

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: P957595

Luminaire Tested: **GALN-SB9D-927-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957595  
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-SB9D-927-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

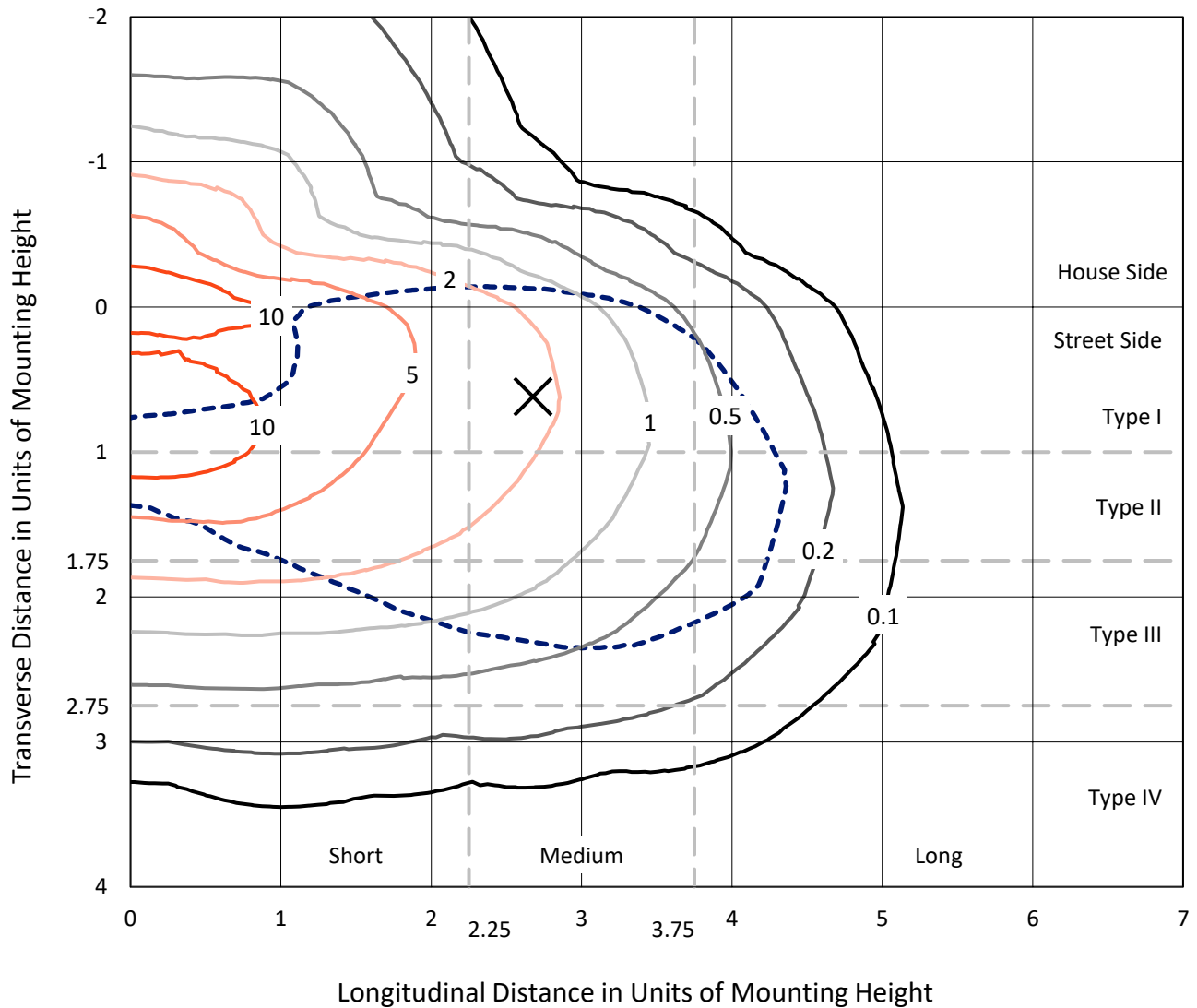
Lumens per Lamp: N/A  
Luminaire Lumens: 57919 lumens  
Efficiency: N/A  
Efficacy: 88.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

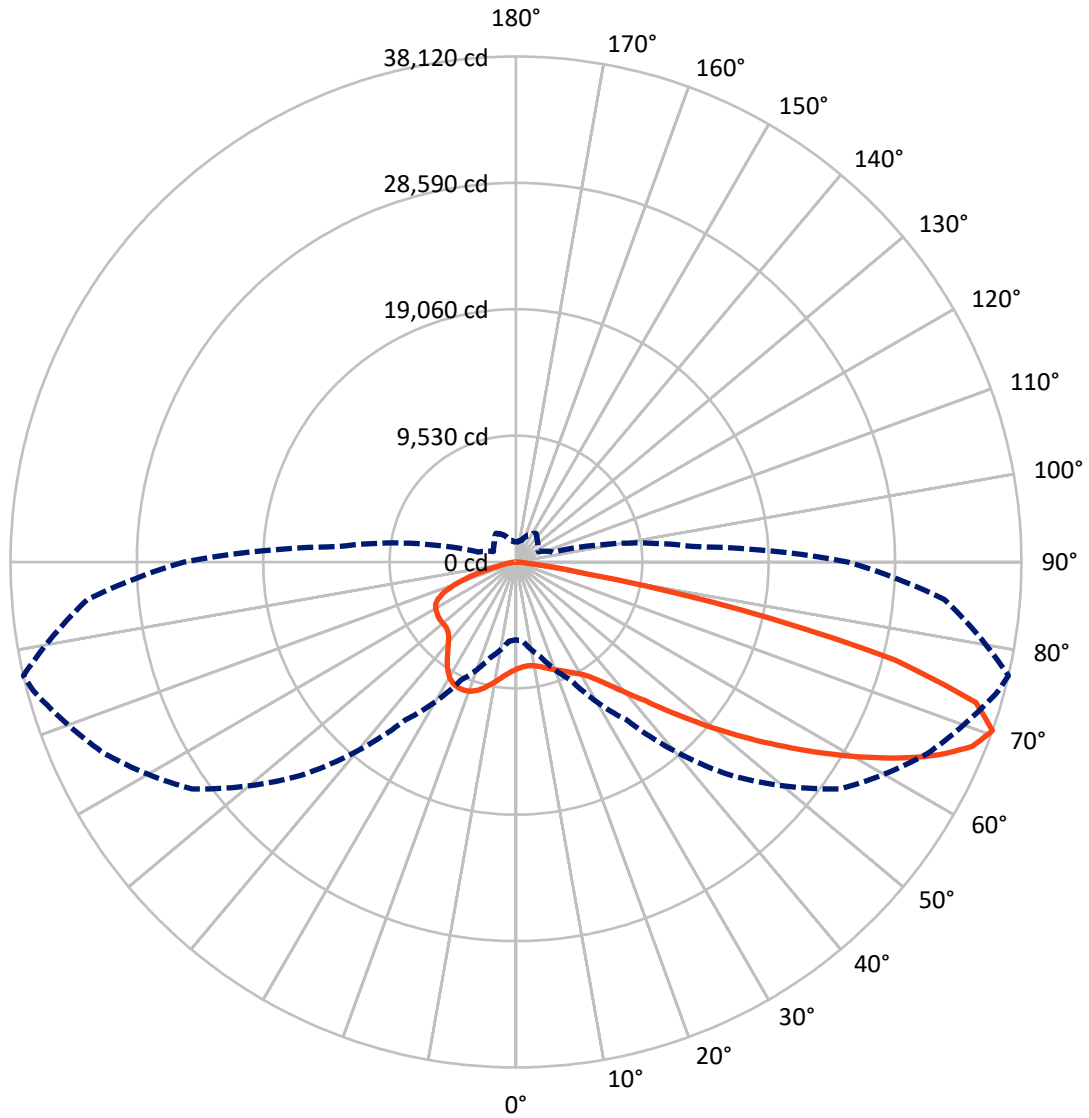
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 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	12683.4	0.0	12683.4
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	45235.6	0.0	45235.6
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	57919.0	0.0	57919.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	770.6	1.3
10°-20°	2224.1	3.8
20°-30°	3803.6	6.6
30°-40°	6116.5	10.6
40°-50°	9549.5	16.5
50°-60°	12755.9	22.0
60°-70°	13595.8	23.5
70°-80°	8369.5	14.5
80°-90°	733.4	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°	57919.0	100.0
0°-180°	57919.0	100.0



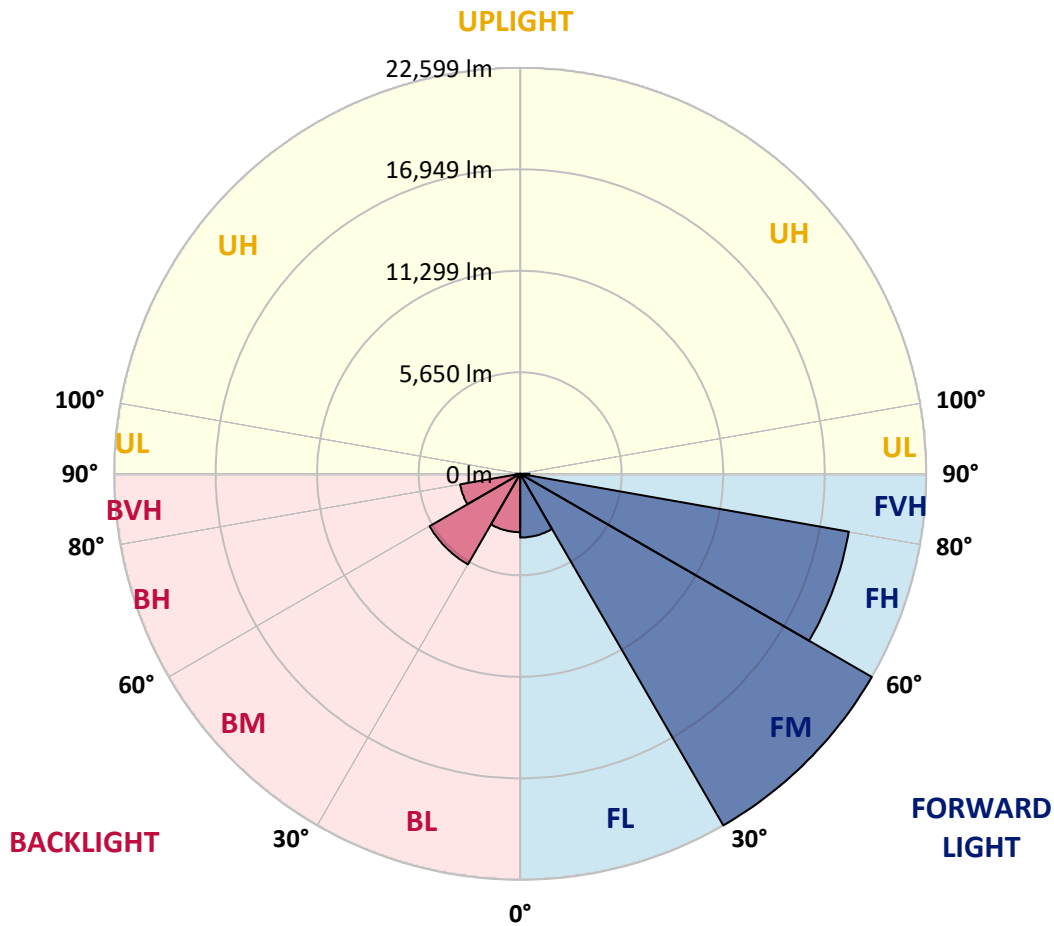
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3548.5	6.1			
FM (30°-60°)	22598.7	39.0			
FH (60°-80°)	18575.6	32.1			G5
FVH (80°-90°)	512.8	0.9			G4/750
BL (0°-30°)	3249.9	5.6	B4/5000		
BM (30°-60°)	5823.2	10.1	B4/8500		
BH (60°-80°)	3389.7	5.9	B4/5000		G4/5000
BVH (80°-90°)	220.6	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 III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	8080.2	8080.2	8080.2	8080.2	8080.2	8080.2	8080.2	8080.2	8080.2	8080.2
