

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: P942529

Luminaire Tested: **GALN-SB6C-827-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942529
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-SB6C-827-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39032 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

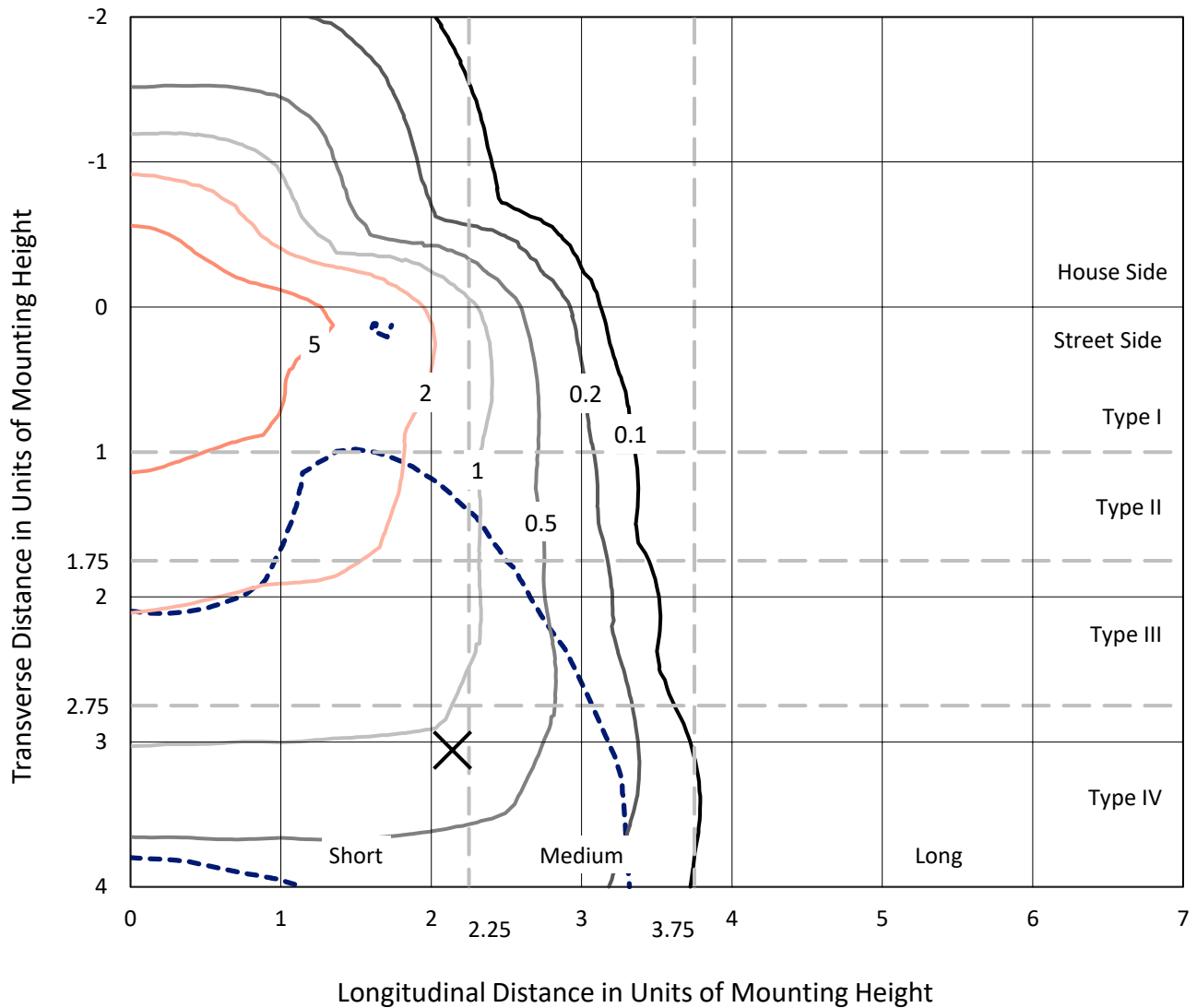
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

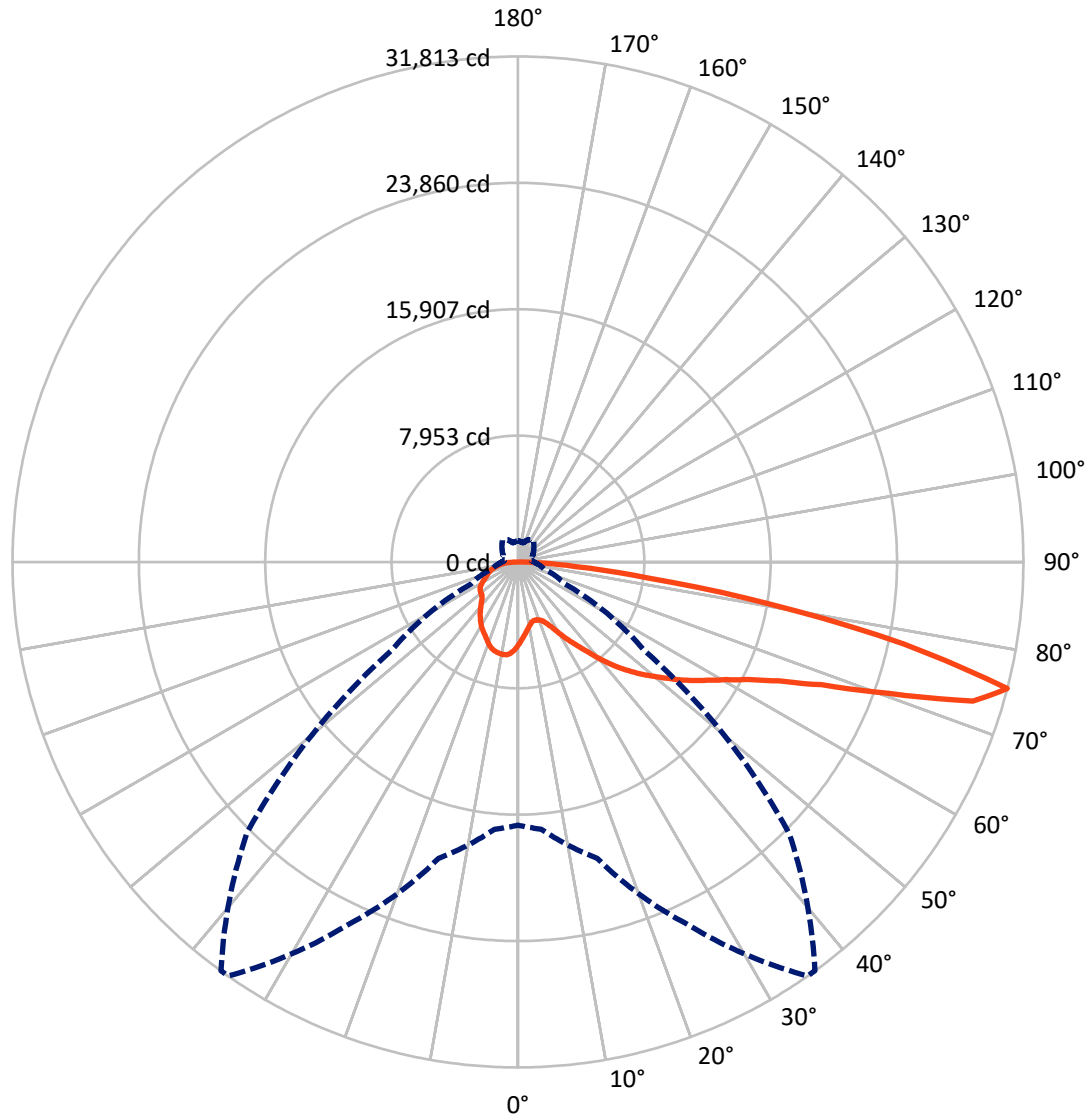
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9288.6	0.0	9288.6
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	29743.4	0.0	29743.4
	% Fixture	76.2	0.0	76.2
Total	Lumens	39032.0	0.0	39032.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	492.5	1.3
10°-20°	1420.5	3.6
20°-30°	2385.3	6.1
30°-40°	3707.1	9.5
40°-50°	5502.4	14.1
50°-60°	7596.3	19.5
60°-70°	9216.1	23.6
70°-80°	7616.4	19.5
80°-90°	1095.5	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°	39032.0	100.0
0°-180°	39032.0	100.0

Coefficient of Utilization



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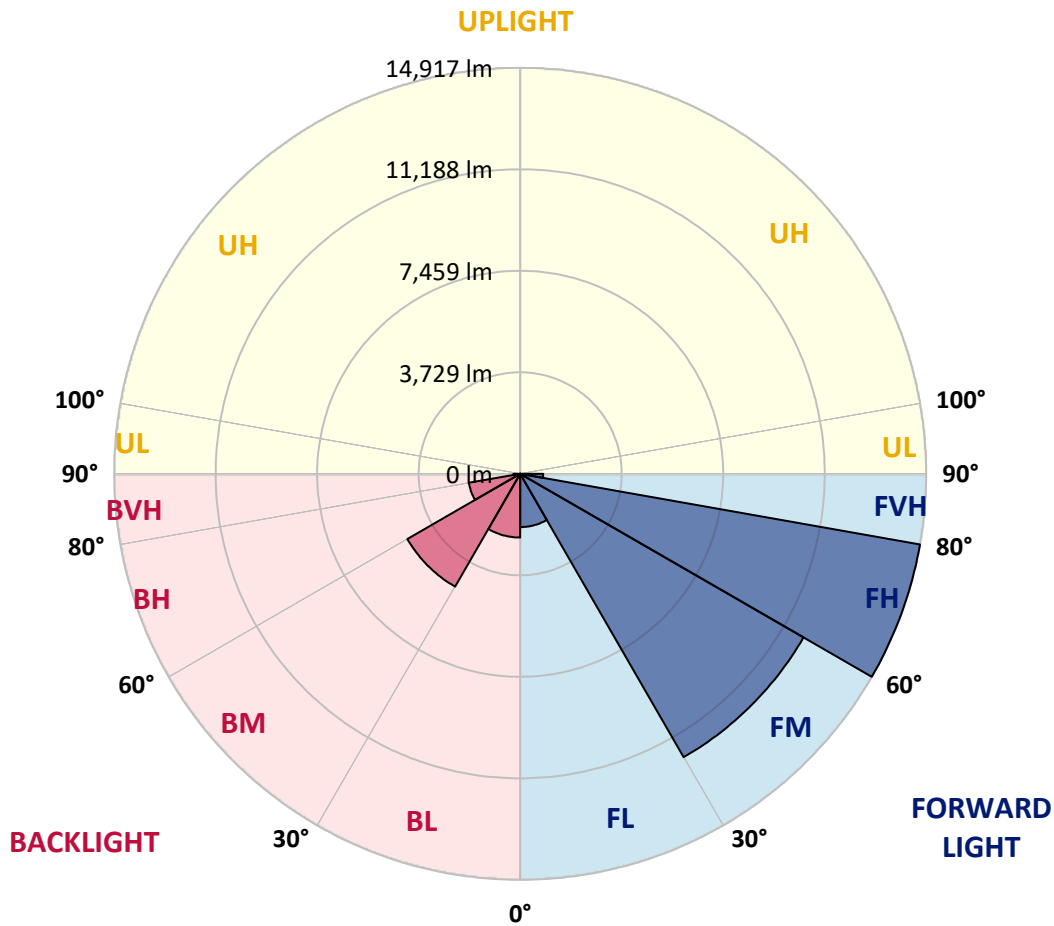
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1957.4	5.0			
FM (30°-60°)	12019.7	30.8			
FH (60°-80°)	14917.4	38.2			G5
FVH (80°-90°)	848.8	2.2			G5
BL (0°-30°)	2340.9	6.0	B3/2500		
BM (30°-60°)	4786.1	12.3	B3/5000		
BH (60°-80°)	1915.0	4.9	B3/2500		G3/2500
BVH (80°-90°)	246.7	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	5201.3	5201.3	5201.3	5201.3	5201.3	5201.3	5201.3	5201.3	5201.3	5201.3
