

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: P941649

Luminaire Tested: **GALN-SB5B-740-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941649
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-SB5B-740-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29744 lumens
Efficiency: N/A
Efficacy: 162.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

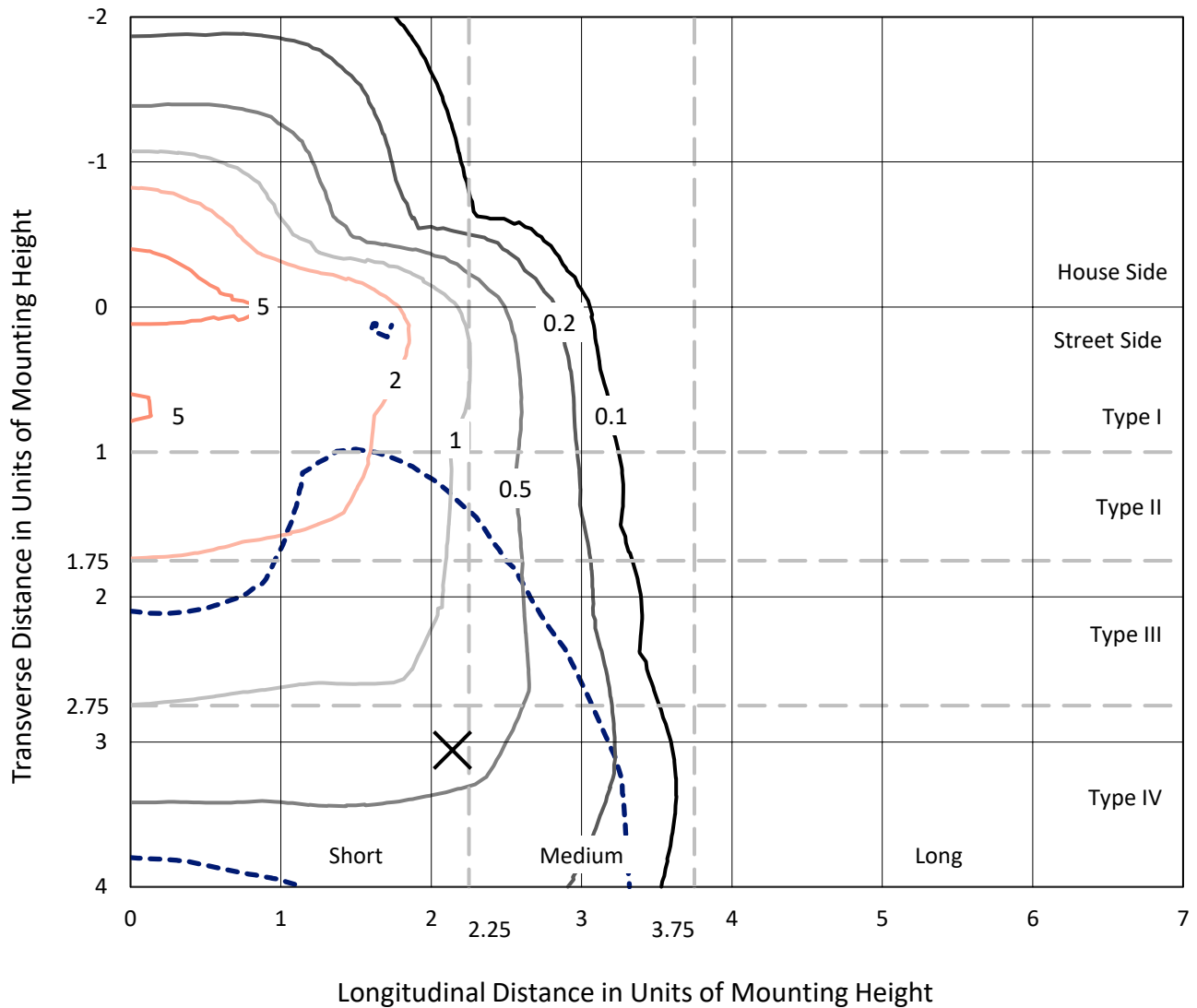
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

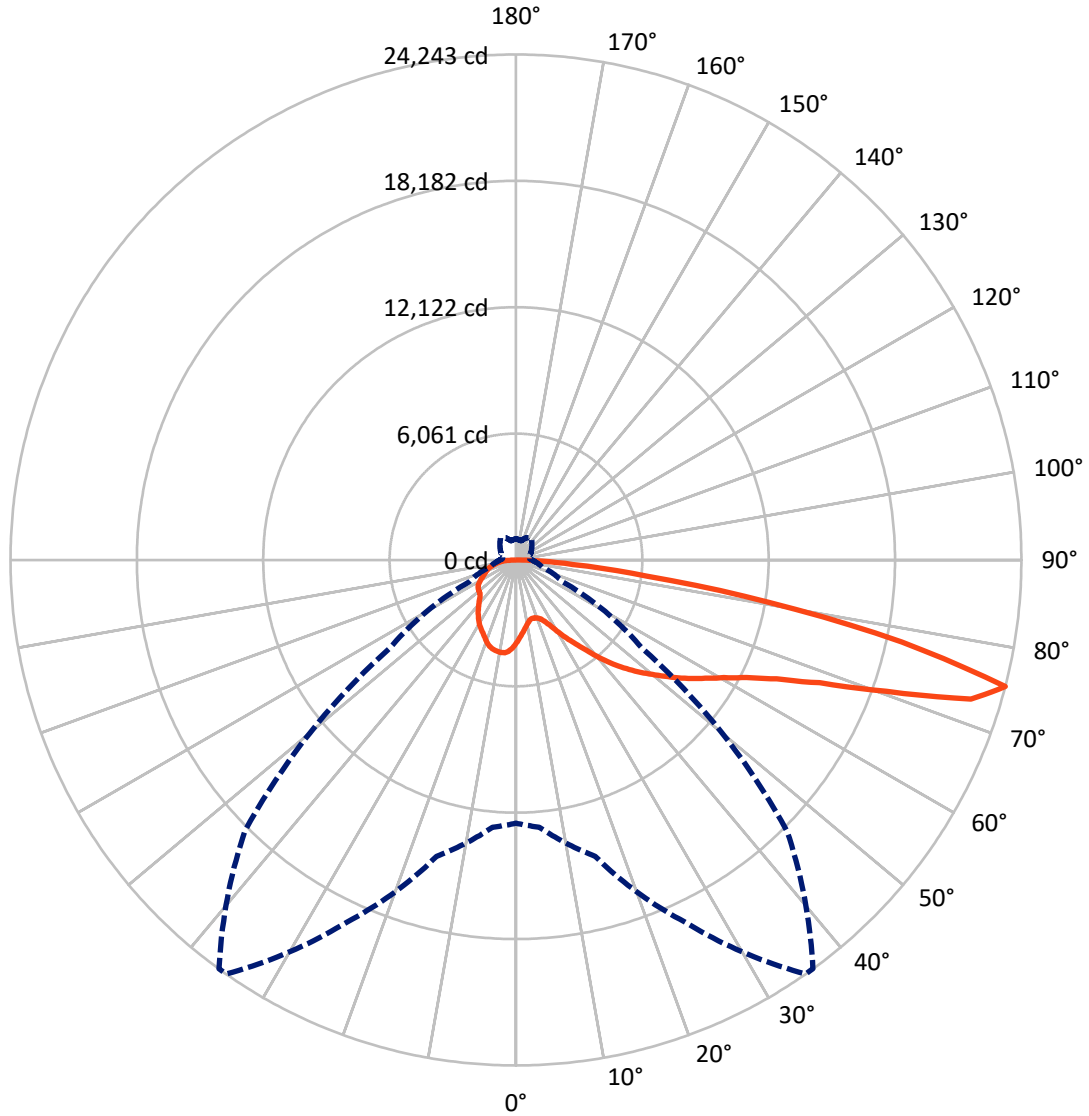
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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	7078.3	0.0	7078.3
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	22665.7	0.0	22665.7
	% Fixture	76.2	0.0	76.2
Total	Lumens	29744.0	0.0	29744.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.3	1.3
10°-20°	1082.5	3.6
20°-30°	1817.7	6.1
30°-40°	2825.0	9.5
40°-50°	4193.0	14.1
50°-60°	5788.7	19.5
60°-70°	7023.0	23.6
70°-80°	5804.0	19.5
80°-90°	834.8	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°	29744.0	100.0
0°-180°	29744.0	100.0



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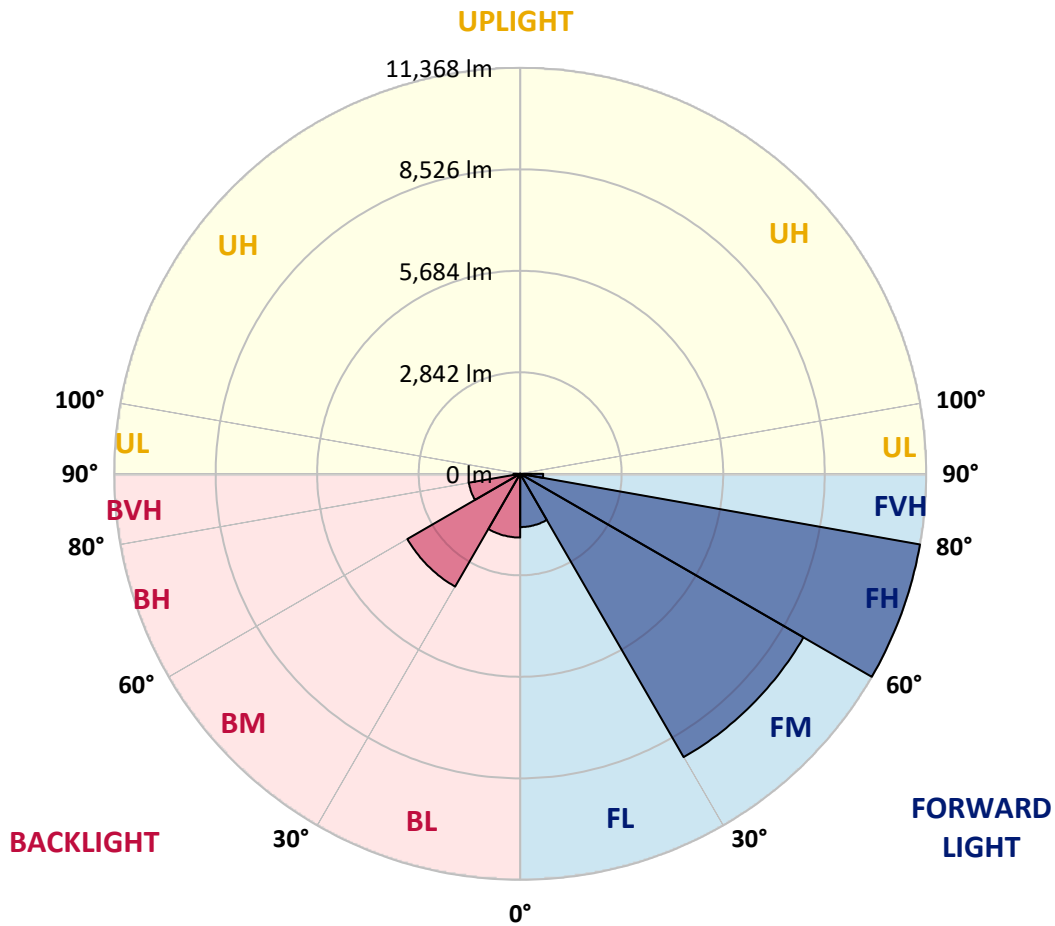
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1491.6	5.0			
FM (30°-60°)	9159.5	30.8			
FH (60°-80°)	11367.7	38.2			G4/12000
FVH (80°-90°)	646.8	2.2			G4/750
BL (0°-30°)	1783.8	6.0	B3/2500		
BM (30°-60°)	3647.2	12.3	B3/5000		
BH (60°-80°)	1459.3	4.9	B3/2500		G3/2500
BVH (80°-90°)	188.0	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	3963.6	3963.6	3963.6	3963.6	3963.6	3963.6	3963.6	3963.6	3963.6	3963.6
