

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: P950093

Luminaire Tested: **GALN-SB4C-927-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950093
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-SB4C-927-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 615mA 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: 15469 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

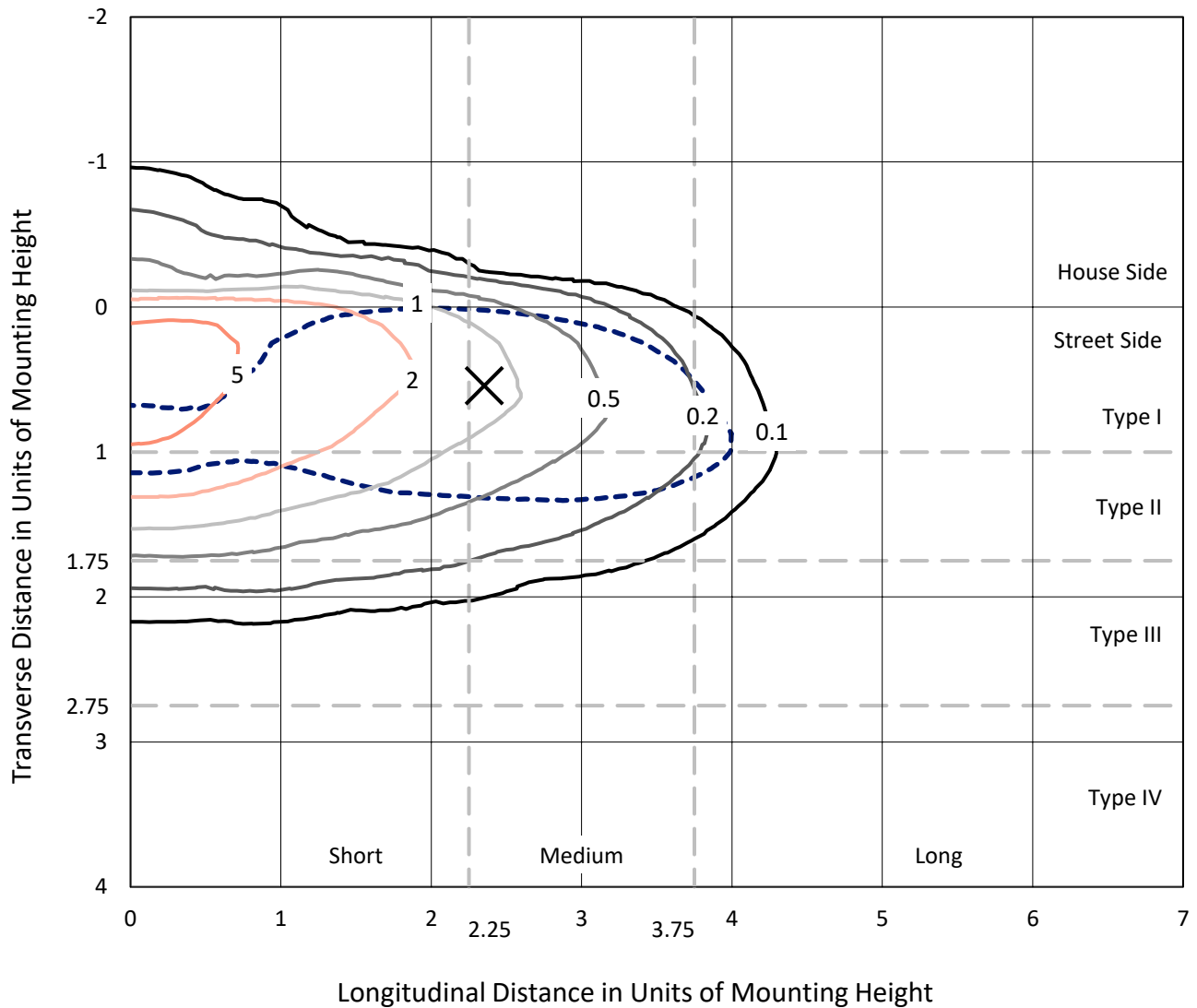
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

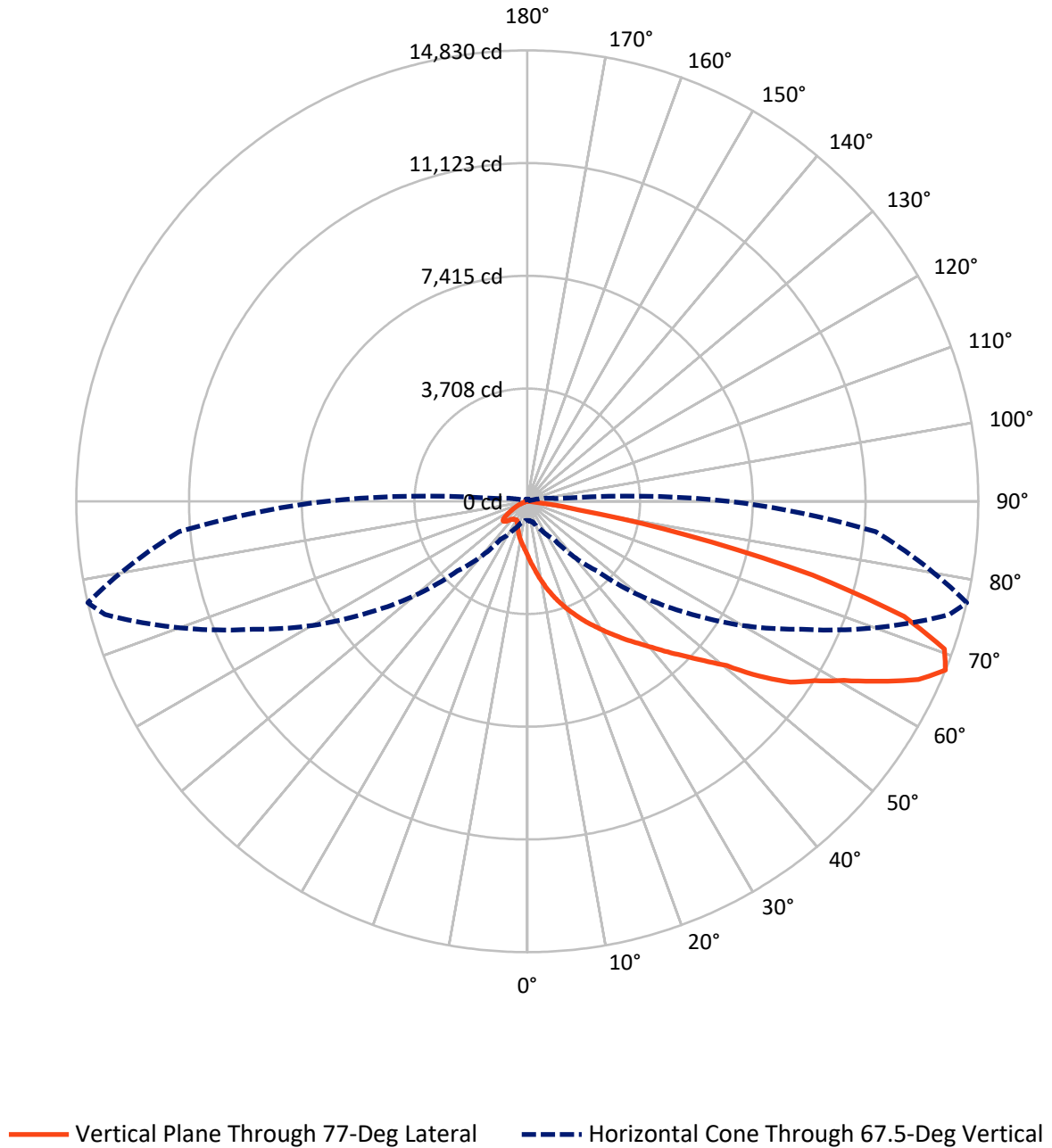
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	1138.1	0.0	1138.1
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	14330.9	0.0	14330.9
	% Fixture	92.6	0.0	92.6
Total	Lumens	15469.0	0.0	15469.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.1	1.2
10°-20°	637.6	4.1
20°-30°	1230.3	8.0
30°-40°	2135.9	13.8
40°-50°	3101.3	20.0
50°-60°	3561.4	23.0
60°-70°	3092.0	20.0
70°-80°	1456.4	9.4
80°-90°	72.0	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°	15469.0	100.0
0°-180°	15469.0	100.0

Coefficient of Utilization

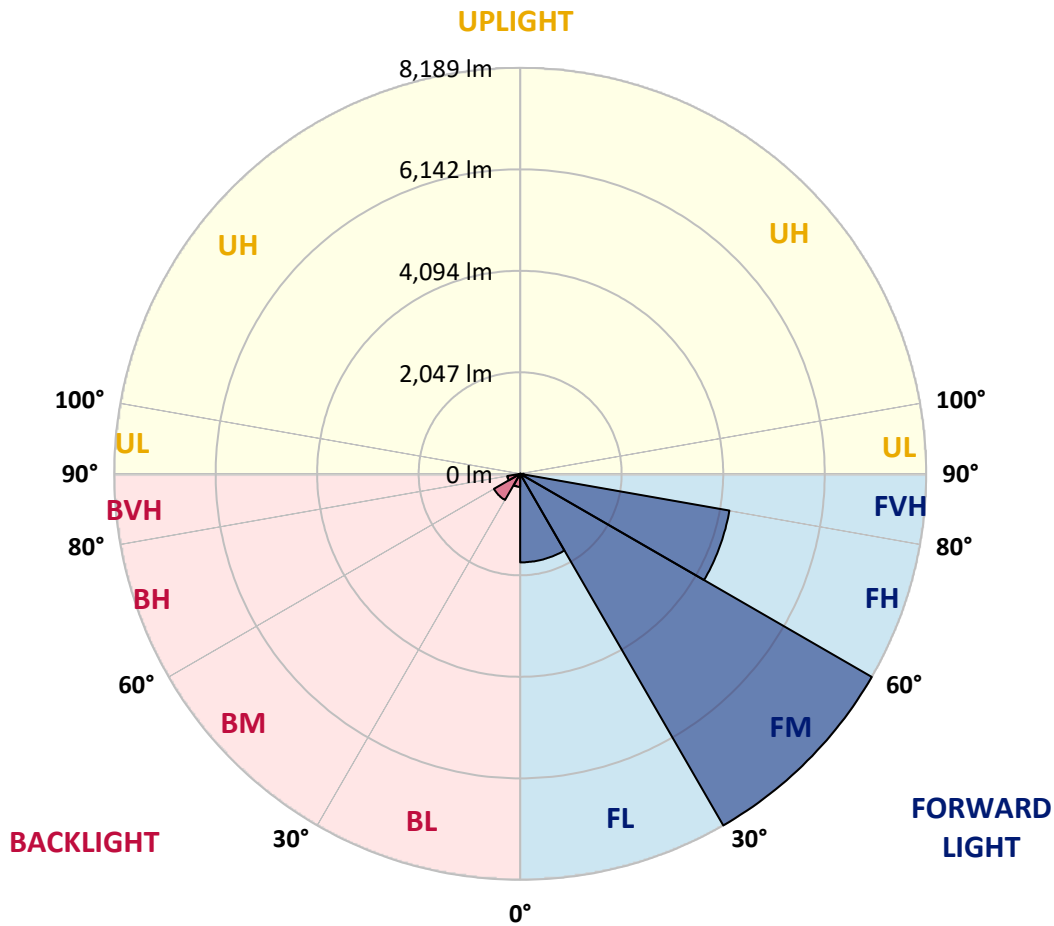


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1786.5	11.5			
FM (30°-60°)	8188.9	52.9			
FH (60°-80°)	4284.9	27.7			G2/5000
FVH (80°-90°)	70.7	0.5			G1/100
BL (0°-30°)	263.5	1.7	B1/500		
BM (30°-60°)	609.8	3.9	B1/1000		
BH (60°-80°)	263.5	1.7	B1/500		G1/500
