

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: P942749

Luminaire Tested: **GALN-SB6D-927-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942749
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-SB6D-927-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 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: 37125 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

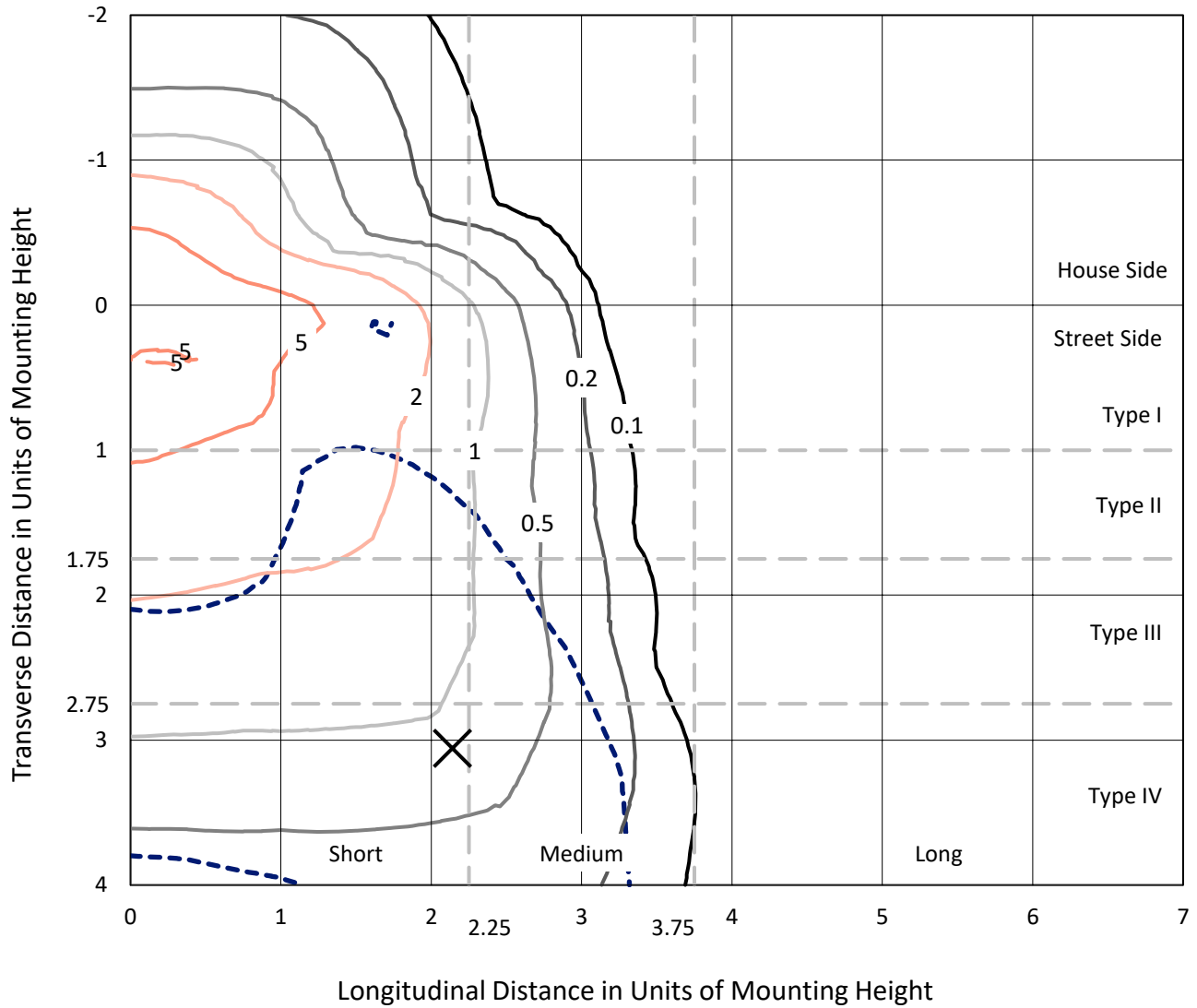
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

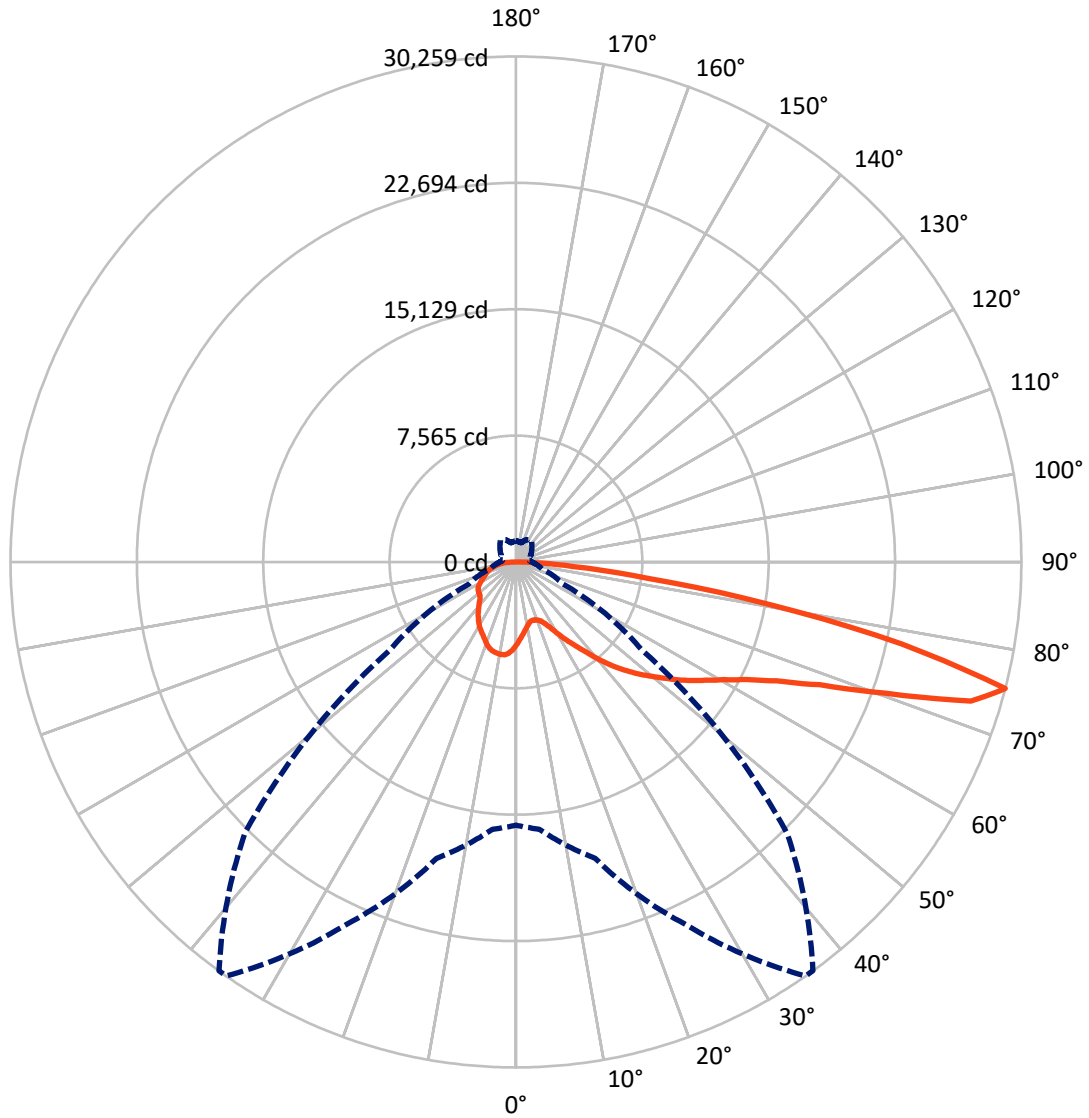
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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	8834.8	0.0	8834.8
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	28290.2	0.0	28290.2
	% Fixture	76.2	0.0	76.2
Total	Lumens	37125.0	0.0	37125.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	468.4	1.3
10°-20°	1351.1	3.6
20°-30°	2268.8	6.1
30°-40°	3526.0	9.5
40°-50°	5233.5	14.1
50°-60°	7225.2	19.5
60°-70°	8765.8	23.6
70°-80°	7244.3	19.5
80°-90°	1041.9	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°	37125.0	100.0
0°-180°	37125.0	100.0

Coefficient of Utilization



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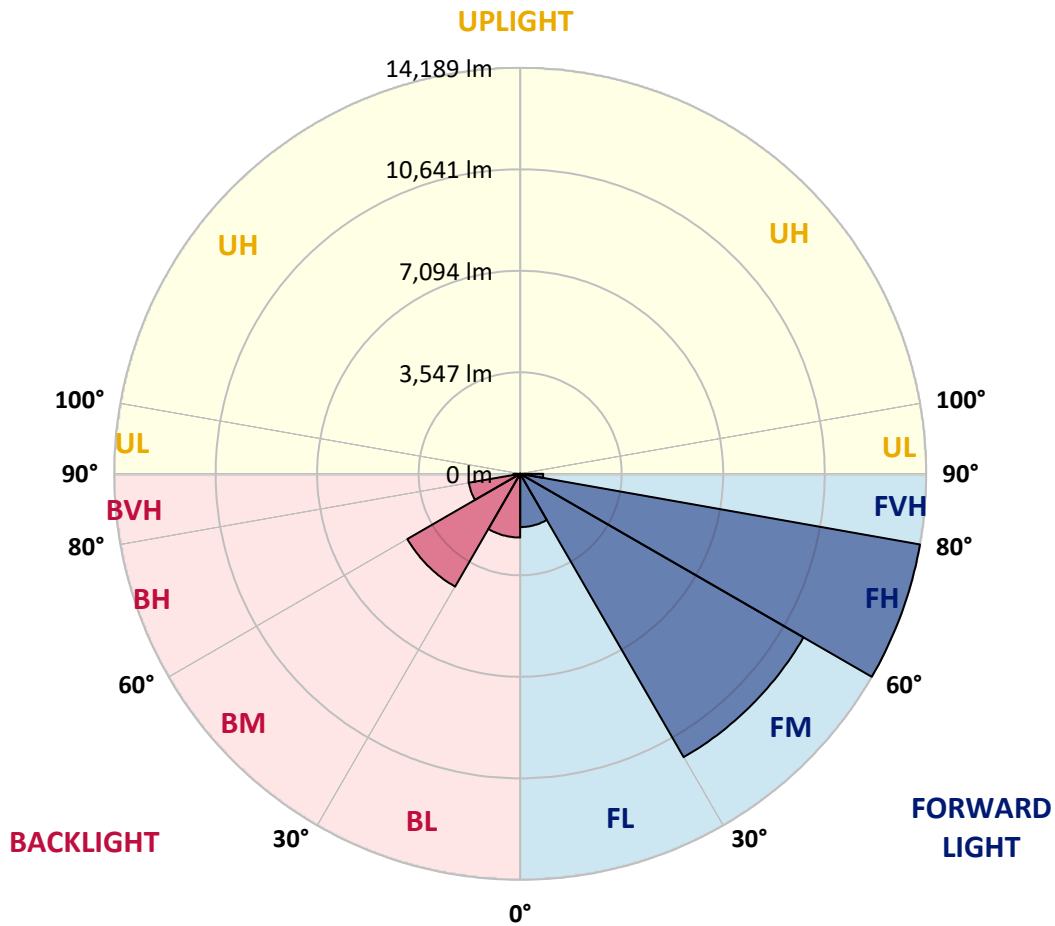
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1861.7	5.0			
FM (30°-60°)	11432.5	30.8			
FH (60°-80°)	14188.6	38.2			G5
FVH (80°-90°)	807.3	2.2			G5
BL (0°-30°)	2226.5	6.0	B3/2500		
BM (30°-60°)	4552.2	12.3	B3/5000		
BH (60°-80°)	1821.5	4.9	B3/2500		G3/2500
