

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: P955811

Luminaire Tested: **GALN-SB8C-927-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955811  
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-SB8C-927-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

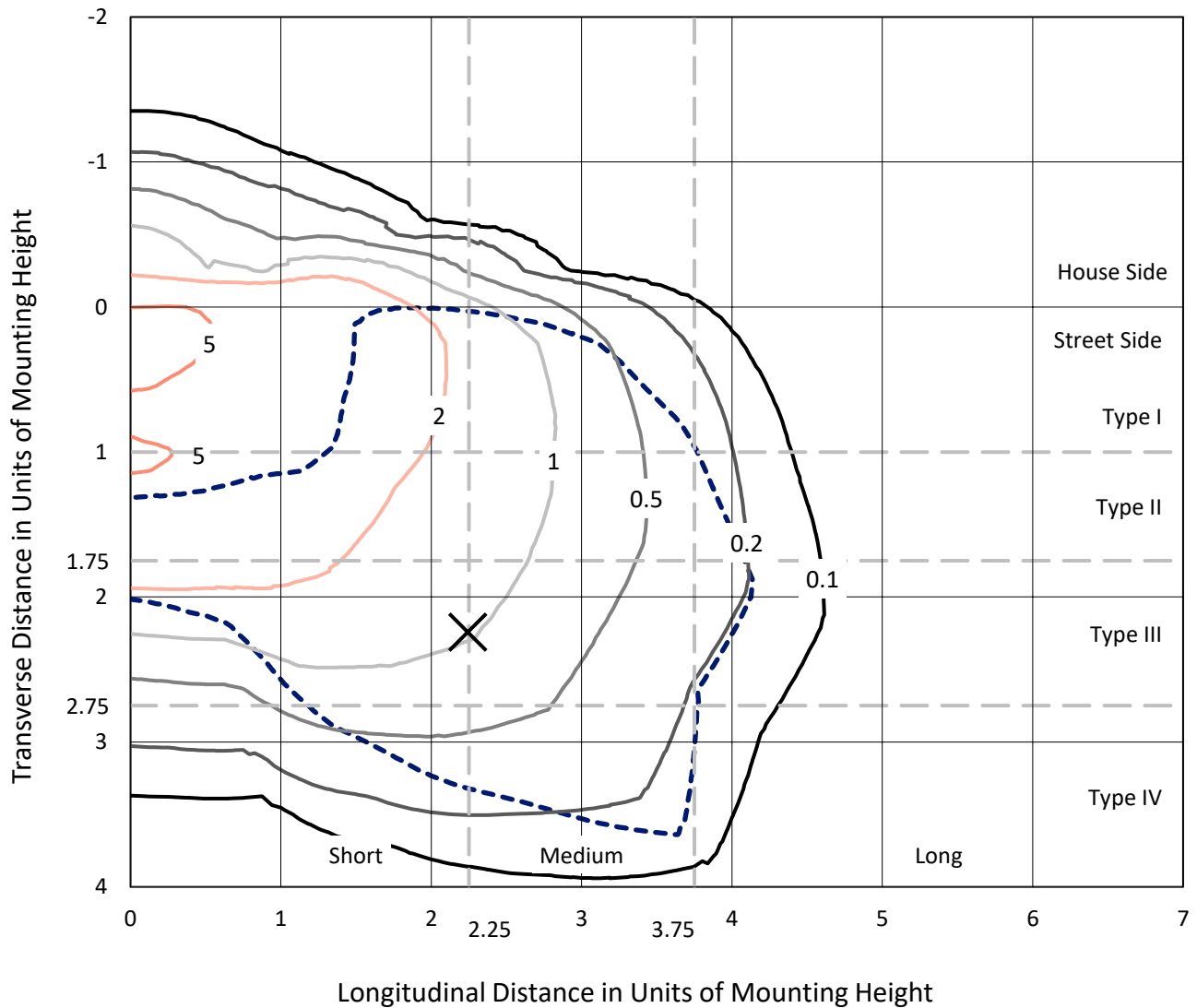
Lumens per Lamp: N/A  
Luminaire Lumens: 28394 lumens  
Efficiency: N/A  
Efficacy: 71.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5  
  
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

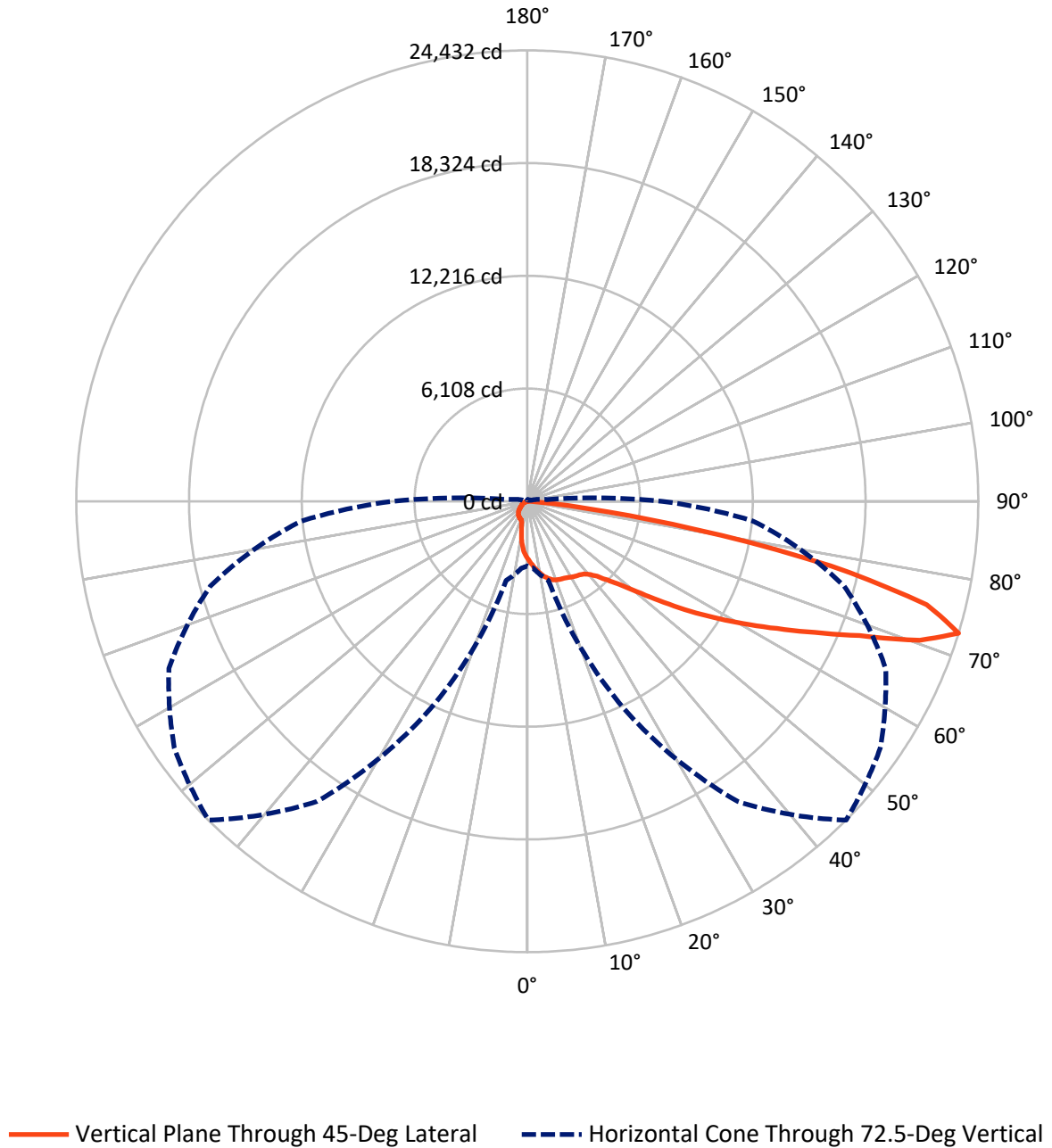
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2983.4	0.0	2983.4
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	25410.6	0.0	25410.6
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	28394.0	0.0	28394.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	293.1	1.0
10°-20°	856.6	3.0
20°-30°	1406.6	5.0
30°-40°	1994.9	7.0
40°-50°	3297.3	11.6
50°-60°	5923.3	20.9
60°-70°	8224.8	29.0
70°-80°	5966.0	21.0
80°-90°	431.3	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°	28394.0	100.0
0°-180°	28394.0	100.0

**Coefficient of Utilization**



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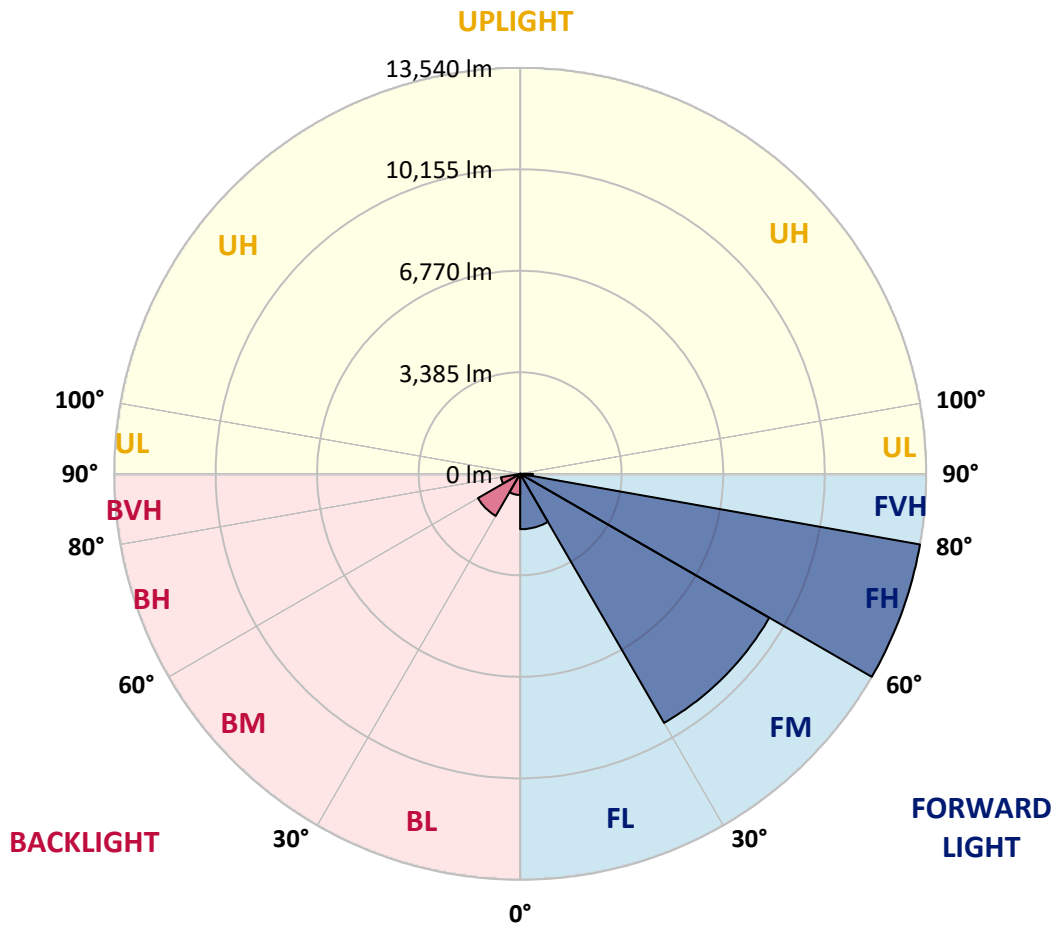
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1849.6	6.5			
FM (30°-60°)	9593.0	33.8			
FH (60°-80°)	13540.3	47.7			G5
FVH (80°-90°)	427.7	1.5			G3/500
BL (0°-30°)	706.7	2.5	B2/1000		
BM (30°-60°)	1622.6	5.7	B2/2500		
BH (60°-80°)	650.6	2.3	B2/1000		G2/1000
