

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: P943422

Luminaire Tested: **GALN-SB7D-927-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943422  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7D-927-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

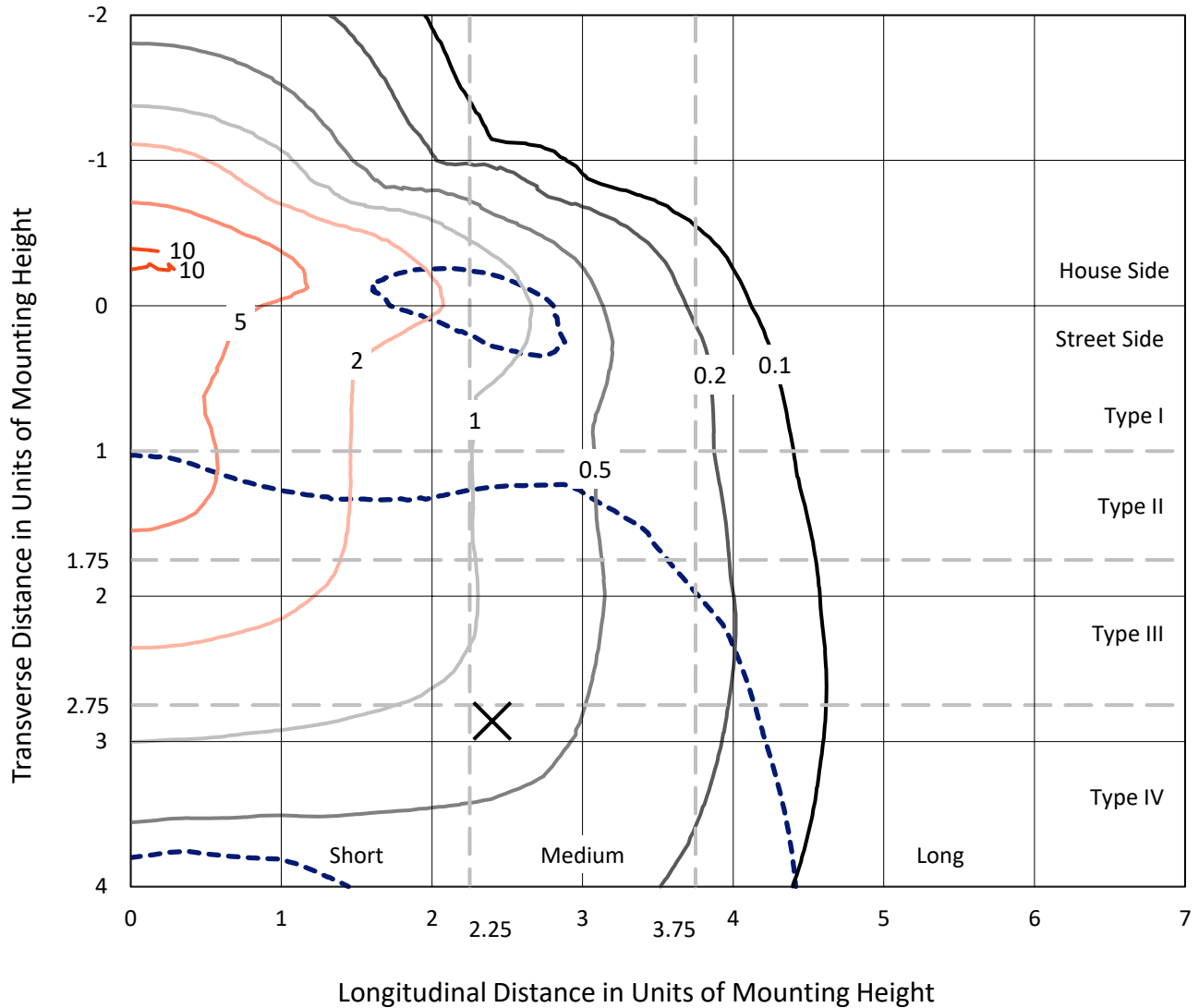
Lumens per Lamp: N/A  
Luminaire Lumens: 43666 lumens  
Efficiency: N/A  
Efficacy: 85.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 512.8  
Input Voltage (V): NR  
Input Current (Ain): 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

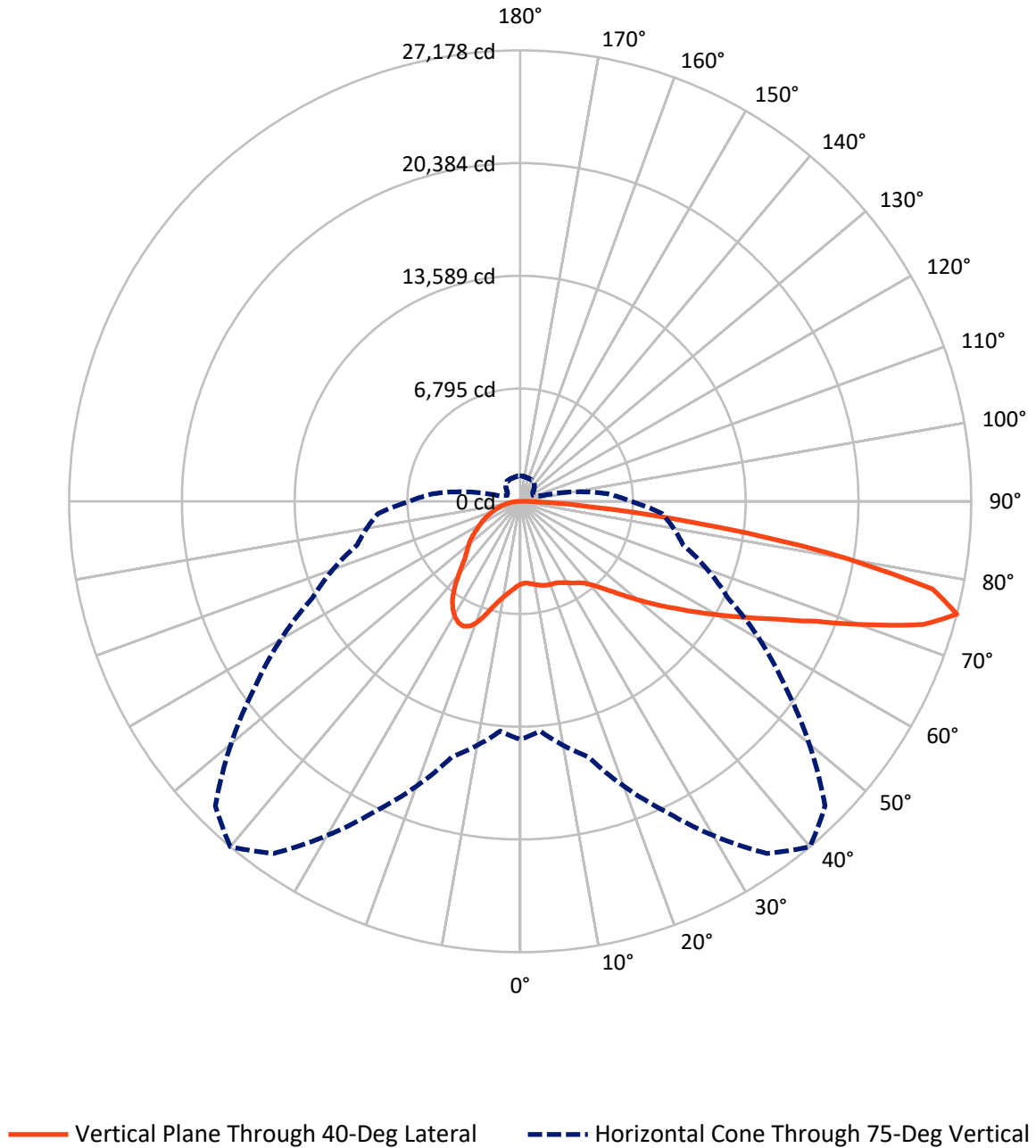
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13529.2	0.0	13529.2
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	30136.8	0.0	30136.8
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	43666.0	0.0	43666.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	498.4	1.1
10°-20°	1673.4	3.8
20°-30°	3055.6	7.0
30°-40°	4333.6	9.9
40°-50°	5851.7	13.4
50°-60°	7872.1	18.0
60°-70°	9991.5	22.9
70°-80°	9067.9	20.8
80°-90°	1321.8	3.0
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°	43666.0	100.0
0°-180°	43666.0	100.0

**Coefficient of Utilization**



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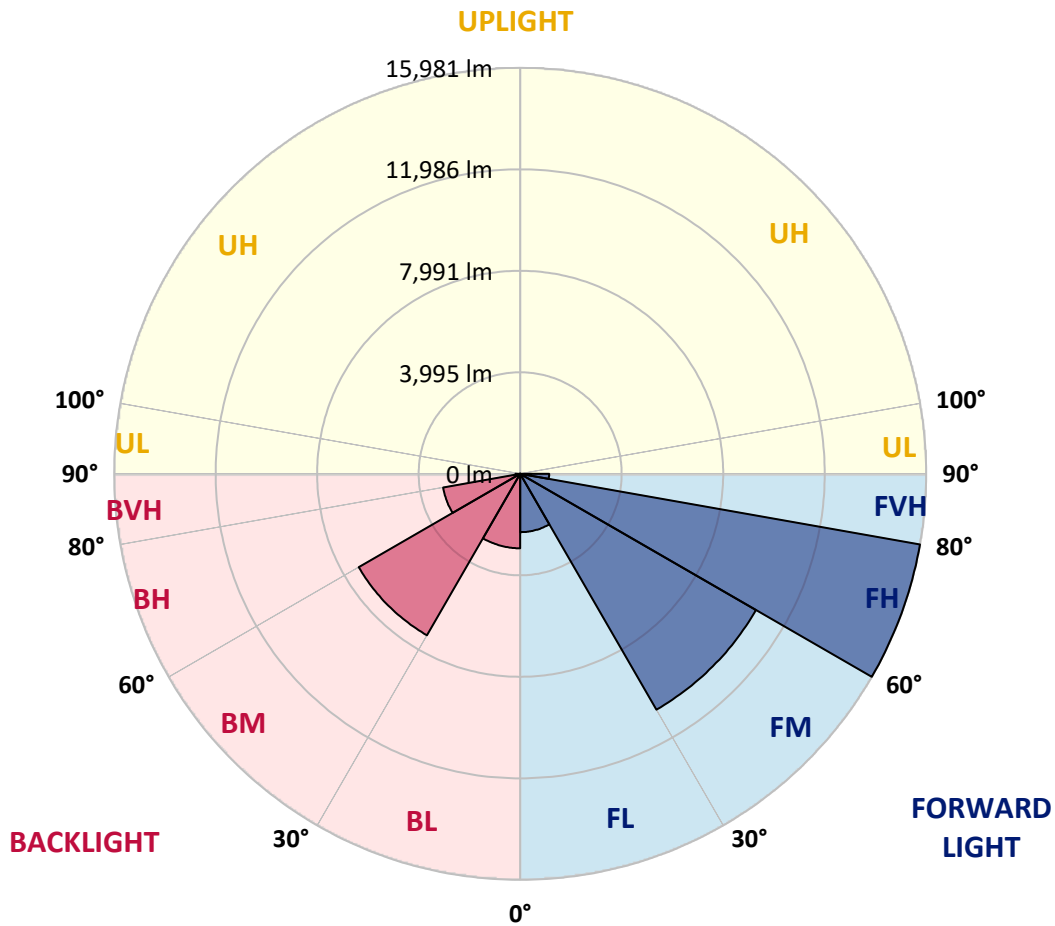
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2296.9	5.3			
FM (30°-60°)	10719.0	24.5			
FH (60°-80°)	15981.1	36.6			G5
FVH (80°-90°)	1139.8	2.6			G5
BL (0°-30°)	2930.5	6.7	B4/5000		
BM (30°-60°)	7338.4	16.8	B4/8500		
BH (60°-80°)	3078.3	7.0	B4/5000		G4/5000
