5	5360.6	5742.8	6228.5	6748.0	7576.5	7950.4	8373.7	8178.9
55°	3776.7	3776.7	4241.9	4957.0	5700.8	6601.7	7703.0	8392.6	9033.7	8987.7
57.5°	3078.9	3115.9	3412.6	4044.7	4937.3	6253.2	7781.1	8670.4	9565.5	9531.8
60°	1900.3	1980.0	2540.6	3164.4	4068.5	5632.6	7731.8	8951.5	10210.7	10237.8
62.5°	1070.1	1099.7	1349.6	2276.7	3163.6	4798.4	7354.5	9108.5	11035.9	11151.0
65°	738.9	753.7	849.9	1417.0	2192.9	3820.3	6617.3	9010.7	11862.8	12095.4
67.5°	536.7	544.1	604.1	865.5	1301.1	2769.9	5461.7	8517.6	12300.9	12689.6
70°	412.6	417.5	461.1	568.8	768.5	1709.6	3966.6	7537.0	11983.6	12448.0
72.5°	335.3	340.3	374.0	420.8	509.6	1011.0	2404.1	6120.8	10583.0	11084.4
75°	282.7	289.3	319.7	350.1	399.5	649.3	1127.7	4262.5	7958.7	8287.4
77.5°	157.0	144.7	259.7	290.1	337.0	411.0	527.7	2508.5	4457.3	4548.5
80°	97.8	101.1	206.3	233.4	258.9	207.1	241.6	965.8	1545.2	1467.9
82.5°	5.8	13.2	158.6	168.5	177.5	88.8	91.2	327.9	372.3	341.9
85°	0.0	0.0	72.3	58.4	61.6	25.5	26.3	76.4	50.1	54.2
87.5°	0.0	0.0	0.0	1.6	0.0	2.5	4.9	6.6	2.5	3.3
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°
1526.3	0°	1526.3	1526.3	1526.3	1526.3	1526.3	1526.3	1526.3	1526.3	1526.3	1526.3
1604.4	2.5°	1546.9	1489.3	1372.6	1258.4	1165.5	1079.2	1017.5	959.2	929.6	927.9
1707.9	5°	1593.7	1472.9	1239.5	1033.2	867.1	734.0	647.7	586.0	554.8	544.1
1835.3	7.5°	1659.5	1477.8	1122.7	835.9	640.3	526.0	476.7	457.0	450.4	443.0
1979.2	10°	1742.5	1489.3	1018.4	673.2	504.7	447.1	427.4	419.2	414.2	409.3
2141.1	12.5°	1835.3	1500.0	914.8	558.9	443.8	414.2	400.3	390.4	383.8	378.1
2307.1	15°	1925.8	1506.6	807.1	479.2	412.6	388.8	374.0	363.3	354.2	347.7
2469.9	17.5°	2015.3	1515.6	706.0	431.5	387.1	363.3	348.5	335.3	327.9	320.5
2640.8	20°	2114.8	1514.0	610.7	397.8	361.6	337.8	322.2	309.9	302.5	294.2
2821.7	22.5°	2206.9	1505.8	526.9	369.0	335.3	312.3	295.1	282.7	275.3	268.8
3006.6	25°	2312.9	1499.2	457.0	342.7	310.7	287.7	268.8	257.3	249.0	243.3
3192.3	27.5°	2414.8	1489.3	406.0	318.9	286.9	264.7	246.6	233.4	226.0	221.9
3383.8	30°	2515.1	1486.9	387.1	295.9	265.5	243.3	225.2	212.9	207.1	205.5
3594.3	32.5°	2635.9	1493.4	395.3	287.7	245.8	223.6	206.3	197.3	191.5	191.5
3828.5	35°	2764.9	1491.8	407.7	295.1	232.6	203.8	190.7	184.9	179.2	179.2
4088.2	37.5°	2926.9	1494.3	417.5	307.4	227.7	187.4	180.0	172.6	169.3	169.3
4372.6	40°	3168.5	1575.6	412.6	318.1	226.0	175.9	161.1	158.6	156.2	156.2
4694.0	42.5°	3464.4	1752.3	419.2	318.9	225.2	167.7	147.9	152.9	147.1	146.3
5056.5	45°	3788.2	1945.5	461.1	301.6	224.4	163.6	141.4	147.1	138.1	138.1
5476.5	47.5°	4109.6	2137.0	503.8	277.0	221.9	162.7	135.6	132.3	129.9	130.7
6023.9	50°	4552.6	2293.2	520.3	243.3	216.2	161.1	124.9	125.8	124.1	125.8
6795.6	52.5°	5035.1	2326.0	500.5	205.5	199.7	156.2	117.5	120.8	120.0	121.6
7338.9	55°	5335.9	2290.7	413.4	171.0	174.2	136.4	110.1	116.7	116.7	116.7
7869.9	57.5°	5646.6	2140.3	293.4	138.9	144.7	111.8	103.6	112.6	111.8	111.0
8509.3	60°	5870.2	1897.0	193.2	114.2	115.1	92.1	96.2	106.0	105.2	101.1
9168.5	62.5°	6037.0	1628.2	124.1	97.0	87.9	83.0	87.9	96.2	92.9	83.8
9727.4	65°	6018.1	1255.9	95.3	83.0	72.3	72.3	76.4	83.8	74.0	59.2
9834.3	67.5°	5667.1	849.9	78.9	69.9	60.8	60.0	63.3	69.9	63.3	50.1
9286.9	70°	5040.0	555.6	63.3	54.2	48.5	44.4	51.0	60.0	53.4	40.3
7906.0	72.5°	4090.7	338.6	47.7	39.5	35.3	28.8	40.3	49.3	42.7	29.6
5497.8	75°	2646.6	172.6	32.9	25.5	18.9	17.3	29.6	37.0	29.6	18.1
2439.5	77.5°	1012.6	72.3	18.1	11.5	9.9	8.2	16.4	22.2	12.3	4.1
472.6	80°	194.8	30.4	9.0	5.8	4.9	3.3	2.5	1.6	0.0	0.0
83.8	82.5°	33.7	9.9	3.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0
16.4	85°	11.5	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.8	87.5°	4.1	0.0	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

180°
1526.3
926.3
542.5
441.4
407.7
376.4
346.9
319.7
293.4
267.9
242.5
221.9
204.7
191.5
179.2
169.3
156.2
145.5
138.1
130.7
125.8
121.6
116.7
111.0
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