

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: P951612

Luminaire Tested: **GALN-SB5C-950-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951612
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5C-950-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26266 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

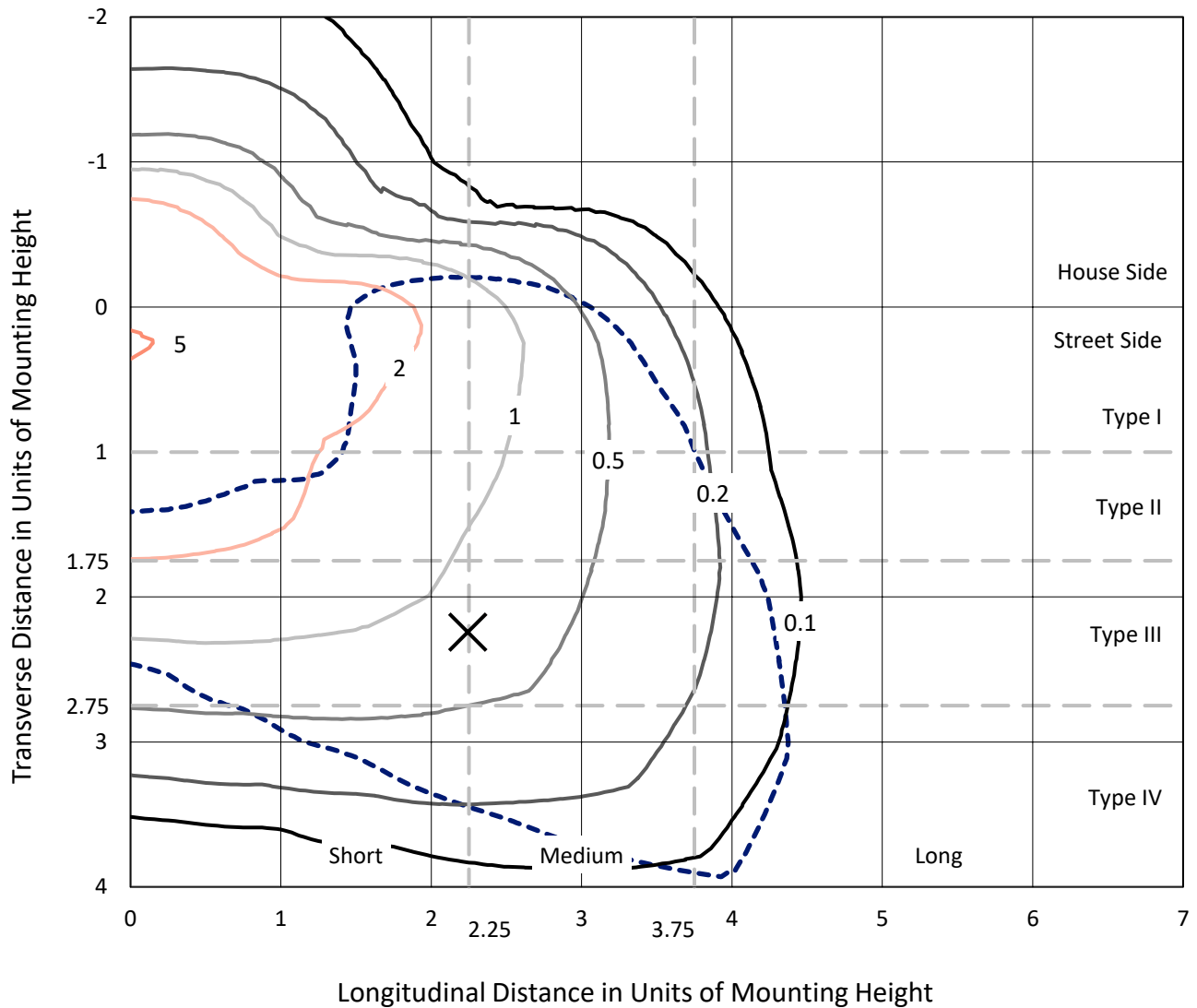
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

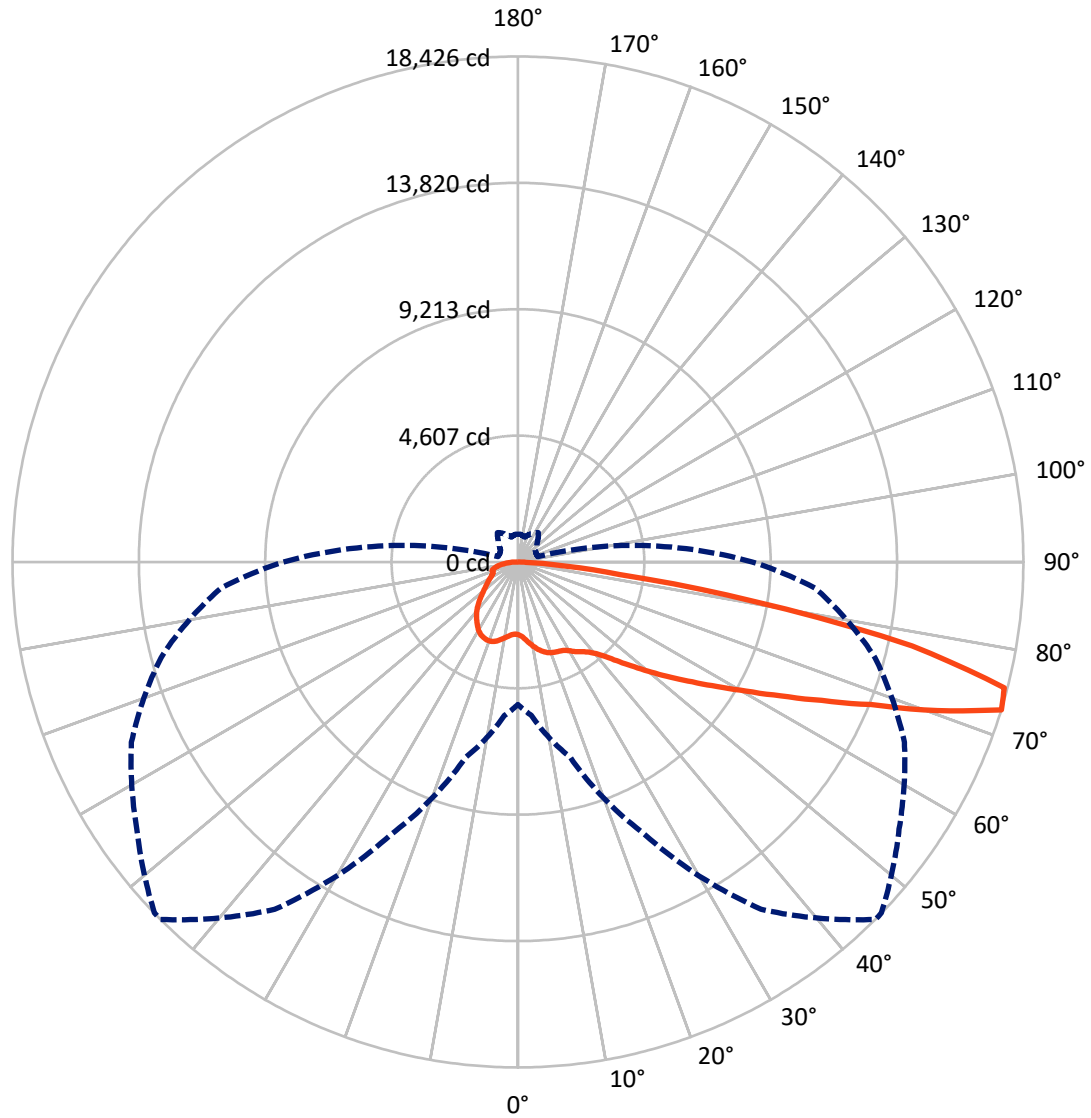
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5937.8	0.0	5937.8
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	20328.2	0.0	20328.2
	% Fixture	77.4	0.0	77.4
Total	Lumens	26266.0	0.0	26266.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.7	1.0
10°-20°	899.2	3.4
20°-30°	1564.2	6.0
30°-40°	2242.3	8.5
40°-50°	3157.3	12.0
50°-60°	4836.1	18.4
60°-70°	7005.8	26.7
70°-80°	5594.6	21.3
80°-90°	696.8	2.7
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°	26266.0	100.0
0°-180°	26266.0	100.0

Coefficient of Utilization



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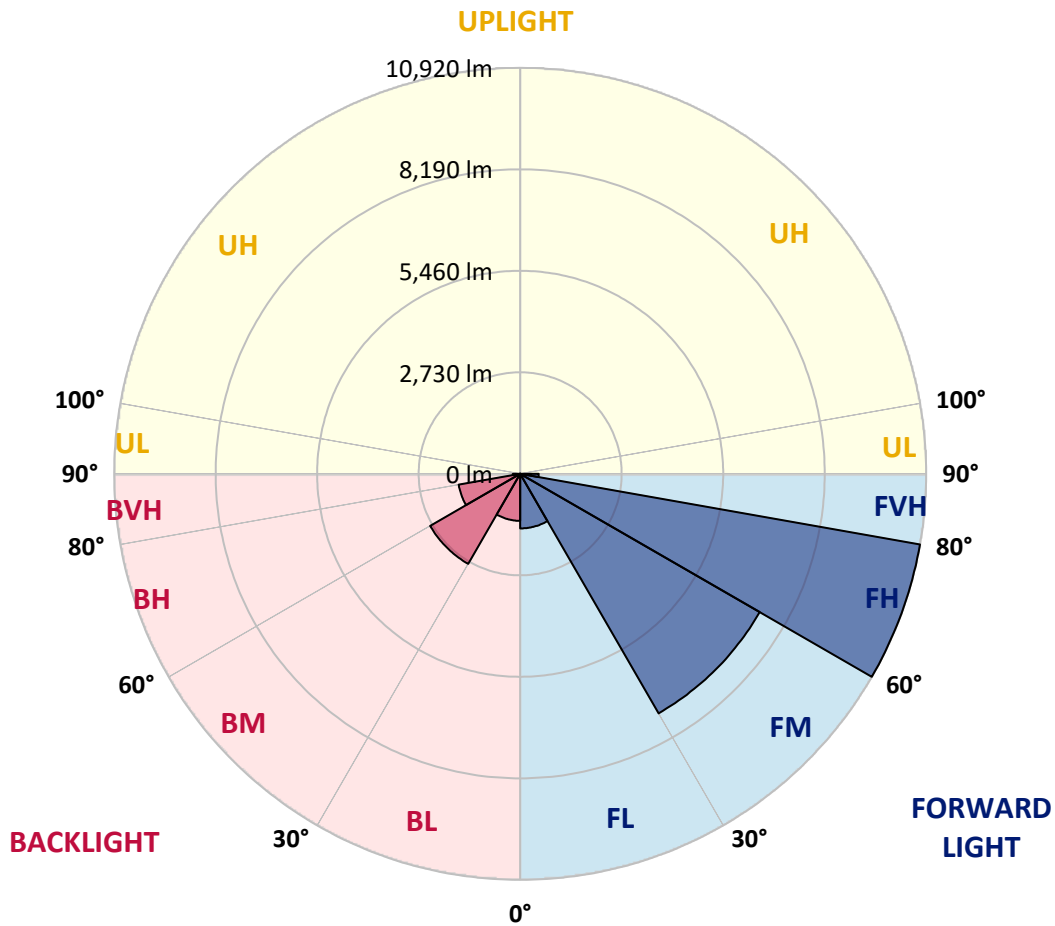
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1468.8	5.6			
FM (30°-60°)	7439.9	28.3			
FH (60°-80°)	10919.6	41.6			G4/12000
FVH (80°-90°)	499.9	1.9			G3/500
BL (0°-30°)	1264.2	4.8	B3/2500		
BM (30°-60°)	2795.9	10.6	B3/5000		
BH (60°-80°)	1680.8	6.4	B3/2500		G3/2500
BVH (80°-90°)	196.9	0.7			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°	45°	46°	55°	65°	75°