BVH (80°-90°)	1.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1783.8	1783.8	1783.8	1783.8	1783.8	1783.8	1783.8	1783.8	1783.8	1783.8
2.5°	2469.7	2485.0	2462.9	2420.7	2357.3	2316.0	2215.1	2120.0	2014.3	1980.7
5°	3010.5	3023.9	2998.9	2952.8	2868.3	2787.6	2655.1	2456.2	2249.7	2183.4
7.5°	3411.0	3418.7	3409.1	3366.8	3286.2	3194.9	3047.0	2811.6	2505.2	2432.2
10°	3699.2	3724.2	3721.3	3705.0	3651.2	3577.2	3419.7	3151.7	2791.5	2697.3
12.5°	3890.4	3918.2	3934.5	3971.1	3968.2	3921.1	3782.8	3499.4	3076.7	2966.3
15°	3946.1	3975.9	4038.3	4122.8	4197.7	4221.8	4124.7	3840.4	3390.9	3249.7
17.5°	3914.4	3960.5	4035.4	4168.9	4333.2	4441.7	4431.2	4169.9	3676.2	3514.8
20°	3984.5	4028.7	4087.3	4199.7	4390.8	4587.7	4666.5	4485.0	3959.5	3790.5
22.5°	4372.6	4364.9	4370.7	4388.9	4503.2	4698.2	4860.6	4771.2	4240.0	4067.1
25°	4987.3	4952.8	4894.2	4795.2	4766.4	4860.6	5029.6	5024.8	4535.9	4350.5
27.5°	5692.4	5686.7	5549.3	5311.1	5176.6	5140.1	5220.8	5271.7	4828.9	4631.0
30°	6367.7	6383.1	6197.7	5932.6	5685.7	5542.6	5469.6	5506.1	5126.6	4933.6
32.5°	6955.6	6971.9	6770.2	6459.9	6154.5	5981.6	5827.9	5737.6	5451.3	5240.9
35°	7452.2	7468.5	7237.0	6894.1	6568.5	6411.9	6238.0	5991.2	5777.9	5581.9
37.5°	7896.0	7891.2	7580.9	7235.1	6915.2	6791.3	6700.1	6303.3	6114.1	5924.9
40°	8158.2	8178.4	7913.3	7531.9	7221.7	7131.4	7125.6	6690.5	6502.2	6318.7
42.5°	8235.1	8270.6	8078.5	7765.4	7483.9	7385.9	7536.7	7109.3	6953.7	6775.0