BVH (80°-90°)	3.6	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-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3110.6	3110.6	3110.6	3110.6	3110.6	3110.6	3110.6	3110.6	3110.6	3110.6
2.5°	3397.5	3403.3	3399.4	3376.1	3337.4	3316.1	3304.4	3265.7	3240.5	3195.9
5°	3709.5	3732.7	3719.2	3672.7	3599.0	3546.7	3531.2	3451.7	3380.0	3296.7
7.5°	4040.9	4052.5	4027.3	3967.3	3868.4	3779.3	3765.7	3655.2	3540.9	3413.0
10°	4327.7	4341.3	4302.5	4215.3	4102.9	3992.5	3973.1	3851.0	3715.3	3558.3
12.5°	4568.1	4581.6	4531.2	4426.6	4302.5	4188.2	4168.8	4040.9	3891.7	3717.2
15°	4750.2	4775.4	4707.6	4595.2	4461.5	4347.1	4337.4	4211.5	4066.1	3872.3
17.5°	4856.8	4882.0	4818.1	4682.4	4568.1	4471.2	4459.5	4354.9	4219.2	4033.2
20°	4874.3	4897.5	4829.7	4711.5	4616.5	4539.0	4533.2	4457.6	4358.7	4180.4
22.5°	4822.0	4851.0	4789.0	4694.0	4628.1	4587.4	4579.7	4537.1	4480.8	4329.7
25°	4767.7	4790.9	4744.4	4661.1	4626.2	4622.3	4628.1	4620.4	4608.8	4480.8
27.5°	4763.8	4789.0	4736.7	4657.2	4637.8	4678.5	4684.3	4721.2	4730.9	4618.5
30°	4796.8	4814.2	4763.8	4680.5	4670.8	4763.8	4765.7	4831.6	4847.1	4734.7
32.5°	4868.5	4887.8	4837.5	4715.4	4701.8	4831.6	4837.5	4924.7	4949.9	4858.8
35°	5037.1	5060.3	5002.2	4812.3	4763.8	4895.6	4913.0	5015.8	5066.1	4990.6
37.5°	5457.6	5389.8	5310.3	5008.0	4905.3	4996.4	5025.4	5145.6	5234.8	5147.5
40°	6502.3	6289.1	6041.0	5341.4	5153.4	5211.5	5234.8	5354.9	5477.0	5391.7
42.5°	8070.2	7818.2	7419.0	6108.8	5527.4	5556.5	5573.9	5678.6	5851.1	5783.2
