

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: P943429

Luminaire Tested: **GALN-SB7D-927-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943429  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
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-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

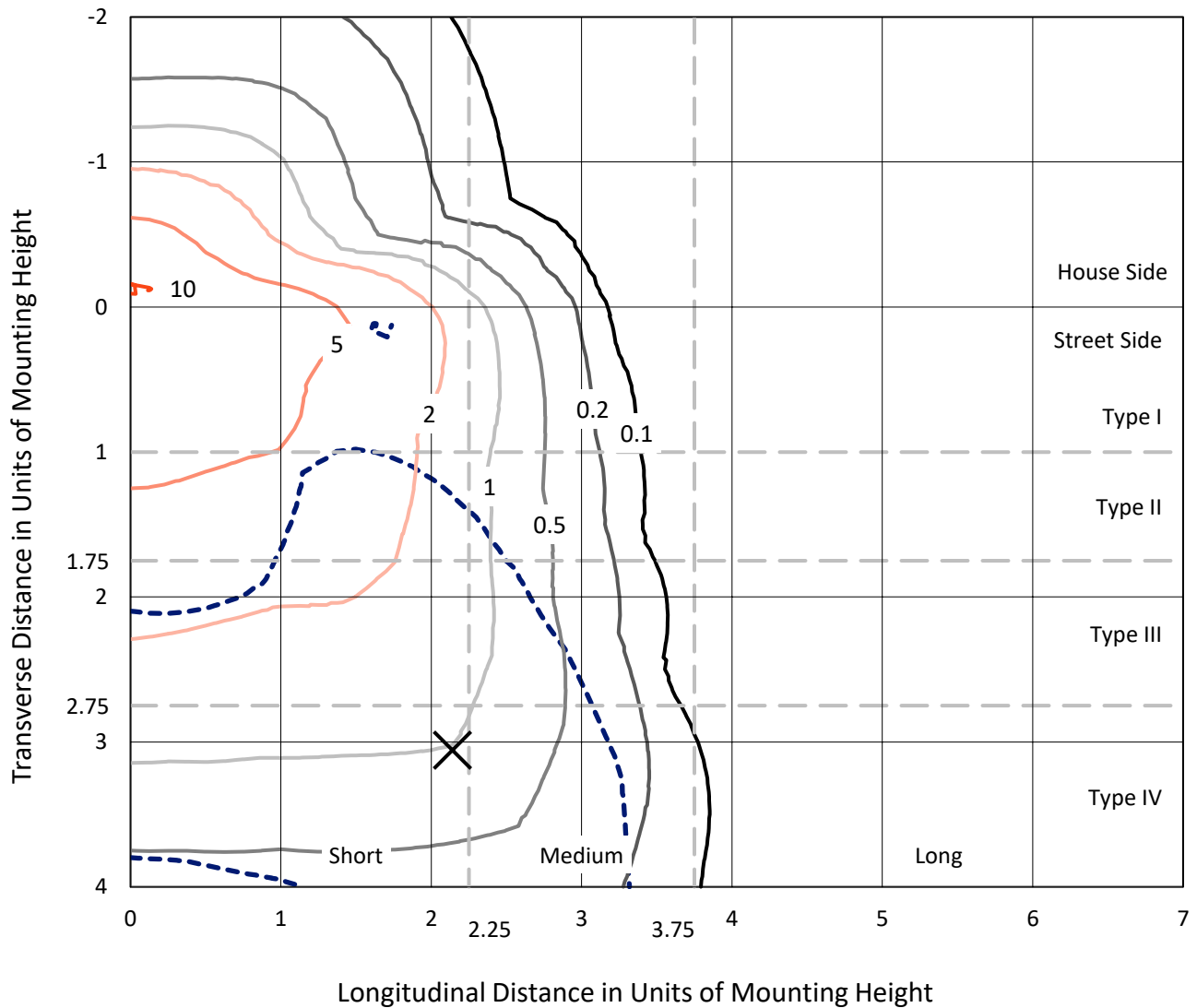
Lumens per Lamp: N/A  
Luminaire Lumens: 43538 lumens  
Efficiency: N/A  
Efficacy: 84.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 512.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

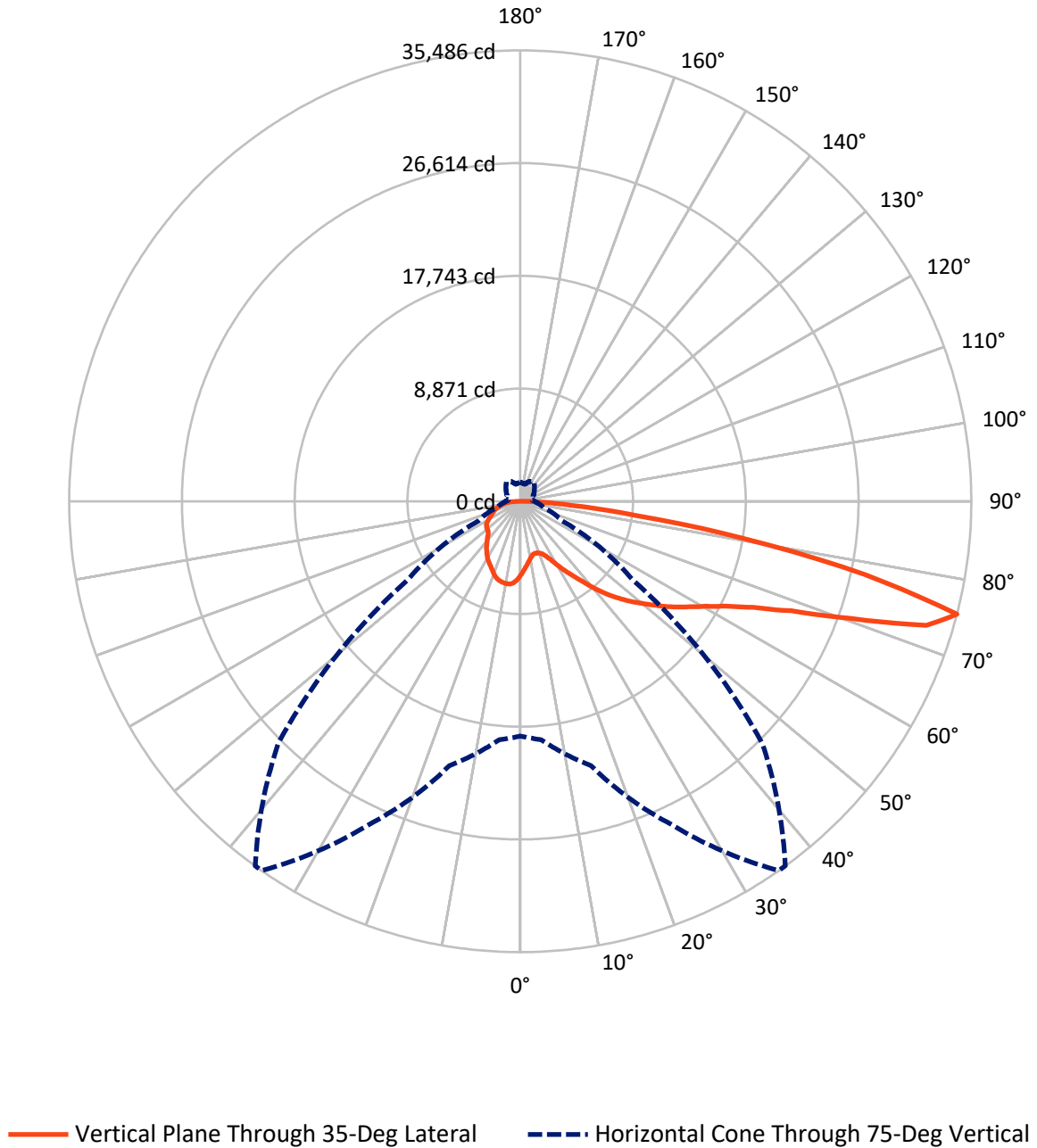
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc  
 Type IV - 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	10360.9	0.0	10360.9
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	33177.1	0.0	33177.1
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	43538.0	0.0	43538.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	549.3	1.3
10°-20°	1584.4	3.6
20°-30°	2660.7	6.1
30°-40°	4135.1	9.5
40°-50°	6137.6	14.1
50°-60°	8473.3	19.5
60°-70°	10280.0	23.6
70°-80°	8495.7	19.5
80°-90°	1221.9	2.8
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°	43538.0	100.0
0°-180°	43538.0	100.0

**Coefficient of Utilization**



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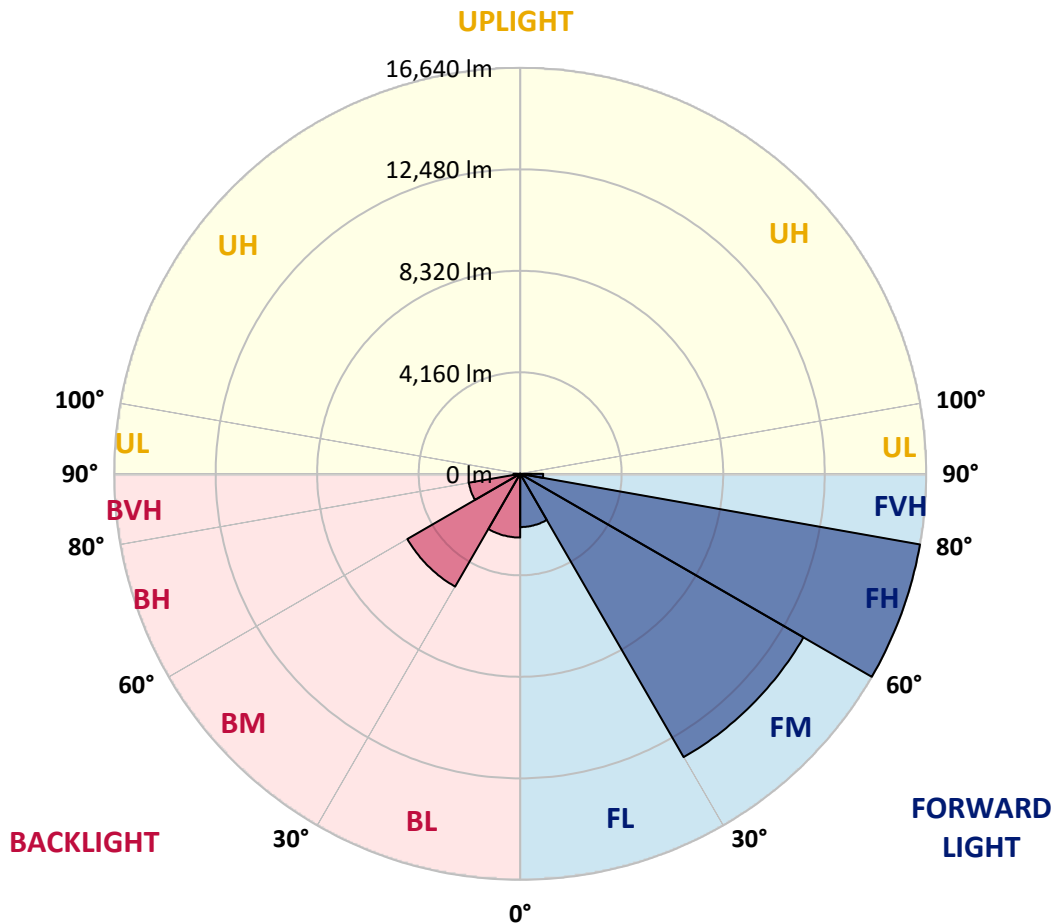
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2183.3	5.0			
FM (30°-60°)	13407.3	30.8			
FH (60°-80°)	16639.6	38.2			G5
FVH (80°-90°)	946.8	2.2			G5
BL (0°-30°)	2611.1	6.0	B4/5000		
BM (30°-60°)	5338.6	12.3	B4/8500		
BH (60°-80°)	2136.1	4.9	B3/2500		G3/2500