45°	8096.8	8131.3	8043.9	7826.8	7662.6	7599.2	7890.2	7543.5	7435.9	7259.1
47.5°	7693.3	7736.5	7757.7	7711.6	7709.6	7774.0	8207.2	8000.7	8008.4	7827.8
50°	6912.4	6985.4	7179.4	7342.7	7595.3	7912.3	8515.6	8496.4	8653.9	8498.3
52.5°	5492.6	5596.4	6264.9	6711.6	7279.3	7886.4	8854.7	9291.7	9786.4	9558.8
55°	4413.9	4413.9	4957.6	5793.3	6662.6	7715.4	9002.6	9808.5	10557.8	10504.0
57.5°	3598.3	3641.6	3988.3	4727.0	5770.2	7308.1	9093.8	10133.2	11179.3	11139.9
60°	2220.9	2314.0	2969.2	3698.2	4754.9	6582.9	9036.2	10461.7	11933.3	11965.0
62.5°	1250.7	1285.3	1577.3	2660.8	3697.3	5607.9	8595.3	10645.2	12897.8	13032.2
65°	863.6	880.9	993.2	1656.0	2562.8	4464.8	7733.7	10530.9	13864.1	14135.9
67.5°	627.3	635.9	706.0	1011.5	1520.6	3237.2	6383.1	9954.5	14376.1	14830.4
70°	482.2	488.0	538.9	664.7	898.1	1998.0	4635.8	8808.5	14005.3	14548.0
72.5°	391.9	397.7	437.1	491.8	595.6	1181.5	2809.7	7153.5	12368.5	12954.4
75°	330.4	338.1	373.7	409.2	466.8	758.9	1317.9	4981.6	9301.3	9685.6
77.5°	183.5	169.1	303.5	339.1	393.8	480.3	616.7	2931.7	5209.2	5315.9
80°	114.3	118.2	241.1	272.8	302.6	242.1	282.4	1128.7	1805.9	1715.6
82.5°	6.7	15.4	185.4	196.9	207.5	103.7	106.6	383.3	435.1	399.6
85°	0.0	0.0	84.5	68.2	72.0	29.8	30.7	89.3	58.6	63.4
87.5°	0.0	0.0	0.0	1.9	0.0	2.9	5.8	7.7	2.9	3.8
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°
1783.8	0°	1783.8	1783.8	1783.8	1783.8	1783.8	1783.8	1783.8	1783.8	1783.8	1783.8