2.5°	7448.4	7445.4	7484.0	7495.9	7567.1	7617.5	7712.4	7813.3	7943.8	7958.6
5°	7018.3	7018.3	7062.8	7110.2	7202.2	7303.1	7448.4	7623.4	7848.9	7884.5
7.5°	6653.4	6677.2	6715.7	6807.7	6914.5	7059.8	7282.3	7531.5	7828.1	7884.5
10°	6359.8	6386.5	6433.9	6508.1	6668.3	6870.0	7160.7	7481.0	7878.5	7967.5
12.5°	6267.8	6294.5	6321.2	6377.6	6525.9	6763.2	7110.2	7504.8	8000.1	8089.1
15°	6481.4	6514.0	6493.3	6478.4	6555.5	6772.1	7134.0	7590.8	8151.4	8279.0
17.5°	6973.8	6985.7	6938.2	6798.8	6786.9	6902.6	7246.7	7709.4	8341.3	8480.7
20°	7768.8	7748.0	7650.1	7374.2	7217.0	7193.3	7439.5	7887.4	8537.0	8685.4
22.5°	8848.5	8824.8	8629.0	8192.9	7842.9	7611.6	7718.3	8118.8	8756.5	8922.7
25°	10195.2	10162.6	9874.8	9281.6	8738.7	8166.3	8098.0	8424.3	9026.5	9180.7
27.5°	11767.4	11740.7	11429.2	10646.1	9863.0	8925.6	8569.7	8783.2	9308.3	9483.3
30°	13458.1	13535.3	12983.5	12141.1	11150.4	9916.4	9204.5	9225.2	9673.1	9830.4
32.5°	15445.6	15579.1	14914.6	13846.7	12494.1	10993.1	10005.4	9842.2	10204.1	10334.6
35°	17415.2	17566.5	17014.8	15834.2	14276.9	12262.7	10841.9	10551.2	10910.1	11052.5
37.5°	19117.9	19319.6	19034.8	18008.5	16184.2	13793.3	11933.5	11384.7	11779.2	11957.2
40°	20461.6	20770.1	20749.3	20108.6	18432.7	15650.3	13318.7	12414.0	12859.0	13051.8
42.5°	21553.2	21820.2	22051.5	22018.9	20779.0	17759.3	14947.2	13751.8	14090.0	14312.4
45°	22306.7	22591.4	23089.8	23626.7	23036.4	20016.7	16813.0	15338.8	15647.3	15982.5
47.5°	22980.0	23303.3	23950.0	24801.3	24952.6	22282.9	18856.8	17186.8	17468.6	17815.7