BVH (80°-90°)	275.1	0.6			G3/500
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 Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	5801.7	5801.7	5801.7	5801.7	5801.7	5801.7	5801.7	5801.7	5801.7	5801.7
2.5°	5349.8	5382.8	5396.9	5389.8	5425.1	5420.4	5469.9	5531.1	5615.8	5698.2
5°	4937.9	4973.3	5003.8	5032.1	5100.3	5121.5	5199.2	5316.9	5472.2	5629.9
7.5°	4554.3	4584.9	4632.0	4683.8	4799.1	4820.3	4949.7	5133.3	5349.8	5580.5
10°	4241.3	4271.9	4321.3	4380.1	4523.7	4549.6	4714.3	4959.1	5241.6	5533.4
12.5°	4107.1	4116.5	4144.8	4203.6	4328.4	4344.8	4526.1	4806.1	5135.7	5498.1
15°	4100.0	4118.9	4121.2	4151.8	4255.4	4262.4	4429.6	4707.3	5069.7	5491.1
17.5°	4170.7	4184.8	4163.6	4182.4	4269.5	4281.3	4413.1	4660.2	5048.6	5521.6
20°	4358.9	4370.7	4307.2	4281.3	4344.8	4354.2	4483.7	4690.8	5069.7	5585.2
22.5°	4759.1	4766.1	4610.8	4504.9	4509.6	4514.3	4627.3	4815.6	5152.1	5700.5
25°	5382.8	5378.1	5130.9	4926.2	4808.5	4782.6	4857.9	5018.0	5291.0	5853.5
27.5°	6112.4	6077.1	5830.0	5524.0	5267.5	5229.8	5213.3	5281.6	5488.7	6055.9
30°	6936.2	6903.2	6637.3	6237.2	5881.8	5820.6	5665.2	5629.9	5782.9	6331.3
32.5°	7840.0	7818.8	7501.1	7016.2	6540.8	6470.2	6208.9	6114.8	6234.8	6747.9
35°	8597.9	8579.0	8315.4	7816.5	7235.1	7148.0	6882.1	6776.1	6837.3	7282.2
37.5°	9282.8	9273.4	9047.4	8654.3	8054.2	7948.3	7649.3	7614.0	7602.3	7985.9
40°	9918.3	9894.7	9659.4	9452.2	9007.4	8910.9	8647.3	8616.7	8527.3	8852.1
42.5°	10622.0	10560.8	10219.5	10123.0	10003.0	9923.0	9765.3	9770.0	9572.3	9828.8
45°	11196.3	11161.0	10810.3	10753.8	10883.3	10850.3	10986.8	11022.1	10638.5	10852.7