2.5°	4796.1	4825.7	4838.3	4832.0	4863.7	4859.4	4903.8	4958.6	5034.6	5108.4
5°	4426.9	4458.5	4486.0	4511.3	4572.5	4591.5	4661.1	4766.6	4905.9	5047.2
7.5°	4083.0	4110.4	4152.6	4199.0	4302.4	4321.4	4437.4	4602.0	4796.1	5002.9
10°	3802.3	3829.7	3874.1	3926.8	4055.5	4078.7	4226.4	4445.9	4699.1	4960.7
12.5°	3682.0	3690.5	3715.8	3768.6	3880.4	3895.2	4057.6	4308.7	4604.1	4929.1
15°	3675.7	3692.6	3694.7	3722.1	3815.0	3821.3	3971.1	4220.1	4545.1	4922.8
17.5°	3739.0	3751.7	3732.7	3749.6	3827.6	3838.2	3956.3	4177.9	4526.1	4950.2
20°	3907.8	3918.4	3861.4	3838.2	3895.2	3903.6	4019.6	4205.3	4545.1	5007.2
22.5°	4266.5	4272.9	4133.6	4038.6	4042.9	4047.1	4148.4	4317.2	4618.9	5110.5
25°	4825.7	4821.5	4599.9	4416.3	4310.8	4287.6	4355.1	4498.6	4743.4	5247.7
27.5°	5479.8	5448.2	5226.6	4952.3	4722.3	4688.5	4673.8	4735.0	4920.6	5429.2
30°	6218.3	6188.8	5950.3	5591.6	5273.0	5218.2	5078.9	5047.2	5184.4	5676.0
32.5°	7028.6	7009.6	6724.7	6290.1	5863.8	5800.5	5566.3	5481.9	5589.5	6049.5
35°	7708.0	7691.1	7454.8	7007.5	6486.3	6408.2	6169.8	6074.8	6129.7	6528.5
37.5°	8322.0	8313.6	8111.0	7758.7	7220.6	7125.6	6857.7	6826.0	6815.5	7159.4
40°	8891.8	8870.7	8659.7	8474.0	8075.2	7988.7	7752.3	7724.9	7644.7	7935.9
42.5°	9522.7	9467.8	9161.8	9075.3	8967.7	8896.0	8754.6	8758.8	8581.6	8811.6
45°	10037.5	10005.9	9691.5	9640.8	9756.9	9727.3	9849.7	9881.4	9537.4	9729.4
47.5°	10590.4	10560.8	10294.9	10259.1	10573.5	10581.9	11014.5	11025.0	10470.1	10683.2
50°	11271.9	11229.7	10965.9	11010.3	11362.6	11394.3	12185.5	12113.8	11328.9	11651.7
