

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: P956419

Luminaire Tested: **GALN-SB9A-827-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956419  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9A-827-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

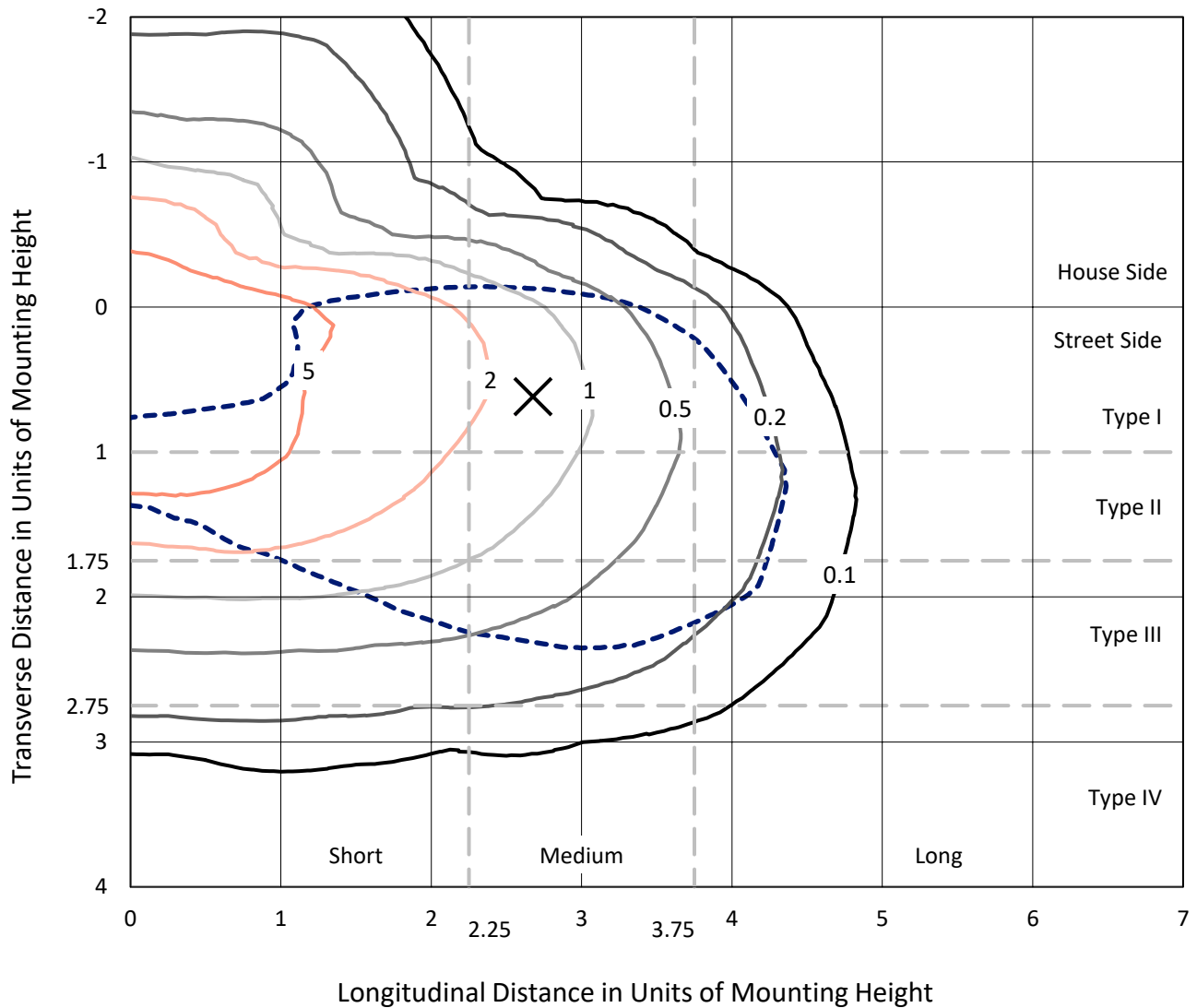
Lumens per Lamp: N/A  
Luminaire Lumens: 36474 lumens  
Efficiency: N/A  
Efficacy: 142.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): 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

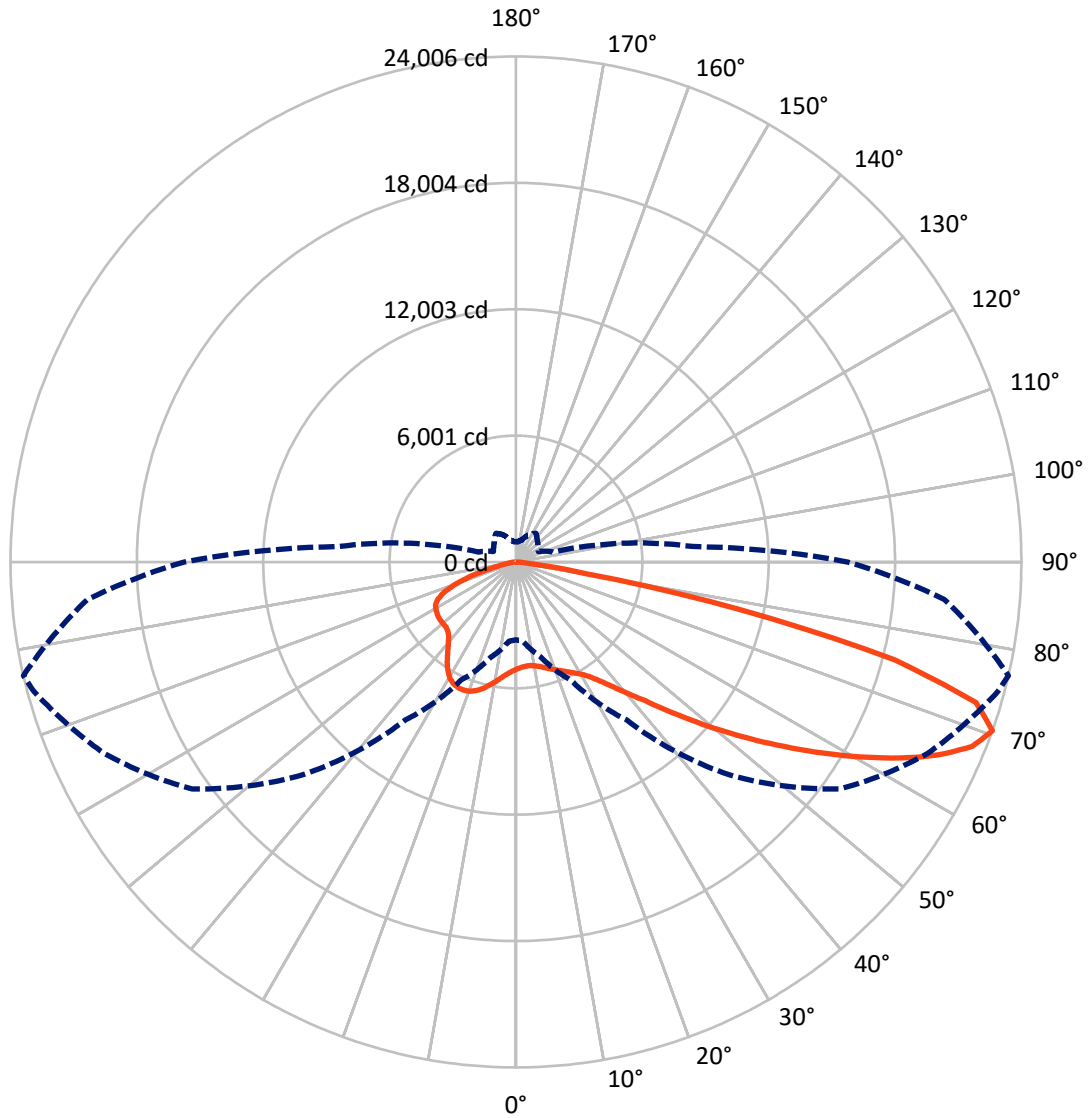
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7987.2	0.0	7987.2
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	28486.8	0.0	28486.8
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	36474.0	0.0	36474.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	485.3	1.3
10°-20°	1400.6	3.8
20°-30°	2395.3	6.6
30°-40°	3851.8	10.6
40°-50°	6013.7	16.5
50°-60°	8032.9	22.0
60°-70°	8561.8	23.5
70°-80°	5270.6	14.5
80°-90°	461.9	1.3
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°	36474.0	100.0
0°-180°	36474.0	100.0

**Coefficient of Utilization**



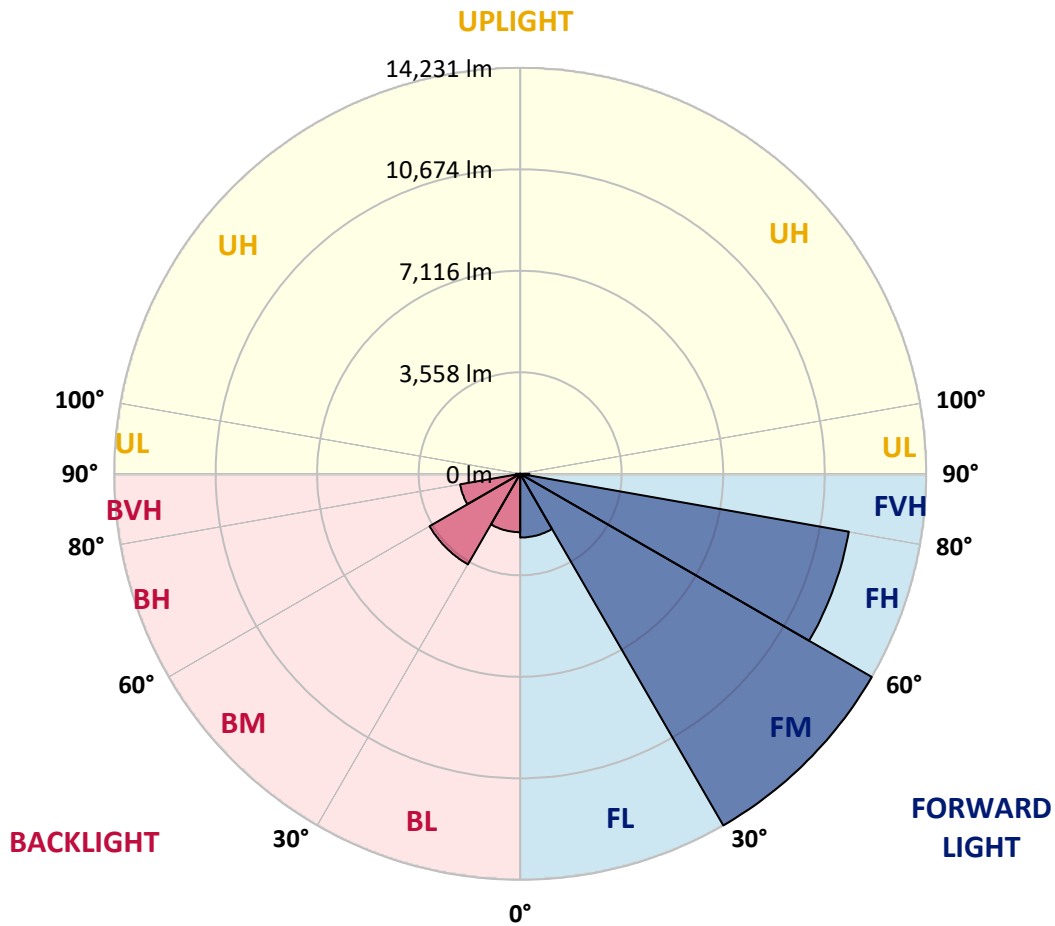
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2234.6	6.1			
FM (30°-60°)	14231.4	39.0			
FH (60°-80°)	11697.8	32.1			G4/12000
FVH (80°-90°)	323.0	0.9			G3/500
BL (0°-30°)	2046.6	5.6	B3/2500		
BM (30°-60°)	3667.1	10.1	B3/5000		
BH (60°-80°)	2134.6	5.9	B3/2500		G3/2500
BVH (80°-90°)	138.9	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5088.5	5088.5	5088.5	5088.5	5088.5	5088.5	5088.5	5088.5	5088.5	5088.5