50°	23039.3	23318.2	24320.8	25528.1	26314.1	24460.2	21051.9	19260.3	19524.3	19895.0
52.5°	21606.6	22045.6	23795.7	25507.3	26940.0	26281.5	23232.1	21416.8	21713.4	22158.3
55°	16771.5	17415.2	22256.2	24712.3	26717.6	27459.1	25305.6	23709.7	24089.4	24555.1
57.5°	14445.9	14727.7	17667.3	23264.8	25703.1	27764.7	27055.7	26026.4	26637.5	27147.7
60°	12983.5	13217.9	14956.1	21013.3	24368.2	27281.2	28408.4	28185.9	29241.9	29850.0
62.5°	11417.3	11639.8	13220.8	17545.7	22659.6	26477.3	29262.6	30179.2	31911.6	32576.0
65°	9863.0	10052.8	11568.6	14742.6	20488.3	25673.4	29704.6	31902.7	34382.5	35070.7
67.5°	8130.7	8287.9	9720.6	12437.7	17848.3	24572.9	29924.1	33258.3	36533.1	37123.4
70°	5867.4	5989.0	7469.2	9836.3	14534.9	22680.4	29835.1	34219.4	37648.4	38120.1
72.5°	2773.5	2883.3	4621.5	6386.5	10266.4	18996.3	28034.6	33457.0	36515.3	36280.9
75°	1480.2	1575.1	2654.8	3503.2	5422.4	13022.1	22941.4	28820.7	30662.7	29523.7
77.5°	1002.6	1076.8	1643.3	2103.1	2476.9	6181.8	14745.5	19954.4	19198.0	17317.3
80°	795.0	872.1	1346.7	1423.8	1198.4	2233.6	6092.8	9237.1	6635.6	5306.7
82.5°	611.1	697.1	1133.1	1032.3	652.6	916.6	1773.9	2921.8	1699.7	1293.3
85°	373.8	465.7	889.9	658.5	367.8	418.2	602.2	812.8	519.1	433.1
87.5°	189.8	267.0	450.9	240.3	166.1	97.9	160.2	160.2	136.5	118.7
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°
8080.2	0°	8080.2	8080.2	8080.2	8080.2	8080.2	8080.2	8080.2	8080.2	8080.2	8080.2
8038.7	2.5°	8109.9	8169.2	8270.1	8365.0	8439.2	8510.3	8581.5	8620.1	8632.0	8679.4
8083.2	5°	8204.8	8314.6	8510.3	8694.3	8809.9	8881.1	8931.6	8961.2	8967.2	8982.0
