

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: P943099

Luminaire Tested: **GALN-SB7B-930-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943099
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-SB7B-930-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27534 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

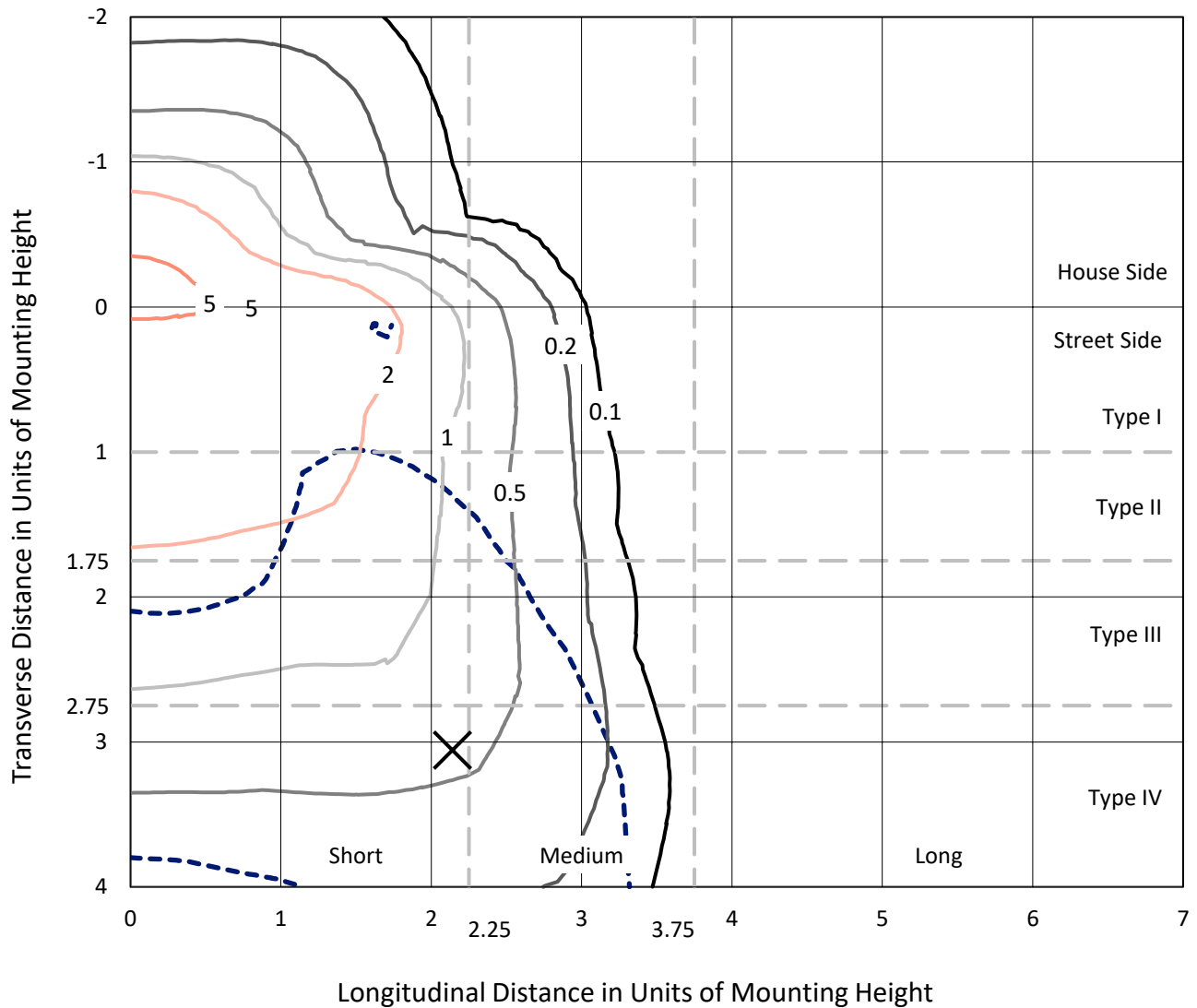
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P943099
 CATALOG NUMBER: GALN-SB7B-930-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