BVH (80°-90°)	182.0	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	4993.3	4993.3	4993.3	4993.3	4993.3	4993.3	4993.3	4993.3	4993.3	4993.3
2.5°	4916.8	4944.6	4937.7	4928.4	4928.4	4930.7	4928.4	4944.6	4960.8	4977.1
5°	4967.8	4995.6	4981.7	4970.1	4960.8	4958.5	4951.6	4949.3	4958.5	4979.4
7.5°	5067.4	5095.2	5074.3	5053.5	5035.0	5025.7	5016.4	5002.5	4995.6	5007.2
10°	5178.5	5206.3	5180.9	5143.8	5113.7	5102.1	5092.9	5079.0	5069.7	5076.6
12.5°	5289.7	5317.5	5282.8	5231.8	5192.4	5185.5	5173.9	5169.3	5167.0	5164.6
15°	5393.9	5417.1	5373.1	5312.9	5271.2	5259.6	5248.0	5255.0	5266.6	5280.4
17.5°	5475.0	5498.2	5433.3	5354.6	5315.2	5310.6	5303.6	5326.8	5359.2	5393.9
20°	5549.1	5572.3	5488.9	5382.4	5336.0	5336.0	5338.3	5387.0	5433.3	5484.3
22.5°	5653.3	5671.8	5569.9	5424.0	5356.9	5361.5	5380.0	5428.7	5486.6	5556.0
25°	5808.5	5822.4	5697.3	5502.8	5426.4	5440.3	5456.5	5479.6	5535.2	5616.3
27.5°	6058.6	6070.2	5905.8	5641.7	5525.9	5549.1	5572.3	5556.0	5581.5	5651.0
30°	6410.6	6417.6	6209.2	5859.4	5695.0	5706.6	5711.2	5644.1	5595.4	5651.0
32.5°	6827.5	6825.2	6577.4	6123.5	5887.2	5875.7	5836.3	5704.3	5590.8	5639.4
35°	7473.7	7448.2	7128.6	6494.0	6104.9	6033.1	5940.5	5771.4	5613.9	5627.8
37.5°	8543.7	8464.9	8022.6	7100.8	6429.2	6246.2	6109.6	5880.3	5664.9	5623.2
40°	9750.3	9650.7	9164.4	7932.3	6915.5	6621.4	6401.4	6035.5	5748.3	5644.1
42.5°	11181.6	11040.3	10516.9	8911.9	7531.6	7105.4	6774.3	6232.3	5871.0	5711.2
45°	12939.4	12751.8	12010.7	10016.6	8307.4	7740.0	7297.7	6531.1	6058.6	5840.9
47.5°	14715.8	14762.1	13708.3	11281.2	9238.5	8522.8	7953.1	6980.4	6331.9	6049.4