2.5°	4690.6	4688.7	4713.0	4720.5	4765.3	4797.0	4856.8	4920.3	5002.5	5011.9
5°	4419.7	4419.7	4447.7	4477.6	4535.5	4599.0	4690.6	4800.8	4942.8	4965.2
7.5°	4189.9	4204.9	4229.2	4287.1	4354.3	4445.9	4586.0	4742.9	4929.7	4965.2
10°	4005.0	4021.8	4051.7	4098.4	4199.3	4326.3	4509.4	4711.1	4961.4	5017.5
12.5°	3947.1	3963.9	3980.7	4016.2	4109.6	4259.1	4477.6	4726.1	5038.0	5094.1
15°	4081.6	4102.1	4089.1	4079.7	4128.3	4264.7	4492.6	4780.2	5133.3	5213.6
17.5°	4391.7	4399.2	4369.3	4281.5	4274.0	4346.9	4563.5	4855.0	5252.8	5340.6
20°	4892.3	4879.2	4817.6	4643.9	4544.9	4529.9	4685.0	4967.0	5376.1	5469.5
22.5°	5572.3	5557.3	5434.0	5159.4	4939.0	4793.3	4860.6	5112.7	5514.4	5619.0
25°	6420.3	6399.8	6218.6	5845.0	5503.2	5142.6	5099.7	5305.1	5684.4	5781.5
27.5°	7410.4	7393.6	7197.4	6704.3	6211.1	5620.8	5396.7	5531.2	5861.8	5972.0
30°	8475.2	8523.7	8176.3	7645.8	7021.8	6244.8	5796.4	5809.5	6091.6	6190.6
32.5°	9726.7	9810.8	9392.3	8719.9	7868.1	6922.8	6300.8	6198.1	6425.9	6508.1
35°	10967.1	11062.3	10714.9	9971.4	8990.7	7722.3	6827.6	6644.5	6870.5	6960.2
37.5°	12039.3	12166.3	11987.0	11340.7	10191.9	8686.2	7515.0	7169.4	7417.9	7529.9
40°	12885.5	13079.8	13066.7	12663.2	11607.8	9855.6	8387.4	7817.6	8097.8	8219.2
42.5°	13573.0	13741.1	13886.8	13866.2	13085.4	11183.8	9412.9	8660.1	8873.0	9013.1
45°	14047.4	14226.8	14540.6	14878.7	14507.0	12605.3	10587.9	9659.5	9853.7	10064.8
47.5°	14471.5	14675.1	15082.3	15618.4	15713.7	14032.5	11874.9	10823.2	11000.7	11219.3