1875.1	2.5°	1807.8	1740.6	1604.2	1470.7	1362.1	1261.2	1189.2	1121.0	1086.4	1084.5
1996.1	5°	1862.6	1721.4	1448.6	1207.5	1013.4	857.8	756.9	684.9	648.4	635.9
2145.0	7.5°	1939.4	1727.1	1312.2	976.9	748.3	614.8	557.1	534.1	526.4	517.8
2313.1	10°	2036.4	1740.6	1190.2	786.7	589.8	522.6	499.5	489.9	484.1	478.4
2502.3	12.5°	2145.0	1753.1	1069.1	653.2	518.7	484.1	467.8	456.3	448.6	441.9
2696.4	15°	2250.6	1760.7	943.3	560.0	482.2	454.4	437.1	424.6	414.0	406.3
2886.6	17.5°	2355.4	1771.3	825.1	504.3	452.4	424.6	407.3	391.9	383.3	374.6
3086.4	20°	2471.6	1769.4	713.7	464.9	422.7	394.8	376.5	362.1	353.5	343.9
3297.7	22.5°	2579.2	1759.8	615.7	431.3	391.9	365.0	344.8	330.4	321.8	314.1
3513.8	25°	2703.1	1752.1	534.1	400.6	363.1	336.2	314.1	300.7	291.1	284.3
3730.9	27.5°	2822.2	1740.6	474.5	372.7	335.2	309.3	288.2	272.8	264.2	259.4
3954.7	30°	2939.4	1737.7	452.4	345.8	310.3	284.3	263.2	248.8	242.1	240.1
4200.6	32.5°	3080.6	1745.4	462.0	336.2	287.2	261.3	241.1	230.5	223.8	223.8
4474.4	35°	3231.4	1743.5	476.4	344.8	271.8	238.2	222.9	216.1	209.4	209.4
4777.9	37.5°	3420.6	1746.3	488.0	359.3	266.1	219.0	210.4	201.7	197.9	197.9
5110.3	40°	3703.0	1841.4	482.2	371.7	264.2	205.6	188.3	185.4	182.5	182.5
5485.9	42.5°	4048.9	2048.0	489.9	372.7	263.2	196.0	172.9	178.7	171.9	171.0
5909.5	45°	4427.3	2273.7	538.9	352.5	262.2	191.2	165.2	171.9	161.4	161.4
