

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: P942069

Luminaire Tested: **GALN-SB5D-927-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942069
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-SB5D-927-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 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: 30925 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

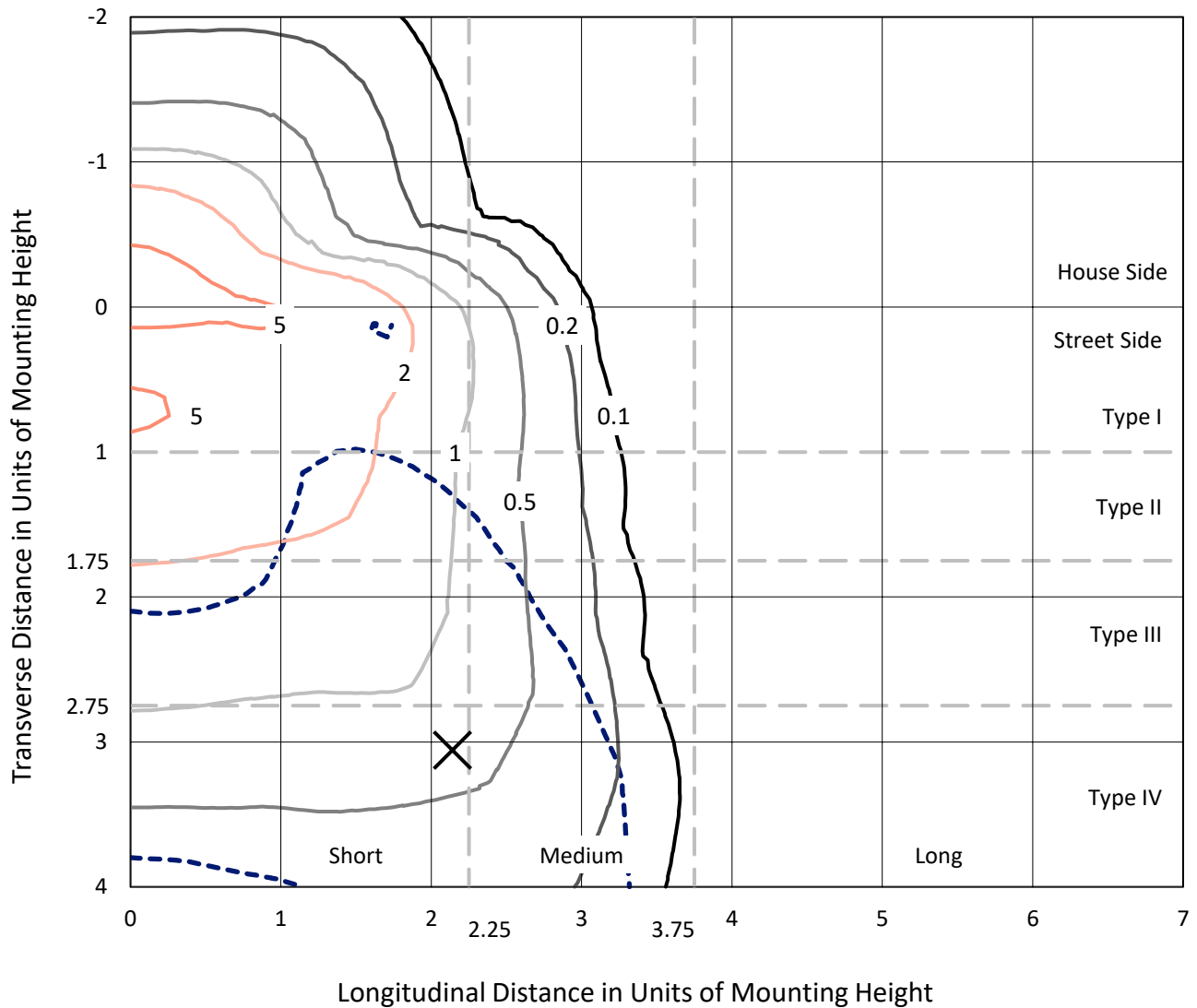
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P942069
 CATALOG NUMBER: GALN-SB5D-927-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