2.5°	3654.9	3677.4	3687.0	3682.2	3706.3	3703.1	3736.9	3778.7	3836.6	3892.8
5°	3373.5	3397.6	3418.5	3437.8	3484.4	3498.9	3552.0	3632.4	3738.5	3846.2
7.5°	3111.4	3132.3	3164.4	3199.8	3278.6	3293.1	3381.5	3506.9	3654.9	3812.4
10°	2897.5	2918.4	2952.2	2992.4	3090.5	3108.2	3220.7	3387.9	3580.9	3780.3
12.5°	2805.9	2812.3	2831.6	2871.8	2957.0	2968.3	3092.1	3283.4	3508.5	3756.2
15°	2801.0	2813.9	2815.5	2836.4	2907.2	2912.0	3026.2	3215.9	3463.5	3751.3
17.5°	2849.3	2858.9	2844.5	2857.3	2916.8	2924.9	3014.9	3183.7	3449.0	3772.2
20°	2977.9	2986.0	2942.5	2924.9	2968.3	2974.7	3063.1	3204.6	3463.5	3815.7
22.5°	3251.3	3256.1	3150.0	3077.6	3080.8	3084.0	3161.2	3289.9	3519.8	3894.4
25°	3677.4	3674.2	3505.3	3365.4	3285.0	3267.3	3318.8	3428.1	3614.7	3999.0
27.5°	4175.8	4151.7	3982.9	3773.9	3598.6	3572.9	3561.6	3608.2	3749.7	4137.2
30°	4738.6	4716.1	4534.4	4261.1	4018.3	3976.5	3870.3	3846.2	3950.7	4325.4
32.5°	5356.1	5341.6	5124.5	4793.3	4468.5	4420.2	4241.8	4177.4	4259.5	4610.0
35°	5873.8	5861.0	5680.9	5340.0	4942.8	4883.3	4701.6	4629.3	4671.1	4975.0
37.5°	6341.7	6335.3	6180.9	5912.4	5502.4	5430.0	5225.8	5201.7	5193.7	5455.8
40°	6775.9	6759.8	6599.0	6457.5	6153.6	6087.7	5907.6	5886.7	5825.6	6047.5
42.5°	7256.7	7214.9	6981.7	6915.8	6833.8	6779.1	6671.4	6674.6	6539.5	6714.8
45°	7649.0	7624.9	7385.3	7346.7	7435.1	7412.6	7505.9	7530.0	7267.9	7414.2
47.5°	8070.3	8047.8	7845.2	7817.8	8057.4	8063.9	8393.5	8401.5	7978.6	8141.0
