

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: P954622

Luminaire Tested: **GALN-SB7D-827-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954622  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7D-827-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

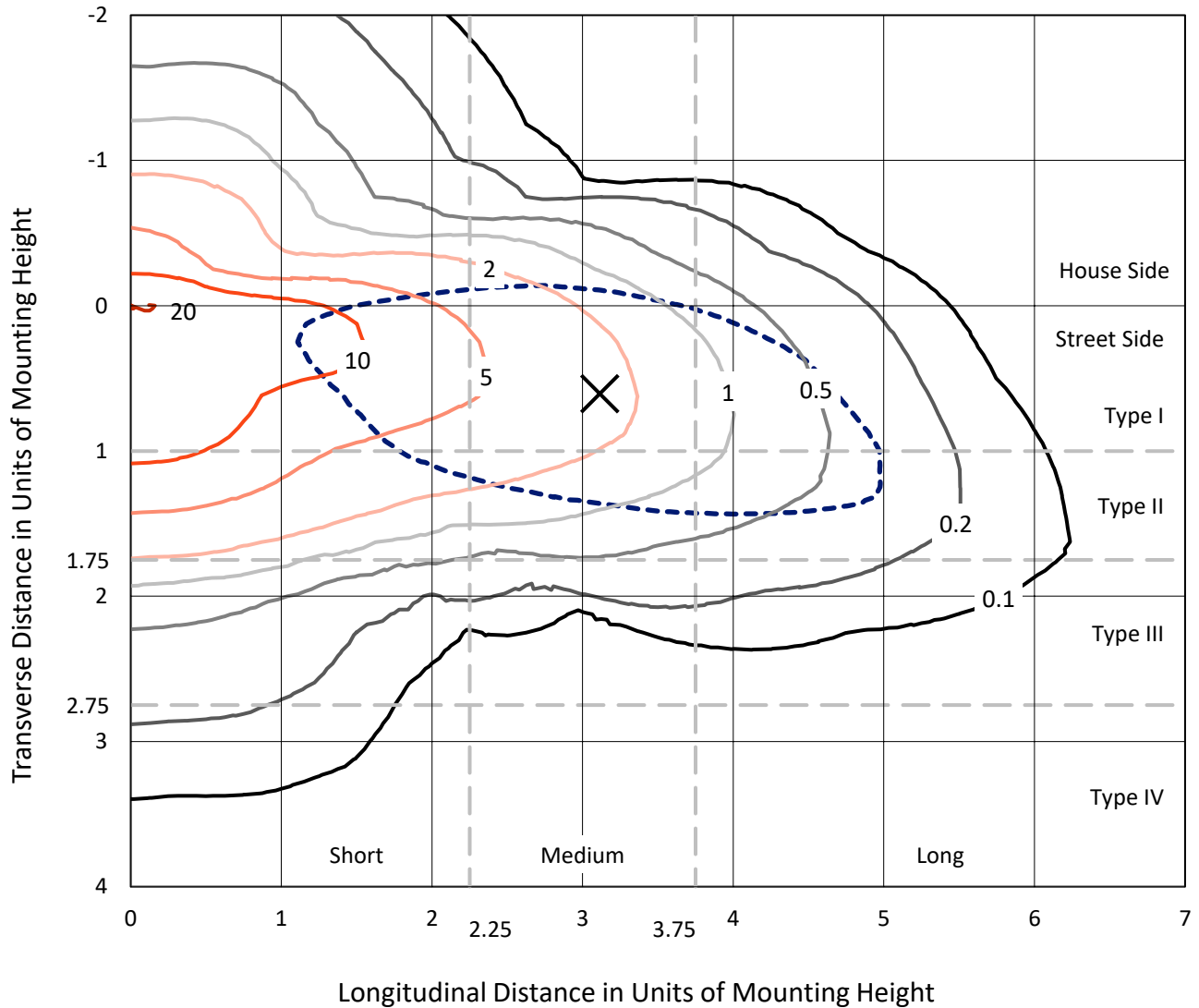
Lumens per Lamp: N/A  
Luminaire Lumens: 62548 lumens  
Efficiency: N/A  
Efficacy: 122.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 512.8  
Input Voltage (V): NR  
Input Current (Ain): 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

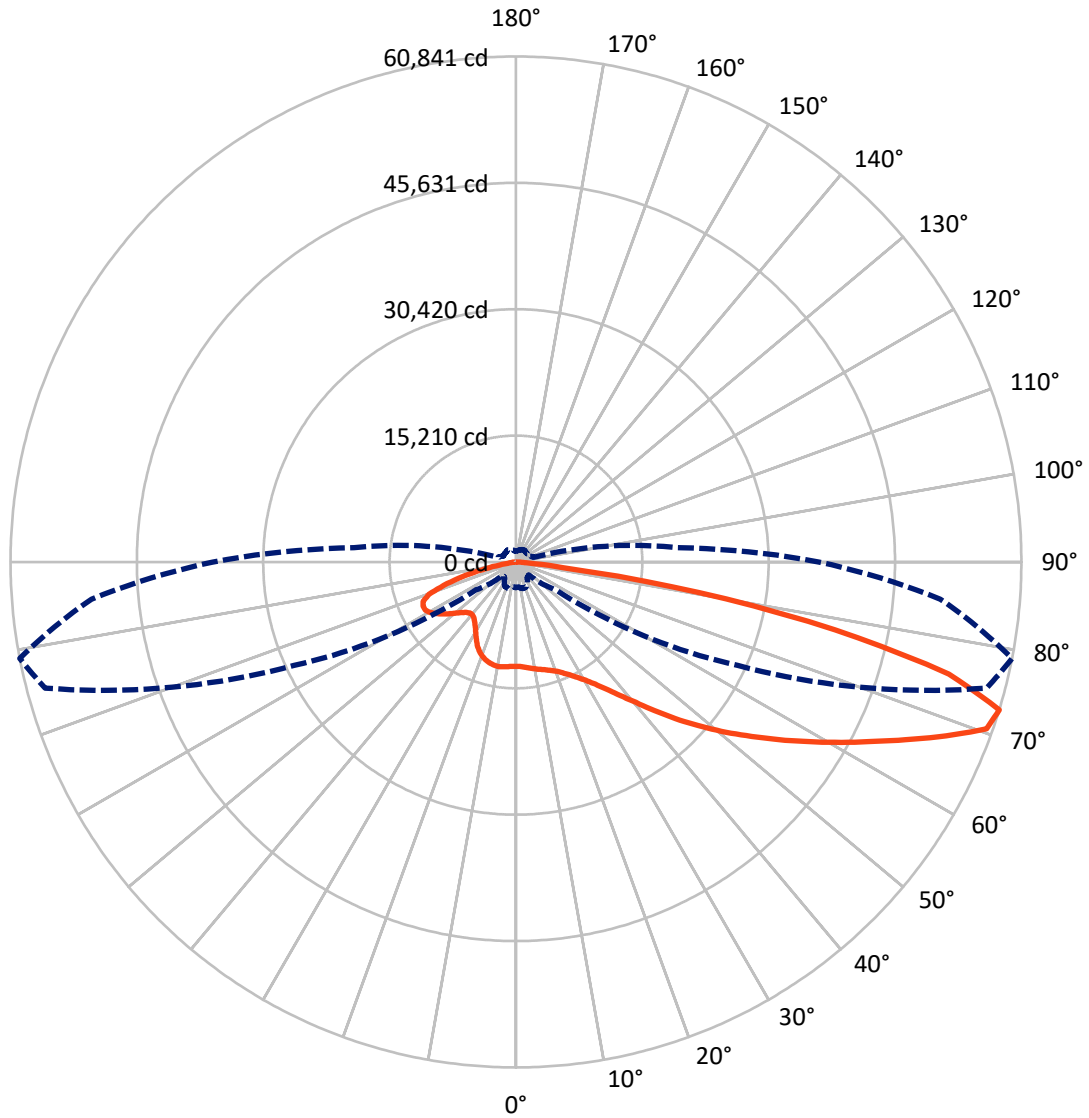
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.2 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13764.0	0.0	13764.0
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	48784.0	0.0	48784.0
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	62548.0	0.0	62548.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1139.7	1.8
10°-20°	2979.8	4.8
20°-30°	4808.1	7.7
30°-40°	7216.4	11.5
40°-50°	10236.8	16.4
50°-60°	12927.7	20.7
60°-70°	13129.9	21.0
70°-80°	8948.6	14.3
80°-90°	1161.0	1.9
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°	62548.0	100.0
0°-180°	62548.0	100.0

**Coefficient of Utilization**



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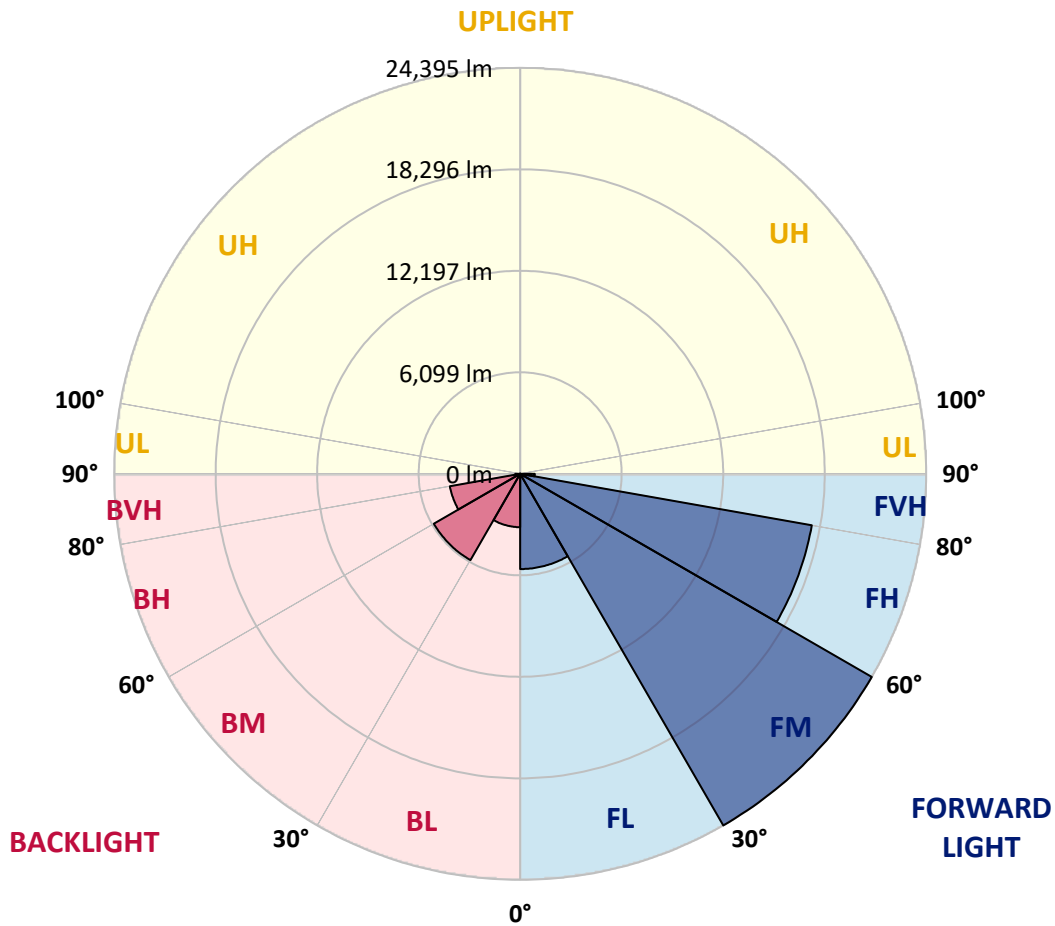
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5721.6	9.1			
FM (30°-60°)	24395.0	39.0			
FH (60°-80°)	17792.8	28.4			G5
FVH (80°-90°)	874.6	1.4			G5
BL (0°-30°)	3206.0	5.1	B4/5000		
BM (30°-60°)	5985.9	9.6	B4/8500		
BH (60°-80°)	4285.7	6.9	B4/5000		G4/5000