BVH (80°-90°)	234.6	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°	4947.2	4947.2	4947.2	4947.2	4947.2	4947.2	4947.2	4947.2	4947.2	4947.2
2.5°	4561.8	4589.9	4602.0	4595.9	4626.0	4622.0	4664.2	4716.4	4788.6	4858.9
5°	4210.6	4240.7	4266.8	4290.9	4349.1	4367.1	4433.4	4533.7	4666.2	4800.6
7.5°	3883.5	3909.6	3949.7	3993.9	4092.2	4110.3	4220.6	4377.2	4561.8	4758.5
10°	3616.5	3642.6	3684.8	3735.0	3857.4	3879.5	4019.9	4228.7	4469.5	4718.4
12.5°	3502.1	3510.2	3534.3	3584.4	3690.8	3704.8	3859.4	4098.2	4379.2	4688.3
15°	3496.1	3512.2	3514.2	3540.3	3628.6	3634.6	3777.1	4013.9	4323.0	4682.2
17.5°	3556.3	3568.4	3550.3	3566.4	3640.6	3650.7	3763.1	3973.8	4304.9	4708.3
20°	3716.9	3726.9	3672.7	3650.7	3704.8	3712.9	3823.3	3999.9	4323.0	4762.5
22.5°	4058.1	4064.1	3931.6	3841.3	3845.3	3849.4	3945.7	4106.2	4393.2	4860.9
25°	4589.9	4585.9	4375.2	4200.6	4100.2	4078.1	4142.4	4278.8	4511.6	4991.3
27.5°	5212.1	5182.0	4971.2	4710.3	4491.6	4459.5	4445.4	4503.6	4680.2	5163.9
30°	5914.5	5886.4	5659.6	5318.4	5015.4	4963.2	4830.8	4800.6	4931.1	5398.7
32.5°	6685.2	6667.1	6396.2	5982.7	5577.3	5517.1	5294.4	5214.1	5316.4	5754.0
35°	7331.4	7315.4	7090.6	6665.1	6169.4	6095.1	5868.4	5778.0	5830.2	6209.5
37.5°	7915.5	7907.4	7714.8	7379.6	6867.8	6777.5	6522.6	6492.5	6482.5	6809.6
40°	8457.3	8437.3	8236.6	8060.0	7680.6	7598.4	7373.6	7347.5	7271.2	7548.2
42.5°	9057.4	9005.2	8714.2	8631.9	8529.6	8461.3	8326.9	8330.9	8162.3	8381.1
45°	9547.1	9517.0	9218.0	9169.8	9280.2	9252.1	9368.5	9398.6	9071.5	9254.1
47.5°	10072.9	10044.8	9792.0	9757.8	10056.9	10064.9	10476.3	10486.4	9958.5	10161.2