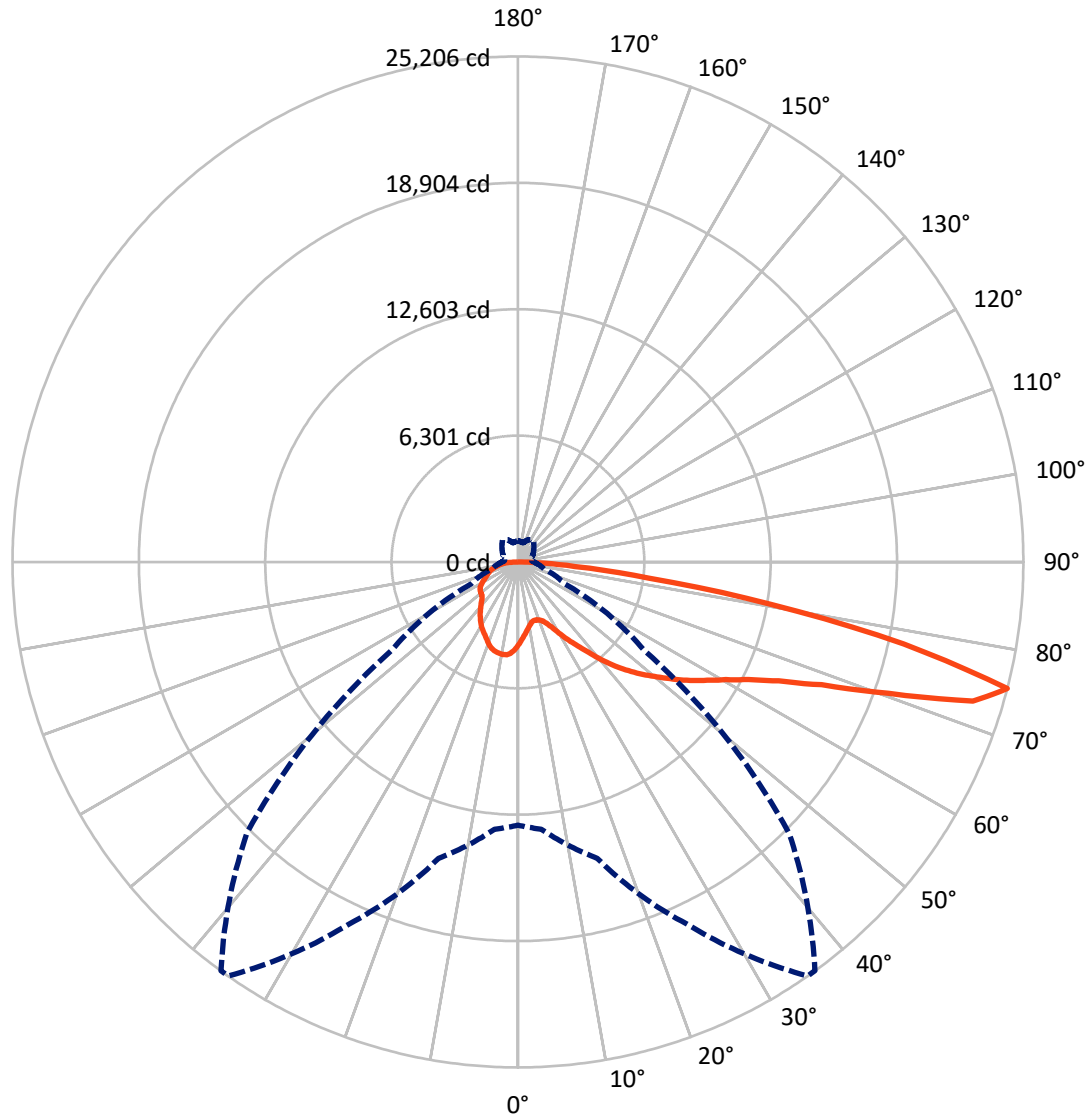
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P942069
CATALOG NUMBER: GALN-SB5D-927-U-T4FT

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	7359.4	0.0	7359.4
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	23565.6	0.0	23565.6
	% Fixture	76.2	0.0	76.2
Total	Lumens	30925.0	0.0	30925.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	390.2	1.3
10°-20°	1125.4	3.6
20°-30°	1889.9	6.1
30°-40°	2937.1	9.5
40°-50°	4359.5	14.1
50°-60°	6018.6	19.5
60°-70°	7301.9	23.6
70°-80°	6034.5	19.5
80°-90°	867.9	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°	30925.0	100.0
0°-180°	30925.0	100.0