50°	8589.7	8557.5	8356.5	8390.3	8658.8	8682.9	9285.9	9231.2	8633.1	8879.1
52.5°	8932.1	8951.4	8908.0	8962.7	9329.3	9351.8	10163.8	10023.9	9281.1	9607.5
55°	9184.6	9223.2	9358.3	9483.7	10036.8	10059.3	10991.9	10778.1	9818.1	10282.8
57.5°	9509.4	9454.7	9707.2	9951.6	10708.9	10768.4	11797.5	11504.9	10294.1	10864.9
60°	9975.7	9937.1	10133.3	10495.1	11461.4	11556.3	12649.7	12159.3	10643.0	11326.4
62.5°	10921.2	10824.7	10855.2	11175.2	12410.1	12535.6	13611.3	12730.1	10816.7	11506.5
65°	12334.6	12168.9	12014.6	12236.5	13746.3	13870.2	14696.6	13178.7	10752.3	11157.5
67.5°	14114.6	13950.5	13760.8	13969.8	15714.5	15812.6	16036.1	13431.2	10245.8	9813.3
70°	15582.6	15521.5	15748.2	16608.5	18858.0	18861.2	17753.3	13222.1	8858.2	6957.6
72.5°	15388.1	15351.1	16545.8	19205.3	22820.0	22734.8	19379.0	11639.9	5967.1	3138.7
75°	12624.0	12863.6	14714.3	19158.7	24243.0	24231.8	18383.7	7399.8	2468.2	1300.8
77.5°	6769.5	7148.9	9552.8	14145.1	18925.5	19210.1	12924.7	2588.8	1059.6	832.9
80°	2207.7	2538.9	3807.6	7202.0	12297.6	12244.5	5539.4	1016.2	725.2	590.1
82.5°	937.4	976.0	1701.2	3400.8	6311.2	6213.1	1763.9	583.7	509.7	403.6
85°	366.6	410.0	750.9	1572.6	2733.5	2674.0	636.7	289.4	326.4	263.7
87.5°	120.6	146.3	268.5	538.7	850.6	820.1	156.0	99.7	141.5	120.6
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°
3963.6	0°	3963.6	3963.6	3963.6	3963.6	3963.6	3963.6	3963.6	3963.6	3963.6	3963.6
3974.8	2.5°	3997.4	4023.1	4053.6	4098.7	4137.2	4169.4	4203.2	4224.1	4232.1	4256.2
3981.3	5°	4026.3	4082.6	4158.2	4232.1	4304.5	4347.9	4386.5	4405.8	4423.5	4436.3