50°	14508.8	14684.4	15315.8	16076.1	16571.1	15403.6	13257.3	12129.0	12295.2	12528.7
52.5°	13606.6	13883.0	14985.2	16063.0	16965.3	16550.6	14630.2	13487.0	13673.8	13954.0
55°	10561.7	10967.1	14015.7	15562.4	16825.2	17292.2	15936.0	14931.0	15170.1	15463.4
57.5°	9097.2	9274.7	11125.9	14650.8	16186.3	17484.6	17038.1	16389.9	16774.7	17096.0
60°	8176.3	8323.8	9418.5	13233.0	15345.7	17180.1	17889.9	17749.8	18414.8	18797.8
62.5°	7190.0	7330.1	8325.7	11049.3	14269.7	16673.8	18427.9	19005.1	20096.0	20514.5
65°	6211.1	6330.7	7285.2	9284.0	12902.3	16167.6	18706.2	20090.4	21652.1	22085.5
67.5°	5120.2	5219.2	6121.5	7832.6	11239.8	15474.6	18844.5	20944.1	23006.4	23378.1
70°	3694.9	3771.5	4703.6	6194.3	9153.2	14282.8	18788.4	21549.3	23708.8	24005.8
72.5°	1746.6	1815.7	2910.4	4021.8	6465.2	11962.7	17654.6	21069.3	22995.2	22847.6
75°	932.1	991.9	1671.9	2206.1	3414.7	8200.6	14447.2	18149.6	19309.6	18592.3
77.5°	631.4	678.1	1034.9	1324.4	1559.8	3892.9	9285.9	12566.1	12089.8	10905.4
80°	500.6	549.2	848.1	896.6	754.7	1406.6	3836.9	5817.0	4178.7	3341.9
82.5°	384.8	439.0	713.6	650.1	411.0	577.2	1117.1	1840.0	1070.4	814.5
85°	235.4	293.3	560.4	414.7	231.6	263.4	379.2	511.8	326.9	272.7
87.5°	119.6	168.1	283.9	151.3	104.6	61.6	100.9	100.9	85.9	74.7
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°
5088.5	0°	5088.5	5088.5	5088.5	5088.5	5088.5	5088.5	5088.5	5088.5	5088.5	5088.5
5062.3	2.5°	5107.1	5144.5	5208.0	5267.8	5314.5	5359.3	5404.1	5428.4	5435.9	5465.8
5090.3	5°	5166.9	5236.0	5359.3	5475.1	5548.0	5592.8	5624.6	5643.3	5647.0	5656.3