50°	10721.2	10681.0	10430.2	10472.3	10807.5	10837.6	11590.2	11522.0	10775.4	11082.4
52.5°	11148.7	11172.7	11118.6	11186.8	11644.4	11672.5	12686.0	12511.4	11584.2	11991.6
55°	11463.8	11511.9	11680.5	11837.1	12527.4	12555.5	13719.6	13452.7	12254.5	12834.5
57.5°	11869.2	11800.9	12116.0	12421.1	13366.4	13440.6	14725.1	14359.8	12848.6	13561.0
60°	12451.2	12403.0	12647.9	13099.4	14305.6	14424.0	15788.8	15176.6	13284.1	14137.0
62.5°	13631.3	13510.9	13549.0	13948.4	15489.7	15646.3	16988.9	15889.1	13500.8	14361.8
65°	15395.4	15188.7	14996.0	15273.0	17157.5	17312.0	18343.6	16449.0	13420.5	13926.3
67.5°	17617.1	17412.4	17175.6	17436.5	19614.0	19736.4	20015.4	16764.1	12788.4	12248.5
70°	19449.5	19373.2	19656.2	20729.9	23537.6	23541.6	22158.8	16503.2	11056.3	8684.1
72.5°	19206.6	19160.5	20651.6	23971.1	28482.8	28376.4	24187.9	14528.4	7447.8	3917.6
75°	15756.6	16055.7	18365.7	23912.9	30258.9	30244.9	22945.6	9236.0	3080.7	1623.6
77.5°	8449.3	8922.9	11923.4	17655.2	23621.9	23977.2	16131.9	3231.2	1322.6	1039.6
80°	2755.6	3169.0	4752.5	8989.2	15349.2	15283.0	6914.0	1268.4	905.1	736.6
82.5°	1170.1	1218.2	2123.4	4244.7	7877.3	7754.9	2201.6	728.5	636.2	503.7
85°	457.6	511.8	937.3	1962.8	3411.8	3337.6	794.8	361.3	407.4	329.1
87.5°	150.5	182.6	335.2	672.3	1061.7	1023.5	194.7	124.4	176.6	150.5
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°
4947.2	0°	4947.2	4947.2	4947.2	4947.2	4947.2	4947.2	4947.2	4947.2	4947.2	4947.2
4961.2	2.5°	4989.3	5021.4	5059.5	5115.7	5163.9	5204.0	5246.2	5272.3	5282.3	5312.4
4969.2	5°	5025.4	5095.7	5190.0	5282.3	5372.6	5426.8	5475.0	5499.1	5521.1	5537.2