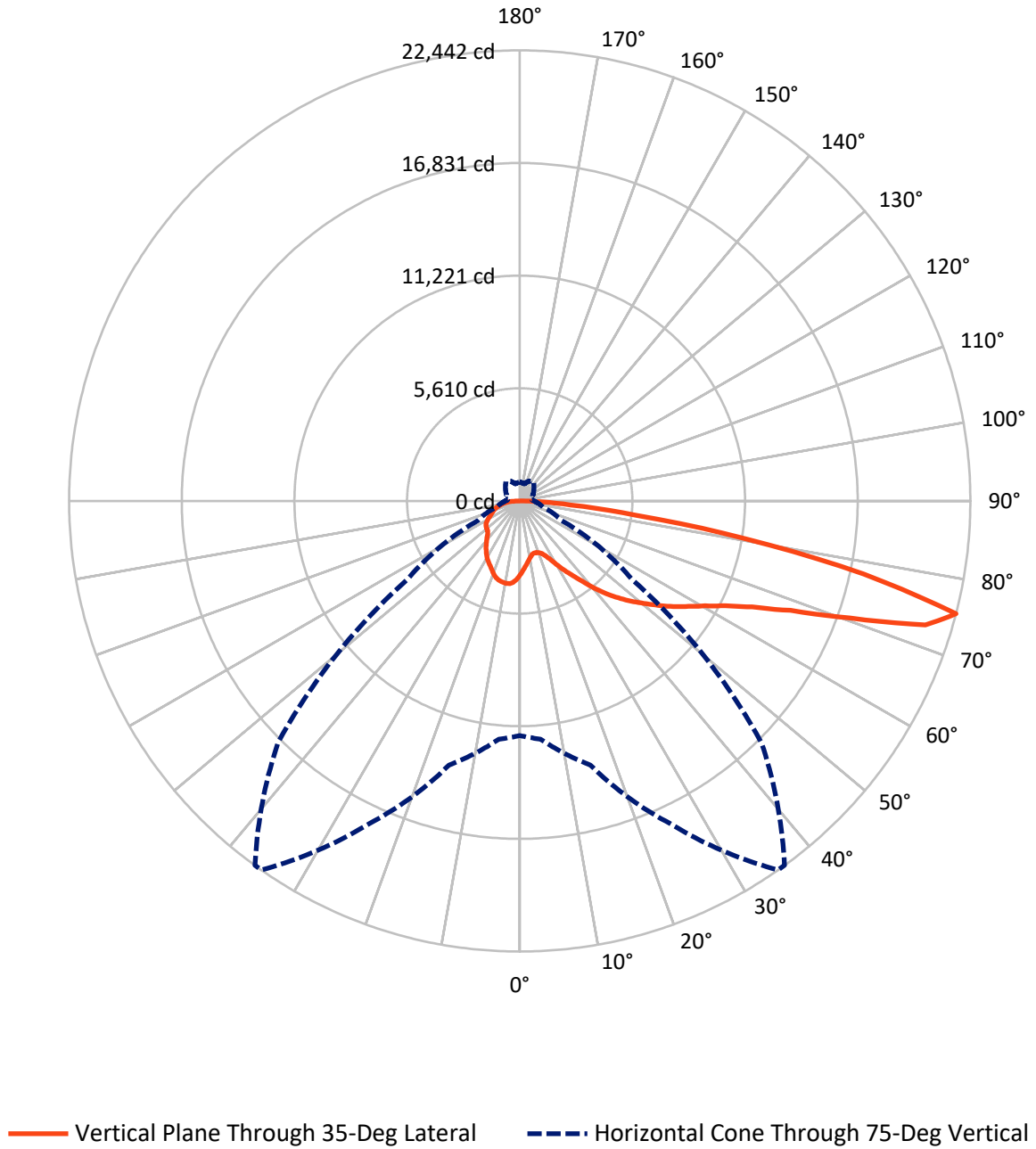
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P943099
CATALOG NUMBER: GALN-SB7B-930-U-T4FT

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6552.4	0.0	6552.4
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	20981.6	0.0	20981.6
	% Fixture	76.2	0.0	76.2
Total	Lumens	27534.0	0.0	27534.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.4	1.3
10°-20°	1002.0	3.6
20°-30°	1682.7	6.1
30°-40°	2615.1	9.5
40°-50°	3881.5	14.1
50°-60°	5358.6	19.5
60°-70°	6501.2	23.6
70°-80°	5372.8	19.5
80°-90°	772.8	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°	27534.0	100.0
0°-180°	27534.0	100.0