50°	16603.3	16635.7	15396.7	12682.3	10294.6	9407.5	8689.6	7482.9	6711.7	6345.8
52.5°	18076.3	18080.9	16929.9	14148.4	11394.6	10380.2	9484.0	8057.3	7151.8	6739.5
55°	18998.0	18986.5	18004.5	15535.6	12659.2	11401.6	10364.0	8710.4	7689.1	7202.7
57.5°	19667.4	19632.6	18745.6	16728.4	14007.1	12608.2	11359.9	9451.5	8323.7	7753.9
60°	19922.1	19901.3	19248.2	17759.0	15424.5	13942.2	12508.6	10280.7	9043.9	8404.7
62.5°	20019.4	20058.8	19741.5	18757.2	16941.4	15419.8	13770.9	11271.9	9854.5	9141.2
65°	20362.1	20433.9	20369.1	20063.4	18655.3	17149.9	15445.3	12450.7	10739.2	9930.9
67.5°	21040.7	21112.5	21140.3	21626.7	20748.9	19306.1	17534.3	13919.1	11774.5	10750.8
70°	21024.5	21003.7	21494.7	22870.4	23370.6	22291.4	20350.6	15725.5	13008.9	11431.7
72.5°	19137.0	18970.2	20130.5	22856.5	25552.3	25408.7	23789.8	18055.4	14074.2	11515.1
75°	14356.8	13912.1	15961.8	20598.4	25915.9	27178.1	25976.1	19500.6	13821.8	10174.1
77.5°	6139.7	5692.7	8108.3	15248.5	23194.6	25406.4	23970.5	17013.2	11033.4	6727.9
80°	1607.3	1605.0	2450.3	6913.2	15774.2	18761.8	16459.7	10987.0	6304.1	2404.0
82.5°	664.7	648.5	900.9	2688.9	7707.6	10528.5	8592.3	4900.6	2276.6	650.8
85°	247.8	245.5	437.7	928.7	2719.0	4342.5	3142.8	1252.9	567.4	317.3
87.5°	69.5	67.2	95.0	321.9	662.4	1005.1	537.3	206.1	159.8	125.1
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°
4993.3	0°	4993.3	4993.3	4993.3	4993.3	4993.3	4993.3	4993.3	4993.3	4993.3	4993.3
5002.5	2.5°	5009.5	5021.1	5041.9	5058.1	5079.0	5102.1	5134.5	5155.4	5176.2	5190.1