BVH (80°-90°)	286.4	0.5			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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	12555.9	12555.9	12555.9	12555.9	12555.9	12555.9	12555.9	12555.9	12555.9	12555.9
2.5°	12562.5	12503.0	12539.4	12526.1	12542.7	12562.5	12569.2	12579.1	12612.2	12608.9
5°	12536.1	12476.5	12526.1	12509.6	12552.6	12598.9	12638.6	12675.0	12728.0	12751.1
7.5°	12479.8	12440.1	12489.7	12539.4	12618.8	12688.3	12744.5	12827.2	12903.3	12916.5
10°	12152.3	12122.5	12238.3	12367.3	12585.7	12774.3	12896.7	12992.6	13075.4	13088.6
12.5°	11811.5	11775.1	11904.1	12079.5	12433.5	12774.3	13032.3	13158.1	13230.9	13273.9
15°	11755.2	11725.5	11798.3	11950.5	12244.9	12684.9	13125.0	13356.6	13419.4	13469.1
17.5°	12026.5	11970.3	12000.1	12053.0	12225.1	12602.2	13197.8	13581.6	13677.5	13730.4
20°	12655.2	12575.8	12529.4	12423.6	12393.8	12615.5	13191.2	13852.9	13978.6	14044.8
22.5°	13492.2	13439.3	13340.0	13072.0	12780.9	12777.6	13316.9	14200.3	14435.2	14498.0
25°	14504.6	14425.2	14299.5	13935.6	13376.4	13098.5	13528.6	14643.6	15037.3	15053.9
27.5°	15669.3	15550.1	15378.1	14898.4	14144.0	13601.4	13852.9	15153.1	15728.8	15722.2
30°	16896.7	16777.6	16595.6	16013.3	15063.8	14279.7	14302.8	15702.3	16549.3	16512.9
32.5°	17793.3	17704.0	17667.6	17217.7	16122.5	15080.3	14819.0	16311.1	17561.7	17528.7
35°	18481.5	18365.7	18408.7	18180.4	17277.2	15976.9	15450.9	17035.7	18792.5	18789.2
37.5°	19163.1	19060.5	19096.9	18944.7	18345.9	17115.1	16221.8	17922.4	20317.8	20390.5
40°	19785.1	19675.9	19821.5	19679.2	19176.3	18326.0	17098.5	18924.9	22084.5	22223.5
42.5°	20158.9	20072.9	20314.4	20317.8	19897.6	19348.4	18061.3	20029.9	24129.2	24440.2