Coefficient of Utilization



REPORT NUMBER: P943099

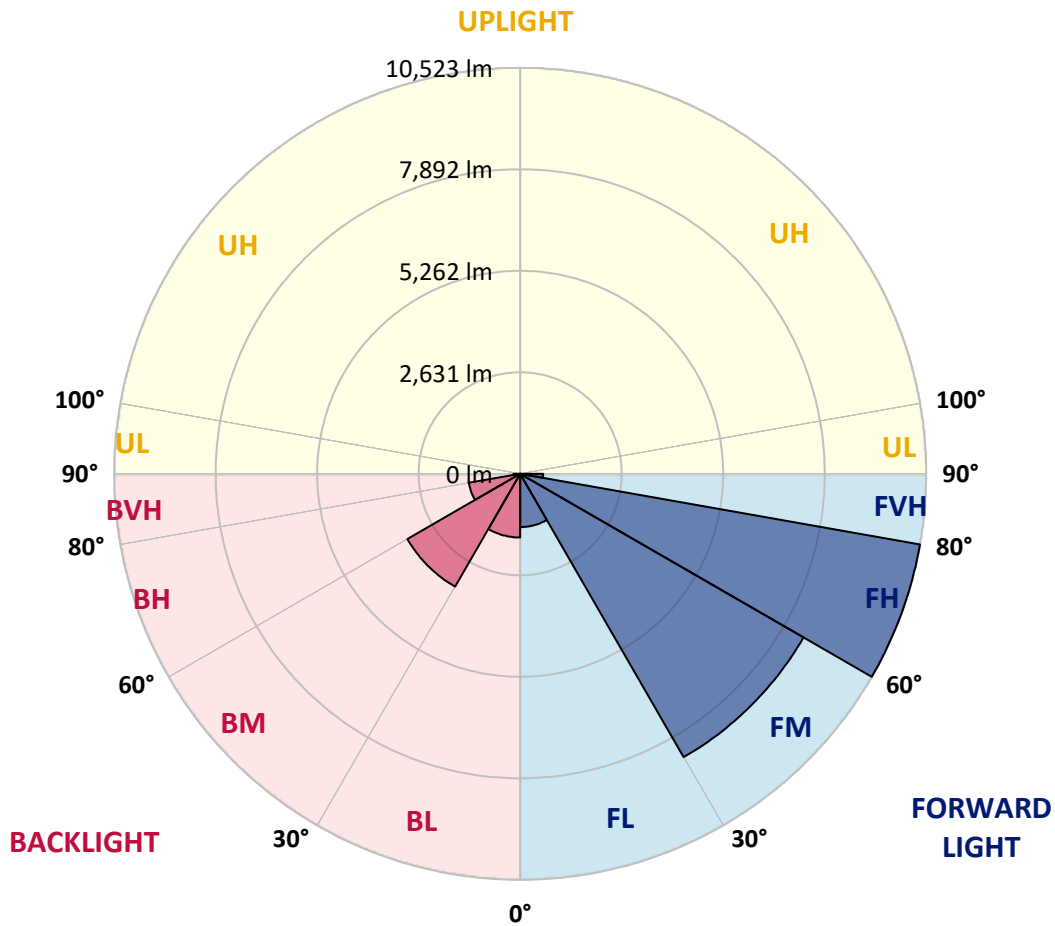
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1380.8	5.0			
FM (30°-60°)	8479.0	30.8			
FH (60°-80°)	10523.1	38.2			G4/12000
FVH (80°-90°)	598.8	2.2			G4/750
BL (0°-30°)	1651.3	6.0	B3/2500		
BM (30°-60°)	3376.2	12.3	B3/5000		
BH (60°-80°)	1350.9	4.9	B3/2500		G3/2500
BVH (80°-90°)	174.0	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