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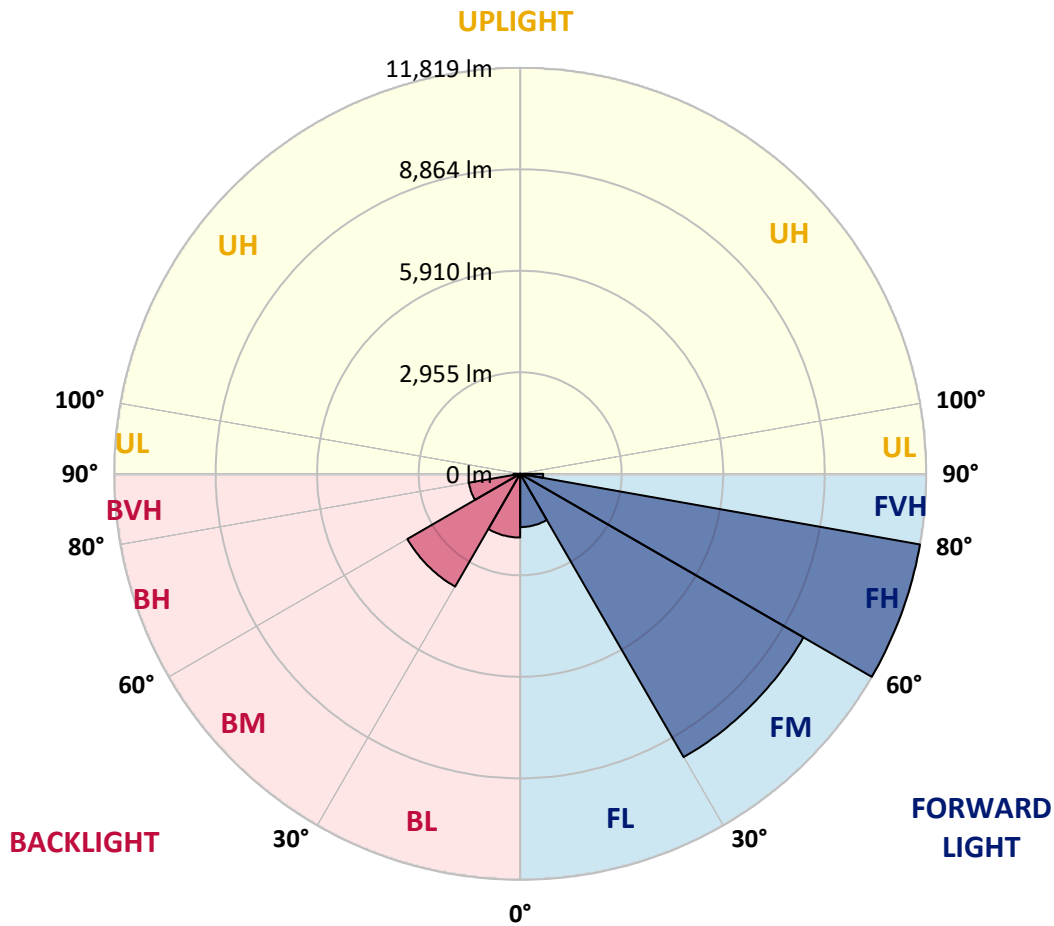
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1550.8	5.0			
FM (30°-60°)	9523.2	30.8			
FH (60°-80°)	11819.1	38.2			G4/12000
FVH (80°-90°)	672.5	2.2			G4/750
BL (0°-30°)	1854.7	6.0	B3/2500		
BM (30°-60°)	3792.0	12.3	B3/5000		
BH (60°-80°)	1517.3	4.9	B3/2500		G3/2500
BVH (80°-90°)	195.4	0.6			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 IV Short