0°	2649.7	2649.7	2649.7	2649.7	2649.7	2649.7	2649.7	2649.7	2649.7	2649.7
2.5°	2753.5	2771.5	2754.9	2739.7	2732.7	2714.8	2713.4	2702.3	2695.4	2676.0
5°	2945.8	2969.4	2941.7	2911.2	2883.6	2839.3	2833.8	2801.9	2766.0	2724.4
7.5°	3163.1	3183.8	3152.0	3106.3	3057.9	2984.6	2983.2	2925.1	2868.3	2797.8
10°	3352.6	3380.3	3337.4	3275.1	3214.3	3131.2	3121.6	3055.1	2983.2	2891.9
12.5°	3520.1	3539.4	3497.9	3421.8	3351.2	3268.2	3255.8	3182.4	3102.2	2998.4
15°	3652.9	3677.8	3622.4	3540.8	3466.1	3384.5	3373.4	3307.0	3226.7	3117.4
17.5°	3740.1	3760.8	3704.1	3612.8	3540.8	3473.0	3464.7	3409.4	3338.8	3228.1
20°	3773.3	3795.4	3735.9	3643.2	3576.8	3524.2	3520.1	3479.9	3431.5	3330.5
22.5°	3806.5	3827.2	3749.7	3652.9	3594.8	3561.6	3560.2	3533.9	3514.5	3431.5
25°	3940.7	3946.2	3842.5	3702.7	3619.7	3590.6	3589.2	3587.9	3596.2	3531.1
27.5°	4056.9	4055.5	3967.0	3835.5	3706.9	3646.0	3644.6	3658.4	3684.7	3630.8
30°	4227.1	4211.9	4106.7	3969.7	3852.1	3758.0	3749.7	3737.3	3758.0	3715.2
32.5°	4588.2	4539.8	4369.6	4126.1	3972.5	3900.6	3889.5	3812.0	3820.3	3794.0
35°	5105.7	5042.1	4815.2	4422.2	4122.0	4019.6	4014.0	3915.8	3899.2	3875.7
37.5°	5721.5	5642.6	5378.3	4851.1	4379.3	4157.9	4149.6	4061.1	3993.3	3968.4
40°	6340.0	6240.4	6021.7	5374.2	4758.4	4389.0	4362.7	4228.5	4151.0	4109.5
42.5°	6940.5	6857.5	6670.7	5960.9	5226.1	4726.6	4668.5	4438.8	4380.7	4342.0
45°	7471.8	7397.1	7260.1	6587.7	5774.1	5186.0	5129.3	4754.3	4736.3	4736.3
47.5°	7903.5	7886.9	7741.6	7226.9	6420.2	5709.0	5610.8	5192.9	5241.3	5316.1