45°	9467.5	9376.4	8969.4	7419.0	6227.1	6083.6	6105.0	6159.2	6413.1	6387.9
47.5°	10541.2	10488.9	10174.9	8922.9	7409.3	6729.0	6789.1	6814.3	7180.6	7269.7
50°	11366.9	11347.5	11066.5	10260.2	8953.9	7680.6	7701.9	7647.7	8196.2	8417.1
52.5°	12146.0	12211.9	12004.5	11502.5	10603.3	8926.8	8922.9	8667.1	9407.5	9740.8
55°	12849.5	12872.7	12894.1	12770.0	12262.3	10345.5	10308.7	9890.0	10812.6	11157.5
57.5°	13510.4	13520.1	13710.0	13963.9	13989.1	11868.8	11801.0	11299.0	12347.5	12593.7
60°	13954.2	13998.8	14400.0	15105.4	15413.6	13440.6	13403.8	12892.1	13909.6	14024.0
62.5°	13314.6	13586.0	14597.6	15996.9	16758.6	15182.9	15165.5	14684.9	15553.1	15460.1
65°	10777.7	11237.0	13016.2	16599.7	18078.4	17128.8	17154.0	16642.3	17241.2	16938.8
67.5°	7539.1	8023.7	10128.4	16648.1	19553.3	19413.8	19559.1	18756.8	19033.9	18355.6
70°	5213.4	5463.5	6833.7	15605.4	20702.6	22561.2	22557.3	21353.8	20816.9	19001.0
72.5°	3506.0	3635.8	4438.2	12380.5	19857.6	24431.5	24319.1	23338.4	21417.8	17770.3
75°	1478.8	1573.7	2054.4	6957.7	15710.1	22351.9	22047.6	20625.1	19030.0	13993.0
77.5°	469.0	509.7	810.1	2490.4	8653.5	16801.2	16479.5	12880.5	12754.5	7019.7
80°	222.9	259.7	455.4	1000.1	3405.2	9138.1	9093.5	5843.3	5486.7	1895.4
82.5°	96.9	114.3	252.0	534.9	1523.3	3259.9	3325.8	1988.5	1645.4	719.0
85°	31.0	40.7	116.3	246.1	643.4	810.1	800.4	472.9	662.8	391.5
87.5°	0.0	0.0	38.8	56.2	65.9	46.5	52.3	40.7	184.1	108.5
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°