5014.1	5°	5030.3	5055.8	5109.1	5162.3	5224.9	5282.8	5349.9	5398.6	5437.9	5449.5
5055.8	7.5°	5076.6	5118.3	5208.7	5299.0	5398.6	5493.5	5590.8	5674.2	5741.3	5766.8
5129.9	10°	5157.7	5213.3	5340.7	5468.0	5600.1	5746.0	5871.0	5991.5	6086.4	6125.8
5217.9	12.5°	5259.6	5329.1	5495.8	5671.8	5854.8	6056.3	6218.4	6366.6	6484.8	6538.0
5340.7	15°	5391.6	5481.9	5695.0	5931.2	6199.9	6480.1	6686.3	6850.7	6982.7	7047.5
5468.0	17.5°	5535.2	5655.6	5924.3	6281.0	6665.4	7033.6	7274.5	7394.9	7531.6	7594.1
5586.2	20°	5674.2	5822.4	6206.8	6725.6	7237.5	7628.9	7823.4	7855.8	7865.1	7872.0
5697.3	22.5°	5817.8	6016.9	6561.2	7286.1	7835.0	8106.0	8133.7	7994.8	7800.2	7709.9
5806.2	25°	5975.2	6239.3	7024.4	7904.5	8349.1	8381.6	8168.5	7830.3	7462.1	7293.0
5894.2	27.5°	6128.1	6496.3	7580.2	8495.0	8719.7	8434.8	7976.3	7496.8	7052.2	6873.8
5956.7	30°	6281.0	6790.5	8194.0	9011.5	8888.8	8302.8	7672.9	7137.9	6690.9	6503.3
6012.3	32.5°	6436.1	7133.2	8900.3	9384.4	8858.6	8022.6	7295.4	6734.9	6341.2	6144.3
6060.9	35°	6612.1	7554.7	9569.7	9588.2	8657.2	7610.3	6797.4	6253.2	5910.4	5752.9
6118.8	37.5°	6841.4	8089.7	10160.2	9639.1	8305.1	7005.9	6179.0	5683.4	5400.9	5329.1
6204.5	40°	7126.3	8733.6	10611.8	9558.1	7784.0	6271.7	5502.8	5106.7	4946.9	4963.2
6320.3	42.5°	7496.8	9453.9	10929.1	9349.6	7059.1	5514.4	4909.9	4733.9	4810.3	4875.2
6494.0	45°	7978.6	10201.9	11126.0	8995.3	6239.3	4872.8	4560.2	4601.9	4659.8	4666.7
6774.3	47.5°	8594.6	10959.2	11255.7	8460.3	5403.2	4421.2	4337.8	4347.1	4335.5	4286.9
7193.5	50°	9363.5	11695.7	11371.5	7751.6	4692.2	4138.7	4027.5	3995.1	3835.3	3677.8