45°	20288.0	20258.2	20622.1	20698.2	20536.1	19940.6	18928.2	21234.2	26332.7	26888.5
47.5°	20149.0	20092.8	20595.7	20876.9	21005.9	20218.5	19646.1	22537.8	28582.5	29396.4
50°	19447.6	19338.4	20086.2	20678.4	21138.3	20400.5	20370.7	24043.2	31140.0	32030.0
52.5°	18187.1	18104.3	18954.6	19983.6	20847.1	20489.8	21184.6	25687.5	33568.5	34719.8
55°	16575.8	16466.6	17402.9	18746.2	20122.6	20460.0	21998.5	27527.1	36433.7	37601.6
57.5°	14021.6	13803.2	14987.7	16575.8	18941.4	20423.6	22845.5	29356.7	39345.2	40744.7
60°	10296.2	9971.9	11424.4	13307.0	16632.0	20069.6	23894.3	31408.0	42839.0	44099.6
62.5°	5995.1	5806.5	6756.0	8512.9	12536.1	17985.2	24483.2	33793.4	46273.3	47596.7
65°	4655.1	4602.2	4684.9	4820.5	6977.7	13465.8	22666.8	36119.4	50640.5	51566.9
67.5°	4258.1	4218.4	4254.8	4000.0	3540.1	7500.5	17932.3	36708.3	55318.8	55881.3
70°	3785.0	3738.7	3857.8	3639.4	2785.8	3411.1	11586.5	34571.0	59040.9	60096.4
72.5°	3083.6	3030.6	3308.5	3209.3	2345.8	2190.3	5819.7	29492.3	58650.5	60840.8
75°	2368.9	2339.1	2670.0	2752.7	1912.3	1723.8	2792.4	21922.4	51613.3	53820.1
77.5°	1839.5	1816.4	1985.1	2286.2	1541.8	1336.7	1717.1	13905.8	38895.2	39282.3
80°	1379.7	1313.5	1469.0	1770.1	1201.0	976.0	1164.6	8109.2	24585.8	22286.3
82.5°	863.5	830.4	959.5	1181.1	847.0	671.6	757.7	4479.8	9852.8	5803.2
85°	493.0	479.7	522.7	674.9	459.9	387.1	433.4	1978.5	1799.8	1237.4
87.5°	198.5	191.9	238.2	301.1	168.7	142.3	152.2	476.4	397.0	367.2
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°
12555.9	0°	12555.9	12555.9	12555.9	12555.9	12555.9	12555.9	12555.9	12555.9	12555.9	12555.9
12605.5	2.5°	12592.3	12592.3	12546.0	12473.2	12390.5	12337.6	12251.5	12228.4	12139.0	12112.6