50°	8382.3	8336.6	8181.6	7856.5	7179.9	6308.2	6227.9	5731.2	5912.4	6117.2
52.5°	8822.3	8847.2	8674.2	8512.3	8037.7	6976.5	6835.3	6366.3	6757.8	7096.8
55°	9274.7	9276.1	9227.7	9205.6	8937.1	7715.3	7560.4	7130.1	7752.7	8173.3
57.5°	9699.5	9702.3	9774.2	9969.3	9980.4	8567.7	8392.0	8068.2	8858.3	9287.2
60°	10078.7	10098.0	10294.5	10751.1	10897.8	9544.6	9378.5	9176.5	10001.2	10432.9
62.5°	10206.0	10276.5	10713.8	11362.7	11804.1	10742.8	10579.5	10459.2	11202.2	11603.5
65°	9990.1	10152.0	10997.4	11867.7	12736.7	12166.6	12004.7	11873.3	12450.3	12828.0
67.5°	9460.2	9669.1	10980.8	12397.7	13868.5	13879.6	13728.8	13420.2	13788.3	13933.6
70°	8064.0	8376.7	10013.6	12595.5	15167.8	16222.1	16076.9	15282.6	15123.5	14420.6
72.5°	5195.7	5616.3	7373.6	10967.0	15457.0	18426.3	18418.0	16963.8	15545.5	13474.2
75°	1895.6	2153.0	3426.0	6883.8	12974.7	18314.3	18368.2	16676.0	14190.9	10408.0
77.5°	690.5	755.5	1118.0	2645.6	7979.6	14694.6	14806.7	13331.7	10100.8	5223.4
80°	362.5	398.5	572.8	1026.7	3419.0	8726.8	8902.5	7922.9	4747.4	1573.2
82.5°	200.6	217.2	321.0	557.6	1540.0	3731.8	3836.9	3129.9	1670.1	666.9
85°	107.9	114.8	150.8	304.4	752.7	1293.7	1322.8	935.4	665.5	391.6
87.5°	31.8	38.7	49.8	96.9	294.7	290.6	297.5	185.4	262.9	197.9
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°
2649.7	0°	2649.7	2649.7	2649.7	2649.7	2649.7	2649.7	2649.7	2649.7	2649.7	2649.7
2670.5	2.5°	2662.2	2658.0	2642.8	2635.9	2627.6	2626.2	2633.1	2634.5	2635.9	2637.3
2700.9	5°	2687.1	2673.3	2659.4	2651.1	2653.9	2655.3	2669.1	2678.8	2685.7	2691.2