47.5°	11812.9	11780.0	11483.4	11443.4	11794.1	11803.5	12286.0	12297.8	11678.8	11916.5
50°	12573.2	12526.1	12231.9	12281.3	12674.4	12709.7	13592.3	13512.3	12636.7	12996.8
52.5°	13074.5	13102.7	13039.2	13119.2	13655.8	13688.8	14877.4	14672.6	13585.2	14063.0
55°	13444.0	13500.5	13698.2	13881.8	14691.4	14724.4	16089.5	15776.5	14371.4	15051.6
57.5°	13919.5	13839.4	14209.0	14566.7	15675.3	15762.4	17268.7	16840.3	15068.0	15903.6
60°	14602.0	14545.5	14832.7	15362.2	16776.8	16915.6	18516.1	17798.3	15578.8	16579.1
62.5°	15986.0	15844.7	15889.5	16357.8	18165.4	18349.0	19923.6	18633.8	15833.0	16842.7
65°	18054.8	17812.4	17586.4	17911.2	20121.3	20302.5	21512.3	19290.5	15738.8	16331.9
67.5°	20660.3	20420.2	20142.5	20448.5	23002.2	23145.7	23472.9	19660.0	14997.4	14364.3
70°	22809.2	22719.7	23051.6	24310.8	27603.5	27608.2	25986.6	19354.0	12966.2	10184.2
72.5°	22524.4	22470.2	24219.0	28111.9	33402.9	33278.2	28366.1	17038.0	8734.4	4594.3
75°	18478.5	18829.2	21538.2	28043.7	35485.9	35469.4	26909.2	10831.5	3612.8	1904.1
77.5°	9908.8	10464.3	13983.0	20705.0	27702.4	28119.0	18918.6	3789.4	1551.1	1219.2
80°	3231.6	3716.4	5573.4	10542.0	18000.7	17923.0	8108.3	1487.5	1061.5	863.8
82.5°	1372.2	1428.7	2490.2	4978.0	9238.1	9094.5	2581.9	854.4	746.1	590.8
85°	536.6	600.2	1099.2	2301.9	4001.2	3914.1	932.0	423.7	477.8	386.0
87.5°	176.5	214.2	393.1	788.5	1245.1	1200.4	228.3	145.9	207.1	176.5
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°
5801.7	0°	5801.7	5801.7	5801.7	5801.7	5801.7	5801.7	5801.7	5801.7	5801.7	5801.7
5818.2	2.5°	5851.2	5888.8	5933.5	5999.4	6055.9	6103.0	6152.4	6183.0	6194.8	6230.1