8204.8	7.5°	8379.8	8554.8	8827.7	9011.7	9097.7	9091.7	9071.0	8996.8	8967.2	8940.5
8382.8	10°	8626.0	8857.4	9192.6	9320.1	9266.8	9124.4	8940.5	8723.9	8623.1	8525.2
8626.0	12.5°	8931.6	9225.2	9554.5	9548.6	9284.6	8919.7	8492.5	8160.3	7949.7	7798.4
8925.6	15°	9302.3	9640.5	9892.6	9690.9	9112.5	8457.0	7831.1	7398.0	7208.1	7042.0
9228.2	17.5°	9685.0	10046.9	10162.6	9646.4	8679.4	7771.7	7062.8	6721.7	6534.8	6445.8
9554.5	20°	10058.8	10417.7	10322.8	9391.3	8020.9	6994.6	6362.7	6175.9	6137.3	6158.1
9871.9	22.5°	10453.3	10773.6	10355.4	8898.9	7181.4	6199.6	5852.5	5858.5	5944.5	6006.8
10204.1	25°	10856.7	11073.2	10269.4	8187.0	6279.7	5615.2	5529.2	5624.1	5793.2	5914.8
10577.9	27.5°	11245.3	11340.2	10082.5	7306.0	5505.5	5197.0	5211.8	5407.6	5662.7	5831.8
11031.7	30°	11684.3	11577.5	9723.6	6315.3	4968.6	4838.1	4962.6	5191.0	5446.1	5597.4
11604.2	32.5°	12179.7	11782.2	9154.0	5398.7	4588.9	4550.3	4755.0	4903.3	5016.0	5060.5
12363.6	35°	12796.7	12069.9	8424.3	4755.0	4247.8	4339.7	4535.5	4461.3	4416.8	4393.1
13384.0	37.5°	13597.6	12458.5	7570.0	4336.7	3971.9	4188.4	4268.5	4037.1	3862.1	3776.1
14620.9	40°	14561.6	13028.0	6748.4	4013.4	3796.9	4057.9	3918.5	3639.7	3417.2	3295.6
16012.1	42.5°	15632.5	13624.3	6057.2	3770.2	3699.0	3951.1	3660.4	3328.2	2969.3	2930.7
17670.3	45°	16756.7	14238.3	5585.6	3583.3	3651.5	3859.2	3512.1	2975.2	2720.1	2877.3
19334.4	47.5°	17880.9	14801.9	5300.8	3443.9	3627.8	3755.3	3381.6	2779.4	2598.5	2826.9
21117.2	50°	19132.7	15306.2	5173.2	3343.0	3601.1	3713.8	3185.8	2729.0	2470.9	2622.2