2757.7	7.5°	2735.5	2724.4	2700.9	2699.5	2703.7	2716.1	2734.1	2756.3	2768.7	2778.4
2831.0	10°	2807.5	2786.7	2759.0	2763.2	2771.5	2789.5	2826.8	2844.8	2865.6	2883.6
2920.9	12.5°	2880.8	2862.8	2831.0	2833.8	2847.6	2879.4	2915.4	2937.5	2951.4	2965.2
3017.8	15°	2976.3	2944.4	2909.9	2909.9	2934.8	2969.4	2986.0	3003.9	3012.2	3027.5
3121.6	17.5°	3074.5	3033.0	2987.3	2984.6	3015.0	3031.6	3041.3	3044.1	3046.8	3063.4
3222.6	20°	3172.8	3127.1	3062.1	3056.5	3063.4	3060.7	3059.3	3056.5	3060.7	3081.4
3326.3	22.5°	3269.6	3217.0	3127.1	3102.2	3082.8	3056.5	3055.1	3053.8	3056.5	3077.3
3438.4	25°	3383.1	3319.4	3199.0	3124.3	3059.3	3023.3	3027.5	3028.9	3031.6	3048.2
3554.6	27.5°	3506.2	3435.7	3265.5	3117.4	2999.8	2974.9	2968.0	2972.1	2981.8	3008.1
3670.9	30°	3629.4	3546.3	3326.3	3089.7	2925.1	2890.5	2868.3	2878.0	2908.5	2934.8
3771.9	32.5°	3741.4	3658.4	3374.8	3028.9	2829.6	2775.6	2746.6	2759.0	2789.5	2799.2
3884.0	35°	3872.9	3778.8	3395.5	2932.0	2725.8	2642.8	2604.1	2586.1	2601.3	2591.6
4015.4	37.5°	4019.6	3921.3	3392.8	2804.7	2604.1	2508.6	2454.6	2386.8	2355.0	2321.8
4209.1	40°	4236.8	4095.7	3359.6	2651.1	2453.2	2366.1	2269.2	2154.4	2082.4	2017.4
4521.8	42.5°	4532.9	4337.8	3298.7	2482.3	2283.1	2201.4	2070.0	1935.8	1822.3	1714.4
4996.4	45°	4974.3	4654.7	3222.6	2302.4	2099.0	2018.8	1876.3	1725.4	1596.8	1458.4
5670.3	47.5°	5610.8	5080.8	3150.6	2097.6	1905.3	1832.0	1703.3	1563.5	1411.3	1277.1
6644.4	50°	6485.3	5692.4	3084.2	1898.4	1714.4	1659.0	1556.6	1414.1	1260.5	1152.6