5827.6	5°	5893.5	5975.9	6086.5	6194.8	6300.7	6364.3	6420.7	6449.0	6474.9	6493.7
5853.5	7.5°	5964.1	6070.0	6244.2	6385.4	6474.9	6526.7	6564.3	6554.9	6564.3	6569.0
5881.8	10°	6025.3	6173.6	6380.7	6514.9	6583.1	6585.5	6576.1	6543.1	6526.7	6529.0
5924.1	12.5°	6098.3	6263.0	6486.6	6599.6	6618.4	6566.7	6526.7	6470.2	6449.0	6439.6
5987.7	15°	6197.1	6385.4	6602.0	6644.3	6597.3	6531.4	6463.1	6371.3	6324.2	6286.6
6095.9	17.5°	6317.2	6524.3	6691.4	6660.8	6559.6	6451.3	6340.7	6201.9	6105.4	6065.3
6244.2	20°	6484.3	6670.2	6759.7	6625.5	6472.5	6307.8	6119.5	5950.0	5860.6	5820.6
6432.5	22.5°	6686.7	6865.6	6825.6	6564.3	6347.8	6084.2	5848.8	5724.1	5679.3	5651.1
6674.9	25°	6929.1	7082.1	6872.6	6474.9	6143.0	5787.6	5606.4	5566.4	5545.2	5524.0
6971.5	27.5°	7244.5	7326.9	6907.9	6343.1	5822.9	5472.2	5406.3	5413.4	5406.3	5371.0
7383.4	30°	7661.1	7644.6	6940.9	6128.9	5455.7	5187.4	5192.1	5222.7	5227.4	5203.9
7957.7	32.5°	8209.5	8042.4	6957.4	5851.2	5105.1	4937.9	4942.7	4975.6	4999.1	4959.1
8708.5	35°	8873.2	8506.1	6931.5	5502.8	4834.4	4700.2	4664.9	4674.3	4681.4	4643.7
9619.3	37.5°	9647.6	9026.2	6816.2	5116.8	4610.8	4467.2	4391.9	4328.4	4290.7	4255.4
10650.2	40°	10497.3	9593.5	6604.3	4740.2	4361.3	4220.1	4107.1	3987.1	3860.0	3812.9
11742.3	42.5°	11386.9	10177.2	6347.8	4380.1	4074.2	3958.8	3838.8	3664.6	3474.0	3377.5
12876.8	45°	12309.6	10775.0	6095.9	4024.7	3780.0	3730.5	3591.7	3382.2	3175.1	3052.7
14013.6	47.5°	13213.4	11339.9	5726.4	3667.0	3504.6	3558.7	3450.4	3257.4	3026.8	2833.8
15141.0	50°	14077.1	11869.4	5121.5	3304.5	3281.0	3506.9	3403.4	3125.6	2862.0	2614.9