4991.3	7.5°	5085.6	5176.0	5324.5	5444.9	5521.1	5565.3	5597.4	5589.4	5597.4	5601.4
5015.4	10°	5137.8	5264.3	5440.9	5555.3	5613.5	5615.5	5607.4	5579.3	5565.3	5567.3
5051.5	12.5°	5200.0	5340.5	5531.2	5627.5	5643.6	5599.4	5565.3	5517.1	5499.1	5491.0
5105.7	15°	5284.3	5444.9	5629.5	5665.6	5625.5	5569.3	5511.1	5432.8	5392.7	5360.6
5198.0	17.5°	5386.7	5563.3	5705.8	5679.7	5593.4	5501.1	5406.8	5288.3	5206.1	5171.9
5324.5	20°	5529.2	5687.7	5764.0	5649.6	5519.1	5378.7	5218.1	5073.6	4997.3	4963.2
5485.0	22.5°	5701.8	5854.3	5820.2	5597.4	5412.8	5188.0	4987.3	4880.9	4842.8	4818.7
5691.7	25°	5908.5	6038.9	5860.3	5521.1	5238.2	4935.1	4780.6	4746.5	4728.4	4710.3
5944.6	27.5°	6177.4	6247.7	5890.4	5408.8	4965.2	4666.2	4610.0	4616.0	4610.0	4579.9
6295.8	30°	6532.7	6518.6	5918.5	5226.1	4652.1	4423.3	4427.4	4453.4	4457.5	4437.4
6785.5	32.5°	7000.3	6857.8	5932.6	4989.3	4353.1	4210.6	4214.6	4242.7	4262.8	4228.7
7425.8	35°	7566.2	7253.2	5910.5	4692.3	4122.3	4007.9	3977.8	3985.8	3991.8	3959.7
8202.4	37.5°	8226.5	7696.7	5812.2	4363.1	3931.6	3809.2	3745.0	3690.8	3658.7	3628.6
9081.5	40°	8951.0	8180.4	5631.5	4042.0	3718.9	3598.5	3502.1	3399.8	3291.4	3251.3
10012.7	42.5°	9709.7	8678.1	5412.8	3735.0	3474.0	3375.7	3273.4	3124.8	2962.3	2880.0
10980.1	45°	10496.4	9187.9	5198.0	3431.9	3223.2	3181.0	3062.6	2884.0	2707.4	2603.0
11949.4	47.5°	11267.1	9669.5	4882.9	3126.8	2988.4	3034.5	2942.2	2777.6	2581.0	2416.4
12910.8	50°	12003.6	10121.1	4367.1	2817.8	2797.7	2990.4	2902.1	2665.2	2440.5	2229.7