52.5°	11721.3	11746.7	11689.7	11761.4	12242.5	12272.1	13337.6	13154.1	12179.2	12607.6
55°	12052.6	12103.3	12280.5	12445.1	13170.9	13200.5	14424.3	14143.7	12884.0	13493.8
57.5°	12478.8	12407.1	12738.4	13059.1	14052.9	14131.0	15481.5	15097.4	13508.6	14257.6
60°	13090.8	13040.1	13297.5	13772.3	15040.5	15164.9	16599.8	15956.2	13966.4	14863.2
62.5°	14331.5	14204.9	14245.0	14664.9	16285.4	16450.0	17861.6	16705.3	14194.3	15099.5
65°	16186.2	15968.9	15766.3	16057.5	18038.8	18201.3	19285.9	17294.0	14109.9	14641.7
67.5°	18522.0	18306.8	18057.8	18332.1	20621.5	20750.3	21043.5	17625.3	13445.3	12877.6
70°	20448.5	20368.3	20665.8	21794.7	24746.7	24750.9	23297.1	17351.0	11624.3	9130.2
72.5°	20193.2	20144.7	21712.4	25202.5	29945.9	29834.0	25430.3	15274.7	7830.4	4118.8
75°	16566.0	16880.4	19309.1	25141.3	31813.3	31798.5	24124.2	9710.5	3238.9	1707.0
77.5°	8883.3	9381.3	12535.8	18562.1	24835.3	25208.8	16960.6	3397.2	1390.5	1093.0
80°	2897.1	3331.8	4996.6	9450.9	16137.7	16068.0	7269.1	1333.6	951.6	774.4
82.5°	1230.2	1280.8	2232.4	4462.8	8282.0	8153.2	2314.7	765.9	668.9	529.6
85°	481.1	538.1	985.4	2063.6	3587.1	3509.0	835.6	379.8	428.3	346.0
87.5°	158.3	192.0	352.4	706.9	1116.2	1076.1	204.7	130.8	185.7	158.3
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°
5201.3	0°	5201.3	5201.3	5201.3	5201.3	5201.3	5201.3	5201.3	5201.3	5201.3	5201.3
5216.0	2.5°	5245.6	5279.3	5319.4	5378.5	5429.2	5471.4	5515.7	5543.1	5553.7	5585.3
5224.5	5°	5283.6	5357.4	5456.6	5553.7	5648.6	5705.6	5756.2	5781.5	5804.8	5821.6