16247.2	52.5°	14933.9	12297.8	4347.2	2975.0	3160.9	3492.8	3342.2	3036.2	2713.8	2454.9
17287.5	55°	15661.1	12519.0	3601.1	2692.6	2986.8	3372.8	3269.2	2930.3	2504.3	2228.9
18000.7	57.5°	16075.4	12340.2	2979.7	2414.8	2746.7	3175.1	3144.5	2704.3	2254.8	2043.0
18139.5	60°	15896.5	11615.2	2471.3	2172.4	2518.4	2960.9	2927.9	2480.7	2064.1	1864.1
17395.8	62.5°	14910.3	10233.6	2068.9	1960.6	2311.3	2742.0	2711.4	2308.9	1918.2	1725.2
15421.1	65°	12923.9	8324.8	1755.8	1784.1	2101.8	2478.4	2523.1	2165.4	1802.9	1614.6
11930.6	67.5°	9857.1	6030.0	1511.0	1631.1	1897.0	2219.5	2348.9	2061.8	1706.4	1527.5
6903.2	70°	5618.1	3424.6	1303.9	1482.8	1715.8	1979.4	2214.8	1979.4	1602.8	1454.6
2586.7	72.5°	2130.0	1572.2	1127.4	1334.5	1541.6	1777.0	2066.5	1850.0	1482.8	1372.2
1336.9	75°	1136.8	957.9	948.5	1160.3	1341.6	1579.3	1880.6	1722.9	1393.4	1449.8
925.0	77.5°	774.3	677.8	793.2	993.2	1122.7	1360.4	1682.9	1529.9	1207.4	1202.7
640.2	80°	536.6	480.1	644.9	800.2	868.5	1143.9	1468.7	1313.3	983.8	917.9
395.4	82.5°	322.4	313.0	482.5	597.8	614.3	882.6	1216.8	1101.5	804.9	701.4
235.4	85°	176.5	185.9	308.3	350.7	357.8	616.7	953.2	852.0	619.0	520.2
84.7	87.5°	49.4	63.5	113.0	138.9	171.8	320.1	567.2	506.0	310.7	216.5
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>
5801.7
6227.7
6498.4
6576.1
6533.7
6434.9
6298.4
6067.7
5815.9
5655.8
5524.0
5378.1
5215.7
4978.0
4669.6
4278.9
3834.1
3389.2
3043.3
2812.6
2593.7
2426.6
2205.4
2014.7
1835.8
1694.6
1584.0
1499.3
1435.7
1353.3
1496.9
1108.6
877.9
706.1
524.9
216.5
0.0

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