13854.0	52.5°	12734.2	10486.4	3706.9	2536.8	2695.3	2978.3	2849.9	2589.0	2314.0	2093.3
14741.1	55°	13354.3	10675.0	3070.6	2296.0	2546.8	2876.0	2787.7	2498.7	2135.4	1900.6
15349.2	57.5°	13707.5	10522.5	2540.8	2059.1	2342.1	2707.4	2681.3	2306.0	1922.7	1742.0
15467.6	60°	13555.0	9904.3	2107.3	1852.4	2147.4	2524.8	2496.7	2115.3	1760.1	1589.5
14833.4	62.5°	12714.1	8726.3	1764.1	1671.8	1970.8	2338.1	2312.0	1968.8	1635.7	1471.1
13149.6	65°	11020.2	7098.6	1497.2	1521.3	1792.2	2113.3	2151.5	1846.4	1537.3	1376.8
10173.3	67.5°	8405.2	5141.8	1288.5	1390.8	1617.6	1892.6	2002.9	1758.1	1455.0	1302.5
5886.4	70°	4790.6	2920.1	1111.9	1264.4	1463.1	1687.9	1888.5	1687.9	1366.7	1240.3
2205.6	72.5°	1816.3	1340.6	961.3	1137.9	1314.6	1515.3	1762.1	1577.5	1264.4	1170.1
1140.0	75°	969.4	816.8	808.8	989.4	1144.0	1346.7	1603.6	1469.1	1188.1	1236.3
788.7	77.5°	660.3	578.0	676.3	846.9	957.3	1160.0	1435.0	1304.5	1029.6	1025.6
545.9	80°	457.6	409.4	549.9	682.4	740.6	975.4	1252.3	1119.9	838.9	782.7
337.2	82.5°	275.0	266.9	411.4	509.8	523.8	752.6	1037.6	939.3	686.4	598.1
200.7	85°	150.5	158.5	262.9	299.0	305.1	525.8	812.8	726.5	527.8	443.5
72.3	87.5°	42.1	54.2	96.3	118.4	146.5	272.9	483.7	431.5	264.9	184.6
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>
4947.2
5310.4
5541.2
5607.4
5571.3
5487.0
5370.6
5173.9
4959.2
4822.7
4710.3
4585.9
4447.4
4244.7
3981.8
3648.7
3269.3
2890.0
2595.0
2398.3
2211.7
2069.2
1880.5
1718.0
1565.4
1445.0
1350.7
1278.4
1224.2
1154.0
1276.4
945.3
748.6
602.1
447.6
184.6
0.0

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