5247.7	7.5°	5346.9	5441.8	5598.0	5724.6	5804.8	5851.2	5884.9	5876.5	5884.9	5889.2
5273.0	10°	5401.7	5534.7	5720.4	5840.6	5901.8	5903.9	5895.5	5865.9	5851.2	5853.3
5311.0	12.5°	5467.1	5614.8	5815.3	5916.6	5933.5	5887.0	5851.2	5800.5	5781.5	5773.1
5368.0	15°	5555.8	5724.6	5918.7	5956.7	5914.5	5855.4	5794.2	5711.9	5669.7	5635.9
5465.0	17.5°	5663.4	5849.1	5998.9	5971.4	5880.7	5783.7	5684.5	5560.0	5473.5	5437.6
5598.0	20°	5813.2	5979.9	6060.1	5939.8	5802.6	5654.9	5486.1	5334.2	5254.0	5218.2
5766.8	22.5°	5994.7	6155.0	6119.2	5884.9	5690.8	5454.5	5243.5	5131.6	5091.6	5066.2
5984.1	25°	6212.0	6349.1	6161.4	5804.8	5507.2	5188.6	5026.1	4990.3	4971.3	4952.3
6250.0	27.5°	6494.7	6568.6	6193.0	5686.6	5220.3	4905.9	4846.8	4853.1	4846.8	4815.1
6619.2	30°	6868.2	6853.4	6222.5	5494.6	4891.1	4650.6	4654.8	4682.2	4686.4	4665.3
7134.1	32.5°	7359.9	7210.0	6237.3	5245.6	4576.7	4426.9	4431.1	4460.6	4481.8	4445.9
7807.2	35°	7954.9	7625.7	6214.1	4933.3	4334.0	4213.8	4182.1	4190.6	4196.9	4163.1
8623.8	37.5°	8649.1	8092.0	6110.7	4587.3	4133.6	4004.9	3937.4	3880.4	3846.6	3815.0
9548.0	40°	9410.8	8600.6	5920.8	4249.6	3909.9	3783.3	3682.0	3574.4	3460.5	3418.3
10527.0	42.5°	10208.4	9123.9	5690.8	3926.8	3652.5	3549.1	3441.5	3285.4	3114.4	3027.9
11544.1	45°	11035.6	9659.8	5465.0	3608.2	3388.7	3344.4	3219.9	3032.1	2846.5	2736.7
12563.2	47.5°	11845.8	10166.2	5133.8	3287.5	3141.9	3190.4	3093.3	2920.3	2713.5	2540.5
13574.0	50°	12620.2	10641.0	4591.5	2962.5	2941.4	3144.0	3051.1	2802.1	2565.8	2344.3