REPORT NUMBER: P943099
 CATALOG NUMBER: GALN-SB7B-930-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	3669.1	3669.1	3669.1	3669.1	3669.1	3669.1	3669.1	3669.1	3669.1	3669.1
2.5°	3383.3	3404.1	3413.1	3408.6	3430.9	3428.0	3459.2	3497.9	3551.5	3603.6
5°	3122.8	3145.1	3164.5	3182.4	3225.5	3238.9	3288.0	3362.5	3460.7	3560.4
7.5°	2880.2	2899.5	2929.3	2962.1	3035.0	3048.4	3130.3	3246.4	3383.3	3529.2
10°	2682.2	2701.6	2732.8	2770.1	2860.8	2877.2	2981.4	3136.2	3314.8	3499.4
12.5°	2597.4	2603.3	2621.2	2658.4	2737.3	2747.7	2862.3	3039.5	3247.9	3477.1
15°	2592.9	2604.8	2606.3	2625.7	2691.2	2695.6	2801.3	2977.0	3206.2	3472.6
17.5°	2637.6	2646.5	2633.1	2645.0	2700.1	2707.5	2790.9	2947.2	3192.8	3492.0
20°	2756.7	2764.1	2723.9	2707.5	2747.7	2753.7	2835.5	2966.5	3206.2	3532.2
22.5°	3009.7	3014.2	2915.9	2848.9	2851.9	2854.9	2926.3	3045.4	3258.3	3605.1
25°	3404.1	3401.2	3244.9	3115.4	3041.0	3024.6	3072.2	3173.4	3346.1	3701.8
27.5°	3865.6	3843.2	3687.0	3493.5	3331.2	3307.4	3297.0	3340.1	3471.1	3829.8
30°	4386.5	4365.7	4197.5	3944.5	3719.7	3681.0	3582.8	3560.4	3657.2	4004.0
32.5°	4958.1	4944.7	4743.8	4437.1	4136.5	4091.8	3926.6	3867.1	3943.0	4267.5
35°	5437.4	5425.5	5258.8	4943.2	4575.6	4520.5	4352.3	4285.3	4324.0	4605.3
37.5°	5870.5	5864.6	5721.7	5473.1	5093.6	5026.6	4837.5	4815.2	4807.8	5050.4
40°	6272.4	6257.6	6108.7	5977.7	5696.4	5635.4	5468.7	5449.3	5392.7	5598.2
42.5°	6717.5	6678.8	6463.0	6401.9	6326.0	6275.4	6175.7	6178.7	6053.6	6215.9
45°	7080.7	7058.4	6836.6	6800.8	6882.7	6861.9	6948.2	6970.5	6727.9	6863.4
47.5°	7470.7	7449.8	7262.3	7237.0	7458.8	7464.7	7769.8	7777.3	7385.8	7536.2
50°	7951.4	7921.7	7735.6	7766.9	8015.4	8037.8	8595.9	8545.3	7991.6	8219.4
52.5°	8268.5	8286.3	8246.2	8296.8	8636.1	8657.0	9408.7	9279.2	8591.5	8893.6
55°	8502.2	8537.9	8662.9	8779.0	9291.1	9311.9	10175.2	9977.3	9088.6	9518.8
57.5°	8802.8	8752.2	8985.9	9212.2	9913.2	9968.3	10920.9	10650.0	9529.2	10057.6
60°	9234.5	9198.8	9380.4	9715.3	10609.9	10697.7	11709.8	11255.9	9852.2	10484.8
62.5°	10109.7	10020.4	10048.7	10344.9	11488.1	11604.2	12599.9	11784.3	10013.0	10651.5
65°	11418.1	11264.8	11121.9	11327.3	12725.0	12839.6	13604.7	12199.5	9953.4	10328.5
67.5°	13065.8	12914.0	12738.4	12931.9	14546.9	14637.7	14844.6	12433.2	9484.6	9084.2
70°	14424.8	14368.3	14578.1	15374.5	17456.8	17459.8	16434.3	12239.7	8200.0	6440.6
72.5°	14244.7	14210.5	15316.4	17778.3	21124.4	21045.6	17939.1	10775.1	5523.7	2905.5
75°	11686.0	11907.8	13621.0	17735.2	22441.7	22431.3	17017.7	6850.0	2284.8	1204.2
77.5°	6266.5	6617.8	8843.0	13094.1	17519.4	17782.8	11964.4	2396.4	980.9	771.0
80°	2043.7	2350.3	3524.7	6666.9	11383.9	11334.7	5127.8	940.7	671.3	546.3
82.5°	867.8	903.5	1574.8	3148.1	5842.3	5751.5	1632.9	540.3	471.8	373.6
85°	339.4	379.6	695.1	1455.7	2530.4	2475.3	589.4	267.9	302.2	244.1
87.5°	111.6	135.5	248.6	498.6	787.4	759.1	144.4	92.3	131.0	111.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P943099
 CATALOG NUMBER: GALN-SB7B-930-U-T4FT