3999.0	7.5°	4074.5	4146.9	4265.9	4362.4	4423.5	4458.8	4484.6	4478.1	4484.6	4487.8
4018.3	10°	4116.3	4217.6	4359.1	4450.8	4497.4	4499.0	4492.6	4470.1	4458.8	4460.4
4047.2	12.5°	4166.2	4278.7	4431.5	4508.7	4521.5	4486.2	4458.8	4420.2	4405.8	4399.3
4090.6	15°	4233.7	4362.4	4510.3	4539.2	4507.1	4462.1	4415.4	4352.7	4320.6	4294.8
4164.6	17.5°	4315.7	4457.2	4571.4	4550.5	4481.3	4407.4	4331.8	4236.9	4171.0	4143.7
4265.9	20°	4429.9	4556.9	4618.0	4526.4	4421.9	4309.3	4180.7	4064.9	4003.8	3976.5
4394.5	22.5°	4568.2	4690.4	4663.0	4484.6	4336.6	4156.5	3995.7	3910.5	3880.0	3860.7
4560.1	25°	4733.8	4838.3	4695.2	4423.5	4196.7	3953.9	3830.1	3802.8	3788.3	3773.9
4762.7	27.5°	4949.3	5005.5	4719.3	4333.4	3978.1	3738.5	3693.5	3698.3	3693.5	3669.3
5044.1	30°	5233.9	5222.6	4741.8	4187.1	3727.2	3543.9	3547.1	3568.0	3571.3	3555.2
5436.5	32.5°	5608.5	5494.4	4753.1	3997.4	3487.6	3373.5	3376.7	3399.2	3415.3	3387.9
5949.4	35°	6062.0	5811.1	4735.4	3759.4	3302.7	3211.1	3187.0	3193.4	3198.2	3172.5
6571.7	37.5°	6591.0	6166.5	4656.6	3495.7	3150.0	3051.9	3000.4	2957.0	2931.3	2907.2
7276.0	40°	7171.4	6554.0	4511.9	3238.4	2979.5	2883.0	2805.9	2723.9	2637.0	2604.9
8022.0	42.5°	7779.2	6952.8	4336.6	2992.4	2783.4	2704.6	2622.6	2503.6	2373.3	2307.4
8797.1	45°	8409.6	7361.2	4164.6	2749.6	2582.4	2548.6	2453.7	2310.6	2169.1	2085.5
9573.7	47.5°	9027.0	7747.1	3912.1	2505.2	2394.2	2431.2	2357.3	2225.4	2067.8	1936.0
10343.9	50°	9617.1	8108.9	3498.9	2257.6	2241.5	2395.8	2325.1	2135.4	1955.3	1786.4