3110.6	0°	3110.6	3110.6	3110.6	3110.6	3110.6	3110.6	3110.6	3110.6	3110.6	3110.6
3149.4	2.5°	3126.1	3095.1	3040.9	2990.5	2945.9	2901.3	2874.2	2835.4	2831.5	2831.5
3199.8	5°	3147.4	3097.1	3000.2	2897.4	2779.2	2666.8	2554.4	2445.9	2411.0	2385.8
3281.2	7.5°	3209.5	3130.0	2976.9	2781.1	2556.3	2310.2	2137.7	1951.6	1879.9	1841.2
3389.7	10°	3298.6	3190.1	2957.5	2614.5	2250.1	1914.8	1668.7	1467.1	1389.6	1356.7
3507.9	12.5°	3397.5	3263.7	2922.6	2407.1	1914.8	1513.6	1273.3	1180.3	1168.7	1168.7
3649.4	15°	3515.7	3352.9	2862.5	2162.9	1564.0	1197.7	1112.5	1116.3	1128.0	1135.7
3787.0	17.5°	3637.8	3447.8	2767.6	1889.6	1253.9	1077.6	1079.5	1085.3	1095.0	1102.8
3936.2	20°	3769.6	3542.8	2641.6	1598.9	1075.6	1042.7	1048.5	1054.3	1062.1	1065.9
4075.8	22.5°	3911.1	3632.0	2492.4	1314.0	1015.6	1013.6	1015.6	1021.4	1031.1	1031.1
4238.6	25°	4062.2	3730.8	2321.8	1106.6	984.5	984.5	988.4	992.3	1000.1	1000.1
4395.6	27.5°	4217.3	3821.9	2141.6	998.1	957.4	955.5	955.5	961.3	965.2	967.1
4550.6	30°	4387.8	3928.5	1961.3	974.9	936.1	926.4	920.6	924.5	928.3	930.3
4713.4	32.5°	4562.2	4031.2	1800.5	984.5	914.8	897.3	878.0	874.1	874.1	881.8
4882.0	35°	4756.1	4143.6	1676.4	1017.5	903.1	854.7	823.7	806.2	808.2	819.8
5083.6	37.5°	4988.6	4279.3	1585.4	1046.6	895.4	806.2	755.9	734.5	721.0	734.5
5360.7	40°	5292.9	4478.9	1519.5	1069.8	885.7	750.0	682.2	647.3	622.1	629.9
5791.0	42.5°	5740.6	4792.9	1494.3	1071.8	864.4	684.1	606.6	560.1	523.3	525.2
6438.3	45°	6368.5	5289.0	1624.1	1046.6	817.9	612.4	527.2	465.1	441.9	436.1