14565.7	52.5°	13388.3	11025.0	3897.3	2667.1	2833.8	3131.3	2996.3	2722.0	2432.9	2200.8
15498.3	55°	14040.3	11223.4	3228.4	2413.9	2677.7	3023.7	2930.9	2627.0	2245.1	1998.2
16137.7	57.5°	14411.7	11063.0	2671.3	2164.9	2462.4	2846.5	2819.0	2424.4	2021.4	1831.5
16262.2	60°	14251.3	10413.1	2215.6	1947.6	2257.8	2654.4	2624.9	2224.0	1850.5	1671.2
15595.4	62.5°	13367.2	9174.5	1854.7	1757.7	2072.1	2458.2	2430.8	2070.0	1719.7	1546.7
13825.1	65°	11586.3	7463.3	1574.1	1599.4	1884.3	2221.9	2262.0	1941.2	1616.3	1447.5
10695.9	67.5°	8836.9	5406.0	1354.7	1462.3	1700.7	1989.8	2105.8	1848.4	1529.8	1369.4
6188.8	70°	5036.7	3070.1	1169.0	1329.3	1538.2	1774.6	1985.6	1774.6	1436.9	1304.0
2318.9	72.5°	1909.6	1409.5	1010.7	1196.4	1382.1	1593.1	1852.6	1658.5	1329.3	1230.2
1198.5	75°	1019.2	858.8	850.4	1040.3	1202.7	1415.8	1685.9	1544.6	1249.2	1299.8
829.3	77.5°	694.2	607.7	711.1	890.4	1006.5	1219.6	1508.7	1371.5	1082.5	1078.2
573.9	80°	481.1	430.5	578.2	717.4	778.6	1025.5	1316.7	1177.4	882.0	822.9
354.5	82.5°	289.1	280.6	432.6	536.0	550.7	791.3	1090.9	987.5	721.6	628.8
211.0	85°	158.3	166.7	276.4	314.4	320.7	552.8	854.6	763.8	554.9	466.3
76.0	87.5°	44.3	57.0	101.3	124.5	154.0	287.0	508.5	453.7	278.5	194.1
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>
5201.3
5583.2
5825.9
5895.5
5857.5
5768.9
5646.5
5439.7
5213.9
5070.5
4952.3
4821.5
4675.9
4462.8
4186.3
3836.1
3437.3
3038.5
2728.3
2521.5
2325.3
2175.5
1977.1
1806.2
1645.8
1519.2
1420.1
1344.1
1287.1
1213.3
1342.0
993.8
787.0
633.0
470.5
194.1
0.0

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