12718.0	5°	12744.5	12718.0	12575.8	12370.6	12089.4	11831.3	11546.8	11368.1	11116.7	11027.4
12939.7	7.5°	12936.4	12863.6	12618.8	12168.8	11579.9	11000.9	10398.7	9942.2	9505.4	9349.9
13121.7	10°	13111.8	13009.2	12592.3	11804.9	10785.8	9783.4	8823.9	8152.2	7642.7	7434.3
13323.5	12.5°	13287.1	13098.5	12417.0	11199.4	9657.6	8297.8	7275.5	6752.7	6438.4	6187.0
13488.9	15°	13452.5	13187.8	12145.7	10388.8	8420.2	7040.6	6286.2	5869.4	5617.9	5452.5
13730.4	17.5°	13644.4	13263.9	11738.7	9359.9	7242.4	6170.4	5555.0	5303.6	5254.0	5234.1
14061.3	20°	13912.4	13333.4	11202.7	8208.5	6375.6	5475.6	5158.0	5134.9	5131.5	5121.6
14458.3	22.5°	14200.3	13416.1	10494.7	7163.0	5637.8	5042.2	4986.0	4939.7	4909.9	4906.6
14938.1	25°	14541.0	13442.6	9608.0	6306.1	5009.1	4837.1	4770.9	4701.4	4681.6	4681.6
15484.0	27.5°	14871.9	13353.3	8575.7	5561.7	4655.1	4648.5	4562.5	4539.3	4536.0	4545.9
16106.0	30°	15202.7	13184.5	7550.1	4873.5	4450.0	4450.0	4420.2	4436.8	4450.0	4483.1
16959.6	32.5°	15649.4	13005.9	6693.2	4364.0	4271.3	4238.2	4268.0	4301.1	4314.3	4357.3
18081.2	35°	16304.5	12880.2	6011.6	4086.0	4086.0	4043.0	4059.6	4053.0	4023.2	4003.3
19437.7	37.5°	17171.3	12873.5	5449.2	3957.0	3930.5	3923.9	3927.2	3884.2	3768.4	3629.5
21078.7	40°	18213.5	13052.2	5015.7	3867.7	3847.8	3887.5	3867.7	3751.9	3434.3	3192.7
23096.9	42.5°	19613.0	13561.7	4737.8	3758.5	3818.1	3867.7	3788.3	3387.9	3172.9	3010.8
25396.4	45°	21260.7	14388.8	4595.6	3642.7	3761.8	3821.4	3437.6	3262.2	3090.2	2895.0
27904.2	47.5°	23126.7	15431.0	4562.5	3533.5	3636.1	3672.5	3288.7	3209.3	3014.1	2802.3
30425.4	50°	25158.2	16665.1	4651.8	3404.5	3454.1	3328.4	3239.1	3166.3	2964.5	2756.0