7751.6	52.5°	10239.0	12372.0	11420.1	6871.5	4138.7	3902.4	3721.8	3518.0	3219.2	3170.6
8453.3	55°	11211.7	12997.3	11295.1	5790.0	3673.2	3599.0	3325.8	3080.3	3047.8	3006.1
9377.4	57.5°	12374.3	13671.3	11040.3	4583.3	3196.1	3244.7	2978.4	3006.1	2948.2	2883.4
10565.5	60°	13645.8	14368.4	10593.3	3483.2	2702.8	2802.3	2888.0	2885.7	2869.5	2816.2
11818.5	62.5°	14789.9	14826.9	9713.2	2668.0	2269.7	2459.6	2693.5	2691.2	2677.3	2647.2
13127.0	65°	15470.8	14757.5	8244.9	2100.6	1913.0	2177.0	2429.5	2448.0	2450.3	2448.0
14111.3	67.5°	15350.4	13944.6	6230.0	1672.1	1618.9	1889.8	2167.8	2193.2	2211.8	2216.4
14236.4	70°	13988.6	12158.9	4062.2	1334.0	1357.2	1637.4	1920.0	1945.4	1961.6	1980.2
12353.5	72.5°	10903.7	8939.7	2325.2	1079.2	1127.9	1419.7	1674.5	1704.6	1713.8	1748.6
8596.9	75°	6644.6	5257.3	1255.3	850.0	926.4	1213.6	1431.3	1466.0	1482.2	1523.9
4222.0	77.5°	3159.0	2276.6	715.6	662.4	745.7	991.2	1208.9	1248.3	1204.3	1227.5
1164.9	80°	1067.7	845.3	451.6	504.9	569.7	773.5	968.1	1007.5	914.8	910.2
386.8	82.5°	372.9	342.8	287.2	335.8	368.2	553.5	731.9	782.8	680.9	678.6
173.7	85°	145.9	139.0	159.8	183.0	220.0	340.4	481.7	507.2	419.2	338.1
51.0	87.5°	30.1	32.4	39.4	41.7	67.2	118.1	173.7	213.1	169.1	143.6
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>
4993.3
5180.9
5454.1
5769.1
6128.1
6538.0
7042.9
7591.8
7890.6
7735.4
7318.5
6894.7
6524.1
6169.8
5787.6
5380.0
5018.7
4935.4
4713.0
4323.9
3698.6
3186.8
3013.1
2871.8
2797.7
2635.6
2448.0
2221.0
1989.4
1762.5
1528.6
1208.9
900.9
646.2
333.5
132.0
0.0

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