7405.4	47.5°	7229.0	6011.9	1924.5	994.2	750.0	542.7	449.6	397.3	379.9	370.2
8674.9	50°	8382.2	6940.3	2257.9	936.1	682.2	476.8	385.7	352.7	341.1	331.4
10180.7	52.5°	9719.5	7882.2	2531.1	878.0	614.4	418.6	345.0	325.6	315.9	308.2
11634.3	55°	10946.3	8531.4	2515.6	815.9	548.5	372.1	315.9	304.3	292.7	284.9
12886.3	57.5°	11709.9	8622.5	2073.7	748.1	472.9	335.3	288.8	281.0	267.5	257.8
13969.7	60°	12060.7	8103.1	1453.6	658.9	397.3	300.4	259.7	255.8	238.4	224.8
14994.9	62.5°	12124.6	7138.0	969.0	548.5	331.4	267.5	230.6	224.8	201.6	178.3
15828.3	65°	11864.9	5758.0	670.6	428.3	283.0	232.6	197.7	186.1	160.9	137.6
16026.0	67.5°	11043.2	4042.8	467.1	308.2	240.3	184.1	157.0	153.1	133.7	114.3
15018.2	70°	9537.3	2304.4	312.0	230.6	189.9	126.0	124.0	127.9	108.5	93.0
12270.0	72.5°	7312.4	1054.3	193.8	168.6	129.9	85.3	98.8	100.8	83.3	69.8
7655.4	75°	4304.5	451.6	122.1	108.5	65.9	56.2	71.7	73.6	56.2	44.6
2798.6	77.5°	1465.2	170.6	77.5	64.0	32.9	31.0	46.5	46.5	31.0	17.4
562.0	80°	333.4	64.0	38.8	25.2	15.5	13.6	15.5	13.6	7.8	1.9
172.5	82.5°	95.0	25.2	15.5	9.7	5.8	5.8	1.9	0.0	0.0	0.0
60.1	85°	27.1	11.6	3.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0
21.3	87.5°	11.6	1.9	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>
3110.6
2841.2
2397.4
1847.0
1356.7
1168.7
1135.7
1102.8
1067.9
1034.9
1002.0
969.0
934.2
887.6
825.6
730.7
626.0
517.5
428.3
364.4
329.5
306.2
281.0
255.8
220.9
166.7
129.9
108.5
85.3
62.0
38.8
13.6
0.0
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