33009.3	52.5°	27259.1	18024.9	4830.5	3229.1	3272.1	3133.2	3219.2	3156.3	2934.7	2653.5
35679.3	55°	29323.6	19394.7	5002.5	3024.0	3086.9	2957.8	3163.0	3116.6	2799.0	2481.4
38528.0	57.5°	31421.2	20757.8	5171.3	2842.0	2908.2	2789.1	3073.6	3010.8	2646.8	2322.6
41638.0	60°	33601.6	22081.2	5250.7	2666.7	2713.0	2633.6	2938.0	2828.8	2474.8	2160.5
44695.1	62.5°	35642.9	23183.0	5121.6	2491.3	2521.1	2488.0	2759.3	2613.7	2302.7	1978.5
47881.2	65°	37690.9	23838.0	4724.6	2319.3	2325.9	2309.4	2507.9	2382.2	2100.9	1819.7
50670.3	67.5°	39547.0	24205.3	4092.7	2134.0	2117.5	2110.8	2273.0	2130.7	1905.7	1660.9
52791.1	70°	39940.7	23272.3	3126.6	1915.6	1915.6	1899.1	2014.9	1869.3	1690.7	1492.2
51272.5	72.5°	36480.0	19576.6	2220.0	1667.5	1694.0	1660.9	1756.8	1634.4	1472.3	1340.0
44188.9	75°	29416.2	14355.8	1614.6	1412.7	1459.1	1402.8	1492.2	1406.1	1267.2	1263.9
30451.8	77.5°	20211.9	8876.8	1171.2	1164.6	1197.7	1124.9	1227.5	1181.1	1055.4	999.2
13254.0	80°	8625.4	3540.1	853.6	899.9	899.9	833.8	952.9	966.1	856.9	830.4
2557.5	82.5°	1717.1	1005.8	598.8	618.7	582.3	562.5	674.9	747.7	1032.3	1148.1
770.9	85°	516.1	370.6	360.6	337.5	297.8	301.1	397.0	751.0	926.4	529.4
254.8	87.5°	142.3	92.6	95.9	76.1	62.9	82.7	135.7	569.1	311.0	132.3
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>
12555.9
12155.6
11093.5
9369.8
7480.6
6269.7
5482.3
5247.3
5154.7
4943.0
4701.4
4572.4
4506.2
4393.7
4049.7
3632.8
3186.1
3004.2
2881.7
2785.8
2732.9
2633.6
2464.9
2316.0
2150.6
1975.2
1799.8
1641.0
1485.5
1300.3
1138.1
936.3
830.4
1151.4
456.6
112.5
0.0

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