REPORT NUMBER: P942069

CATALOG NUMBER: GALN-SB5D-927-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	4121.0	4121.0	4121.0	4121.0	4121.0	4121.0	4121.0	4121.0	4121.0	4121.0
2.5°	3800.0	3823.4	3833.4	3828.4	3853.5	3850.1	3885.2	3928.7	3988.9	4047.4
5°	3507.4	3532.5	3554.2	3574.3	3622.8	3637.8	3693.0	3776.6	3886.9	3998.9
7.5°	3234.9	3256.6	3290.1	3326.9	3408.8	3423.8	3515.8	3646.2	3800.0	3963.8
10°	3012.6	3034.3	3069.4	3111.2	3213.2	3231.6	3348.6	3522.5	3723.1	3930.4
12.5°	2917.3	2924.0	2944.0	2985.8	3074.4	3086.1	3214.9	3413.8	3647.8	3905.3
15°	2912.3	2925.6	2927.3	2949.0	3022.6	3027.6	3146.3	3343.6	3601.0	3900.3
17.5°	2962.4	2972.4	2957.4	2970.8	3032.6	3041.0	3134.6	3310.1	3586.0	3922.0
20°	3096.2	3104.5	3059.4	3041.0	3086.1	3092.8	3184.8	3331.9	3601.0	3967.2
22.5°	3380.4	3385.4	3275.0	3199.8	3203.2	3206.5	3286.7	3420.5	3659.6	4049.1
25°	3823.4	3820.0	3644.5	3499.1	3415.5	3397.1	3450.6	3564.3	3758.2	4157.7
27.5°	4341.6	4316.6	4141.0	3923.7	3741.5	3714.7	3703.0	3751.5	3898.6	4301.5
30°	4926.8	4903.4	4714.5	4430.2	4177.8	4134.3	4024.0	3998.9	4107.6	4497.1
32.5°	5568.7	5553.7	5328.0	4983.6	4645.9	4595.8	4410.2	4343.3	4428.6	4793.0
35°	6107.1	6093.7	5906.4	5552.0	5139.1	5077.2	4888.3	4813.1	4856.6	5172.5
37.5°	6593.5	6586.9	6426.4	6147.2	5720.9	5645.6	5433.3	5408.2	5399.9	5672.4
40°	7044.9	7028.2	6861.0	6713.9	6397.9	6329.4	6142.2	6120.4	6056.9	6287.6
42.5°	7544.8	7501.3	7258.9	7190.4	7105.1	7048.3	6936.3	6939.6	6799.2	6981.4
45°	7952.7	7927.6	7678.5	7638.4	7730.4	7707.0	7803.9	7829.0	7556.5	7708.6
47.5°	8390.7	8367.3	8156.7	8128.2	8377.3	8384.0	8726.8	8735.1	8295.4	8464.3
50°	8930.7	8897.3	8688.3	8723.4	9002.6	9027.7	9654.6	9597.8	8975.8	9231.6
52.5°	9286.8	9306.9	9261.7	9318.6	9699.7	9723.1	10567.4	10421.9	9649.6	9989.0
55°	9549.3	9589.4	9729.8	9860.2	10435.3	10458.7	11428.4	11206.0	10208.0	10691.1
57.5°	9887.0	9830.1	10092.6	10346.7	11134.1	11196.0	12265.9	11961.7	10702.8	11296.3
60°	10371.8	10331.7	10535.6	10911.8	11916.5	12015.2	13152.0	12642.1	11065.6	11776.1
62.5°	11354.8	11254.5	11286.3	11618.9	12902.9	13033.3	14151.7	13235.6	11246.1	11963.3
65°	12824.3	12652.1	12491.6	12722.3	14292.1	14420.9	15280.2	13702.0	11179.3	11600.6
67.5°	14675.0	14504.5	14307.2	14524.5	16338.4	16440.4	16672.8	13964.5	10652.7	10202.9
70°	16201.3	16137.8	16373.5	17267.9	19606.8	19610.1	18458.2	13747.1	9209.9	7233.8
72.5°	15999.0	15960.6	17202.7	19967.9	23726.1	23637.5	20148.4	12102.1	6204.0	3263.3
75°	13125.2	13374.3	15298.6	19919.4	25205.6	25193.9	19113.6	7693.6	2566.2	1352.5
77.5°	7038.2	7432.8	9932.1	14706.7	19677.0	19972.9	13437.9	2691.6	1101.7	866.0
80°	2295.4	2639.8	3958.8	7488.0	12785.9	12730.7	5759.3	1056.6	754.0	613.5
82.5°	974.7	1014.8	1768.8	3535.8	6561.8	6459.8	1834.0	606.9	530.0	419.6
85°	381.2	426.3	780.7	1635.0	2842.0	2780.2	662.0	300.9	339.4	274.2
87.5°	125.4	152.1	279.2	560.1	884.4	852.6	162.2	103.7	147.1	125.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P942069
 CATALOG NUMBER: GALN-SB5D-927-U-T4FT