22962.2	52.5°	20375.6	15697.7	5078.3	3242.2	3562.5	3681.2	3090.9	2669.7	2316.7	2325.6
24819.1	55°	21615.5	15952.8	4974.5	3108.7	3476.5	3610.0	3082.0	2604.4	2201.0	2159.5
26782.8	57.5°	22938.5	16098.2	4847.0	2960.4	3328.2	3429.1	3073.1	2554.0	2165.4	2097.2
28791.0	60°	24285.2	16311.7	4680.8	2779.4	3129.5	3212.5	3052.3	2536.2	2144.6	2029.0
30683.5	62.5°	25492.5	16385.9	4482.1	2607.4	2874.4	2998.9	3007.8	2521.4	2088.3	1889.5
32255.7	65°	26284.5	16065.5	4135.0	2411.6	2598.5	2779.4	2921.8	2470.9	1987.4	1788.7
33032.8	67.5°	26251.8	15151.9	3592.2	2159.5	2331.5	2536.2	2797.2	2384.9	1865.8	1664.1
32445.5	70°	25029.7	13348.4	2904.0	1865.8	2037.9	2275.2	2637.0	2257.4	1720.5	1527.6
28850.3	72.5°	21467.2	10447.3	2109.0	1521.7	1696.7	2005.2	2429.4	2103.1	1572.1	1406.0
21321.8	75°	15335.8	6611.9	1429.8	1168.7	1320.0	1699.7	2171.3	1922.2	1435.7	1412.0
10678.7	77.5°	7834.0	3159.1	946.3	854.3	919.6	1340.8	1824.3	1717.5	1456.5	1165.8
3037.5	80°	2548.1	1165.8	596.2	581.4	611.1	892.9	1412.0	1409.0	1103.5	792.0
735.6	82.5°	812.8	501.3	388.6	373.8	358.9	560.6	984.8	1115.3	744.5	501.3
264.0	85°	323.3	299.6	228.4	210.6	151.3	264.0	516.1	741.6	554.7	361.9
68.2	87.5°	118.7	118.7	62.3	44.5	32.6	89.0	139.4	222.5	317.4	186.9
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>
8080.2
8706.1
9005.7
8946.4
8495.5
7762.8
7024.2
6472.5
6149.2
6021.6
5947.5
5873.3
5633.0
5084.3
4416.8
3796.9
3304.5
2969.3
2960.4
2933.7
2734.9
2387.9
2189.1
2106.1
2037.9
1889.5
1788.7
1673.0
1545.4
1397.1
1331.9
1038.2
700.0
498.3
370.8
183.9
0.0

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