11099.7	52.5°	10202.4	8401.5	2969.9	2032.4	2159.5	2386.2	2283.3	2074.3	1854.0	1677.1
11810.4	55°	10699.3	8552.7	2460.2	1839.5	2040.5	2304.2	2233.4	2001.9	1710.9	1522.7
12297.6	57.5°	10982.3	8430.5	2035.7	1649.8	1876.5	2169.1	2148.2	1847.5	1540.4	1395.7
12392.4	60°	10860.1	7935.2	1688.3	1484.1	1720.5	2022.8	2000.3	1694.8	1410.2	1273.5
11884.3	62.5°	10186.3	6991.4	1413.4	1339.4	1579.0	1873.3	1852.4	1577.4	1310.5	1178.6
10535.3	65°	8829.2	5687.3	1199.5	1218.8	1435.9	1693.2	1723.7	1479.3	1231.7	1103.1
8150.7	67.5°	6734.1	4119.6	1032.3	1114.3	1296.0	1516.3	1604.7	1408.6	1165.8	1043.6
4716.1	70°	3838.2	2339.6	890.8	1013.0	1172.2	1352.3	1513.1	1352.3	1095.0	993.7
1767.1	72.5°	1455.2	1074.1	770.2	911.7	1053.2	1214.0	1411.8	1263.8	1013.0	937.4
913.3	75°	776.6	654.4	648.0	792.7	916.5	1078.9	1284.7	1177.0	951.9	990.5
631.9	77.5°	529.0	463.1	541.9	678.6	767.0	929.4	1149.7	1045.2	824.9	821.7
437.4	80°	366.6	328.0	440.6	546.7	593.3	781.5	1003.4	897.2	672.1	627.1
270.1	82.5°	220.3	213.9	329.6	408.4	419.7	603.0	831.3	752.5	549.9	479.2
160.8	85°	120.6	127.0	210.6	239.6	244.4	421.3	651.2	582.1	422.9	355.4
57.9	87.5°	33.8	43.4	77.2	94.9	117.4	218.7	387.5	345.7	212.2	147.9
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>
3963.6
4254.6
4439.5
4492.6
4463.7
4396.1
4302.9
4145.3
3973.2
3863.9
3773.9
3674.2
3563.2
3400.8
3190.2
2923.2
2619.3
2315.4
2079.1
1921.5
1772.0
1657.8
1506.6
1376.4
1254.2
1157.7
1082.1
1024.3
980.8
924.6
1022.7
757.3
599.8
482.4
358.6
147.9
0.0

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