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4121.0	0°	4121.0	4121.0	4121.0	4121.0	4121.0	4121.0	4121.0	4121.0	4121.0	4121.0
4132.7	2.5°	4156.1	4182.8	4214.6	4261.4	4301.5	4335.0	4370.1	4391.8	4400.2	4425.2
4139.4	5°	4186.2	4244.7	4323.3	4400.2	4475.4	4520.5	4560.6	4580.7	4599.1	4612.5
4157.7	7.5°	4236.3	4311.5	4435.3	4535.6	4599.1	4635.9	4662.6	4655.9	4662.6	4666.0
4177.8	10°	4279.8	4385.1	4532.2	4627.5	4676.0	4677.7	4671.0	4647.6	4635.9	4637.5
4207.9	12.5°	4331.6	4448.6	4607.5	4687.7	4701.1	4664.3	4635.9	4595.8	4580.7	4574.0
4253.0	15°	4401.8	4535.6	4689.4	4719.5	4686.0	4639.2	4590.7	4525.5	4492.1	4465.4
4329.9	17.5°	4487.1	4634.2	4752.9	4731.2	4659.3	4582.4	4503.8	4405.2	4336.6	4308.2
4435.3	20°	4605.8	4737.9	4801.4	4706.1	4597.4	4480.4	4346.7	4226.3	4162.8	4134.3
4569.0	22.5°	4749.6	4876.6	4848.2	4662.6	4508.8	4321.6	4154.4	4065.8	4034.0	4014.0
4741.2	25°	4921.8	5030.4	4881.6	4599.1	4363.4	4110.9	3982.2	3953.8	3938.7	3923.7
4951.8	27.5°	5145.8	5204.3	4906.7	4505.5	4136.0	3886.9	3840.1	3845.1	3840.1	3815.0
5244.4	30°	5441.7	5430.0	4930.1	4353.3	3875.2	3684.6	3688.0	3709.7	3713.0	3696.3
5652.3	32.5°	5831.2	5712.5	4941.8	4156.1	3626.1	3507.4	3510.8	3534.2	3550.9	3522.5
6185.6	35°	6302.7	6041.9	4923.4	3908.6	3433.9	3338.6	3313.5	3320.2	3325.2	3298.4
6832.6	37.5°	6852.7	6411.3	4841.5	3634.5	3275.0	3173.1	3119.6	3074.4	3047.7	3022.6
7564.9	40°	7456.2	6814.2	4691.0	3367.0	3097.8	2997.5	2917.3	2832.0	2741.7	2708.3
8340.6	42.5°	8088.1	7228.8	4508.8	3111.2	2893.9	2812.0	2726.7	2603.0	2467.6	2399.0
9146.4	45°	8743.5	7653.5	4329.9	2858.8	2684.9	2649.8	2551.2	2402.4	2255.2	2168.3
9953.8	47.5°	9385.4	8054.7	4067.5	2604.7	2489.3	2527.7	2450.8	2313.8	2149.9	2012.8
10754.6	50°	9999.0	8430.8	3637.8	2347.2	2330.5	2491.0	2417.4	2220.1	2032.9	1857.4
11540.4	52.5°	10607.5	8735.1	3087.8	2113.1	2245.2	2480.9	2373.9	2156.6	1927.6	1743.7
12279.3	55°	11124.1	8892.3	2557.8	1912.5	2121.5	2395.7	2322.1	2081.4	1778.8	1583.2
12785.9	57.5°	11418.3	8765.2	2116.5	1715.3	1951.0	2255.2	2233.5	1920.9	1601.6	1451.1
12884.5	60°	11291.3	8250.3	1755.4	1543.1	1788.8	2103.1	2079.7	1762.1	1466.2	1324.1
12356.2	62.5°	10590.8	7268.9	1469.5	1392.6	1641.7	1947.6	1925.9	1640.0	1362.5	1225.4
10953.6	65°	9179.8	5913.1	1247.2	1267.2	1492.9	1760.4	1792.2	1538.0	1280.6	1146.8
8474.3	67.5°	7001.5	4283.1	1073.3	1158.6	1347.5	1576.5	1668.4	1464.5	1212.0	1085.0
4903.4	70°	3990.6	2432.5	926.2	1053.2	1218.7	1406.0	1573.2	1406.0	1138.5	1033.2
1837.3	72.5°	1513.0	1116.8	800.8	947.9	1095.0	1262.2	1467.8	1314.0	1053.2	974.7
949.6	75°	807.5	680.4	673.7	824.2	952.9	1121.8	1335.8	1223.8	989.7	1029.8
657.0	77.5°	550.0	481.5	563.4	705.5	797.4	966.3	1195.3	1086.7	857.6	854.3
454.7	80°	381.2	341.0	458.1	568.4	616.9	812.5	1043.2	932.9	698.8	652.0
280.9	82.5°	229.0	222.3	342.7	424.6	436.3	626.9	864.3	782.4	571.8	498.2
167.2	85°	125.4	132.1	219.0	249.1	254.1	438.0	677.1	605.2	439.7	369.5
60.2	87.5°	35.1	45.1	80.2	98.6	122.0	227.4	402.9	359.4	220.7	153.8
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>
4121.0
4423.6
4615.8
4671.0
4640.9
4570.7
4473.7
4309.9
4131.0
4017.3
3923.7
3820.0
3704.7
3535.8
3316.8
3039.3
2723.3
2407.4
2161.6
1997.8
1842.3
1723.6
1566.5
1431.1
1304.0
1203.7
1125.1
1064.9
1019.8
961.3
1063.3
787.4
623.6
501.5
372.8
153.8
0.0

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