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3669.1	0°	3669.1	3669.1	3669.1	3669.1	3669.1	3669.1	3669.1	3669.1	3669.1	3669.1
3679.5	2.5°	3700.3	3724.2	3752.4	3794.1	3829.8	3859.6	3890.9	3910.2	3917.7	3940.0
3685.5	5°	3727.1	3779.2	3849.2	3917.7	3984.6	4024.8	4060.6	4078.4	4094.8	4106.7
3701.8	7.5°	3771.8	3838.8	3948.9	4038.2	4094.8	4127.5	4151.4	4145.4	4151.4	4154.3
3719.7	10°	3810.5	3904.3	4035.3	4120.1	4163.3	4164.8	4158.8	4138.0	4127.5	4129.0
3746.5	12.5°	3856.6	3960.8	4102.2	4173.7	4185.6	4152.8	4127.5	4091.8	4078.4	4072.5
3786.7	15°	3919.2	4038.2	4175.2	4202.0	4172.2	4130.5	4087.4	4029.3	3999.5	3975.7
3855.2	17.5°	3995.1	4126.1	4231.7	4212.4	4148.4	4079.9	4010.0	3922.1	3861.1	3835.8
3948.9	20°	4100.7	4218.3	4274.9	4190.1	4093.3	3989.1	3870.0	3762.9	3706.3	3681.0
4068.0	22.5°	4228.8	4341.9	4316.6	4151.4	4014.4	3847.7	3698.9	3620.0	3591.7	3573.8
4221.3	25°	4382.1	4478.8	4346.3	4094.8	3884.9	3660.2	3545.5	3520.2	3506.8	3493.5
4408.9	27.5°	4581.5	4633.6	4368.7	4011.4	3682.5	3460.7	3419.0	3423.5	3419.0	3396.7
4669.3	30°	4845.0	4834.6	4389.5	3876.0	3450.3	3280.6	3283.6	3302.9	3305.9	3291.0
5032.5	32.5°	5191.8	5086.1	4399.9	3700.3	3228.5	3122.8	3125.8	3146.6	3161.5	3136.2
5507.4	35°	5611.6	5379.3	4383.6	3480.1	3057.3	2972.5	2950.2	2956.1	2960.6	2936.8
6083.4	37.5°	6101.3	5708.3	4310.6	3235.9	2915.9	2825.1	2777.5	2737.3	2713.5	2691.2
6735.4	40°	6638.6	6067.0	4176.7	2997.8	2758.1	2668.8	2597.4	2521.5	2441.1	2411.3
7426.0	42.5°	7201.2	6436.2	4014.4	2770.1	2576.6	2503.6	2427.7	2317.6	2197.0	2136.0
8143.4	45°	7784.7	6814.2	3855.2	2545.3	2390.5	2359.2	2271.4	2138.9	2008.0	1930.6
8862.4	47.5°	8356.3	7171.5	3621.5	2319.0	2216.3	2250.6	2182.1	2060.0	1914.2	1792.1
9575.4	50°	8902.6	7506.4	3238.9	2089.8	2074.9	2217.8	2152.3	1976.7	1810.0	1653.7
10274.9	52.5°	9444.4	7777.3	2749.2	1881.4	1999.0	2208.9	2113.6	1920.1	1716.2	1552.5
10932.9	55°	9904.3	7917.2	2277.4	1702.8	1888.9	2133.0	2067.5	1853.2	1583.7	1409.6
11383.9	57.5°	10166.3	7804.1	1884.4	1527.2	1737.1	2008.0	1988.6	1710.3	1426.0	1292.0
11471.7	60°	10053.2	7345.6	1562.9	1373.9	1592.7	1872.5	1851.7	1568.9	1305.4	1178.9
11001.3	62.5°	9429.5	6471.9	1308.4	1239.9	1461.7	1734.1	1714.7	1460.2	1213.1	1091.1
9752.5	65°	8173.2	5264.7	1110.4	1128.3	1329.2	1567.4	1595.6	1369.4	1140.2	1021.1
7545.1	67.5°	6233.7	3813.5	955.6	1031.5	1199.7	1403.6	1485.5	1303.9	1079.1	966.0
4365.7	70°	3553.0	2165.7	824.6	937.7	1085.1	1251.8	1400.7	1251.8	1013.7	919.9
1635.8	72.5°	1347.1	994.3	713.0	844.0	975.0	1123.8	1306.9	1169.9	937.7	867.8
845.5	75°	718.9	605.8	599.9	733.8	848.4	998.8	1189.3	1089.6	881.2	916.9
585.0	77.5°	489.7	428.7	501.6	628.1	710.0	860.3	1064.3	967.5	763.6	760.6
404.9	80°	339.4	303.6	407.8	506.1	549.2	723.4	928.8	830.6	622.2	580.5
250.1	82.5°	203.9	198.0	305.1	378.1	388.5	558.2	769.5	696.6	509.1	443.6
148.8	85°	111.6	117.6	195.0	221.8	226.2	390.0	602.8	538.8	391.5	329.0
53.6	87.5°	31.3	40.2	71.4	87.8	108.7	202.4	358.7	320.0	196.5	136.9
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>
3669.1
3938.5
4109.7
4158.8
4132.0
4069.5
3983.2
3837.3
3678.0
3576.8
3493.5
3401.2
3298.5
3148.1
2953.1
2706.0
2424.7
2143.4
1924.6
1778.7
1640.3
1534.6
1394.7
1274.1
1161.0
1071.7
1001.7
948.2
908.0
855.9
946.7
701.1
555.2
446.5
331.9
136.9
0.0

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