6400.4	47.5°	4802.9	2497.5	588.8	323.7	259.4	190.2	158.5	154.7	151.8	152.7
7040.1	50°	5320.7	2680.0	608.0	284.3	252.6	188.3	146.0	147.0	145.0	147.0
7942.1	52.5°	5884.5	2718.5	585.0	240.1	233.4	182.5	137.4	141.2	140.2	142.2
8577.0	55°	6236.1	2677.1	483.2	199.8	203.6	159.5	128.7	136.4	136.4	136.4
9197.6	57.5°	6599.2	2501.4	342.9	162.3	169.1	130.6	121.0	131.6	130.6	129.7
9944.9	60°	6860.5	2217.0	225.7	133.5	134.5	107.6	112.4	123.9	123.0	118.2
10715.3	62.5°	7055.5	1902.9	145.0	113.3	102.8	97.0	102.8	112.4	108.5	98.0
11368.5	65°	7033.4	1467.8	111.4	97.0	84.5	84.5	89.3	98.0	86.5	69.2
11493.4	67.5°	6623.2	993.2	92.2	81.6	71.1	70.1	74.0	81.6	74.0	58.6
10853.6	70°	5890.3	649.4	74.0	63.4	56.7	51.9	59.6	70.1	62.4	47.1
9239.9	72.5°	4780.8	395.8	55.7	46.1	41.3	33.6	47.1	57.6	50.0	34.6
6425.3	75°	3093.1	201.7	38.4	29.8	22.1	20.2	34.6	43.2	34.6	21.1
2851.0	77.5°	1183.4	84.5	21.1	13.4	11.5	9.6	19.2	25.9	14.4	4.8
552.3	80°	227.7	35.5	10.6	6.7	5.8	3.8	2.9	1.9	0.0	0.0
98.0	82.5°	39.4	11.5	3.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0
19.2	85°	13.4	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.7	87.5°	4.8	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

<u>180°</u>
1783.8
1082.6
634.0
515.8
476.4
439.9
405.4
373.7
342.9
313.2
283.4
259.4
239.2
223.8
209.4
197.9
182.5
170.0
161.4
152.7
147.0
142.2
136.4
129.7
118.2
96.1
67.2
56.7
45.1
32.7
18.3
3.8
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