5166.9	7.5°	5277.1	5387.3	5559.2	5675.0	5729.2	5725.4	5712.4	5665.7	5647.0	5630.2
5279.0	10°	5432.2	5577.9	5789.0	5869.3	5835.7	5746.0	5630.2	5493.8	5430.3	5368.7
5432.2	12.5°	5624.6	5809.5	6016.9	6013.1	5846.9	5617.1	5348.1	5138.9	5006.3	4911.0
5620.8	15°	5858.1	6071.0	6229.8	6102.8	5738.5	5325.7	4931.5	4658.8	4539.3	4434.7
5811.4	17.5°	6099.0	6326.9	6399.8	6074.8	5465.8	4894.2	4447.7	4232.9	4115.2	4059.2
6016.9	20°	6334.4	6560.4	6500.7	5914.1	5051.1	4404.8	4006.9	3889.2	3864.9	3878.0
6216.7	22.5°	6582.9	6784.6	6521.2	5604.0	4522.4	3904.1	3685.6	3689.3	3743.5	3782.7
6425.9	25°	6836.9	6973.3	6467.0	5155.7	3954.6	3536.1	3482.0	3541.7	3648.2	3724.8
6661.3	27.5°	7081.6	7141.4	6349.4	4600.9	3467.0	3272.8	3282.1	3405.4	3566.0	3672.5
6947.1	30°	7358.1	7290.8	6123.3	3977.0	3128.9	3046.7	3125.2	3269.0	3429.7	3524.9
7307.7	32.5°	7670.0	7419.7	5764.7	3399.8	2889.8	2865.5	2994.4	3087.8	3158.8	3186.8
7785.9	35°	8058.6	7600.9	5305.1	2994.4	2675.0	2732.9	2856.2	2809.5	2781.5	2766.5
8428.5	37.5°	8563.0	7845.6	4767.2	2731.0	2501.3	2637.6	2688.1	2542.4	2432.1	2378.0
9207.4	40°	9170.1	8204.3	4249.7	2527.4	2391.1	2555.4	2467.6	2292.0	2151.9	2075.4
10083.5	42.5°	9844.4	8579.8	3814.5	2374.2	2329.4	2488.2	2305.1	2095.9	1869.9	1845.6
11127.7	45°	10552.4	8966.4	3517.5	2256.6	2299.5	2430.3	2211.7	1873.6	1713.0	1812.0
12175.7	47.5°	11260.4	9321.4	3338.1	2168.8	2284.6	2364.9	2129.5	1750.3	1636.4	1780.2
13298.4	50°	12048.7	9638.9	3257.8	2105.2	2267.8	2338.7	2006.2	1718.6	1556.1	1651.3