7785.9	52.5°	7597.7	6524.0	3056.5	1706.1	1535.9	1515.1	1433.5	1300.6	1155.4	1064.0
9117.0	55°	8874.9	7518.9	3056.5	1522.0	1379.5	1386.4	1329.7	1206.6	1080.6	999.0
10489.6	57.5°	10178.3	8526.2	3001.2	1351.8	1246.7	1275.7	1239.8	1131.8	1018.4	934.0
11932.8	60°	11379.3	9370.2	2777.0	1196.9	1129.1	1174.7	1151.2	1058.5	920.1	849.6
13139.3	62.5°	12302.2	9846.2	2345.3	1073.7	1032.2	1084.8	1072.3	961.7	902.2	873.1
14130.0	65°	12764.4	9768.7	1793.2	964.4	950.6	1032.2	1005.9	1001.8	954.7	921.5
14452.4	67.5°	12480.7	9101.8	1300.6	884.2	903.5	983.8	1084.8	1101.4	1014.2	949.2
13544.7	70°	11236.8	7895.2	968.6	808.1	844.0	985.2	1237.0	1152.6	994.9	918.8
10863.2	72.5°	8548.3	5887.5	751.3	727.8	766.6	992.1	1304.8	1129.1	939.5	1015.6
6767.5	75°	4888.5	3232.3	603.3	629.6	669.7	927.1	1270.2	1068.2	896.6	932.6
2681.6	77.5°	1863.8	1242.5	498.1	532.7	538.2	809.4	1214.9	1064.0	853.7	833.0
803.9	80°	646.2	485.7	412.3	423.4	416.5	719.5	1165.1	925.7	698.8	625.4
332.1	82.5°	264.3	242.1	326.5	312.7	296.1	559.0	940.9	756.9	571.5	505.0
160.5	85°	114.8	153.6	215.9	189.6	171.6	387.4	754.1	640.6	482.9	416.5
52.6	87.5°	23.5	58.1	91.3	85.8	88.6	258.7	535.5	455.2	341.8	256.0
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

180°
2649.7
2642.8
2694.0
2781.2
2879.4
2970.7
3033.0
3069.0
3089.7
3091.1
3070.4
3034.4
2963.8
2833.8
2622.1
2342.6
2021.5
1704.7
1441.8
1261.9
1145.7
1057.1
990.7
920.1
838.5
863.4
910.5
938.1
906.3
1007.3
932.6
759.6
604.7
499.5
415.1
200.6
0.0

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