14460.3	52.5°	12831.4	9885.5	3198.0	2041.7	2243.5	2318.2	1946.5	1681.2	1458.9	1464.5
15629.6	55°	13612.2	10046.2	3132.7	1957.7	2189.3	2273.4	1940.9	1640.1	1386.1	1359.9
16866.3	57.5°	14445.3	10137.7	3052.3	1864.3	2095.9	2159.4	1935.3	1608.4	1363.6	1320.7
18130.9	60°	15293.4	10272.2	2947.7	1750.3	1970.7	2023.1	1922.2	1597.1	1350.6	1277.7
19322.7	62.5°	16053.7	10318.9	2822.6	1642.0	1810.1	1888.6	1894.2	1587.8	1315.1	1189.9
20312.7	65°	16552.4	10117.1	2604.0	1518.7	1636.4	1750.3	1840.0	1556.1	1251.6	1126.4
20802.1	67.5°	16531.9	9541.8	2262.2	1359.9	1468.3	1597.1	1761.5	1501.9	1175.0	1048.0
20432.3	70°	15762.3	8406.0	1828.8	1175.0	1283.3	1432.8	1660.7	1421.6	1083.4	962.0
18168.3	72.5°	13518.8	6579.1	1328.2	958.3	1068.5	1262.8	1529.9	1324.4	990.0	885.4
13427.2	75°	9657.6	4163.8	900.4	736.0	831.3	1070.4	1367.4	1210.5	904.1	889.2
6724.8	77.5°	4933.4	1989.4	595.9	538.0	579.1	844.3	1148.8	1081.6	917.2	734.1
1912.8	80°	1604.6	734.1	375.5	366.1	384.8	562.3	889.2	887.3	694.9	498.8
463.3	82.5°	511.8	315.7	244.7	235.4	226.0	353.1	620.2	702.4	468.9	315.7
166.3	85°	203.6	188.7	143.8	132.6	95.3	166.3	325.0	467.0	349.3	227.9
43.0	87.5°	74.7	74.7	39.2	28.0	20.5	56.0	87.8	140.1	199.9	117.7
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>
5088.5
5482.6
5671.3
5633.9
5350.0
4888.6
4423.4
4076.0
3872.4
3792.1
3745.4
3698.7
3547.3
3201.8
2781.5
2391.1
2081.0
1869.9
1864.3
1847.5
1722.3
1503.7
1378.6
1326.3
1283.3
1189.9
1126.4
1053.6
973.2
879.8
838.7
653.8
440.9
313.8
233.5
115.8
0.0

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