

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: P949550

Luminaire Tested: **GALN-SB4B-735-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949550
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-735-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22870 lumens
Efficiency: N/A
Efficacy: 155.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

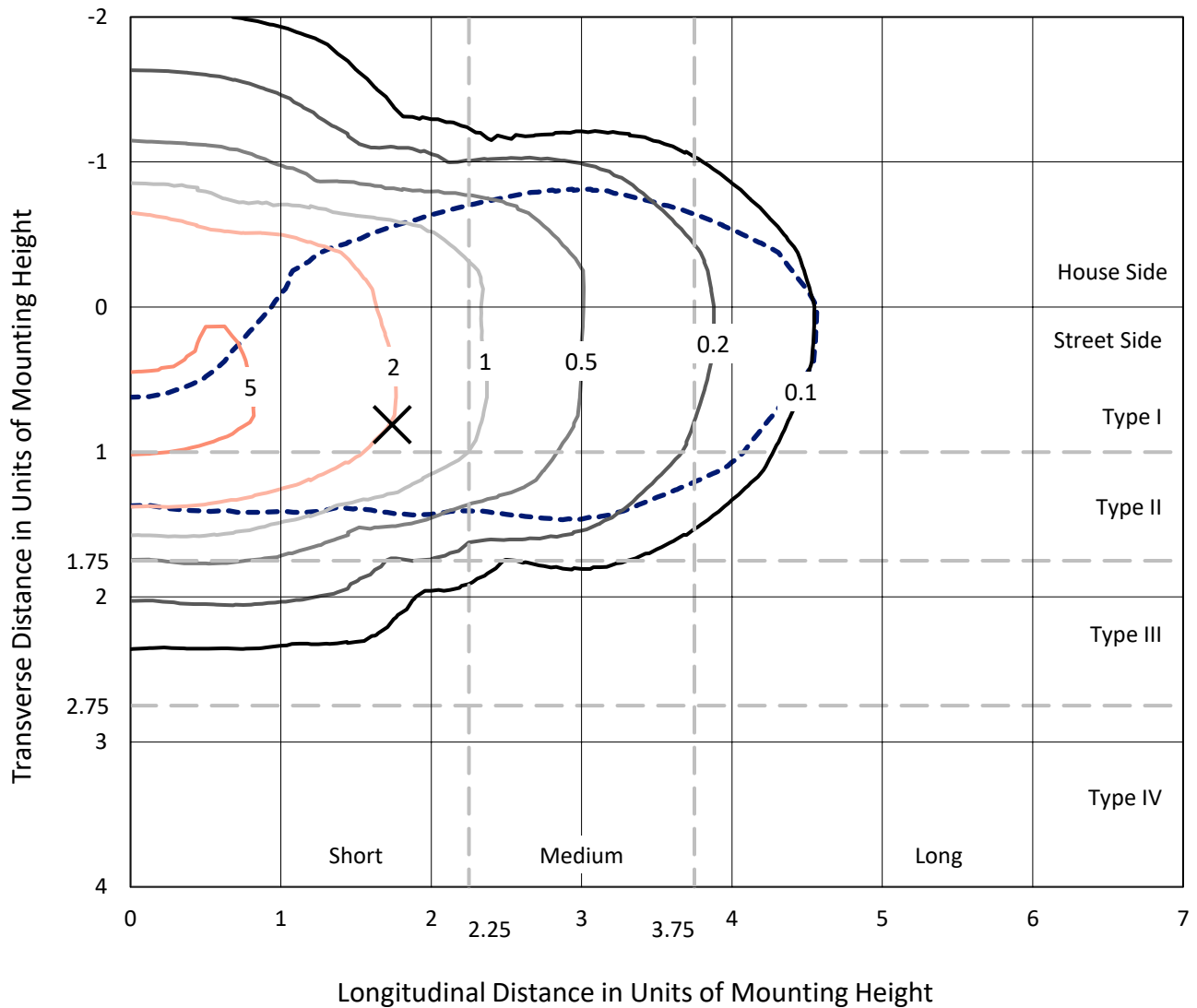
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

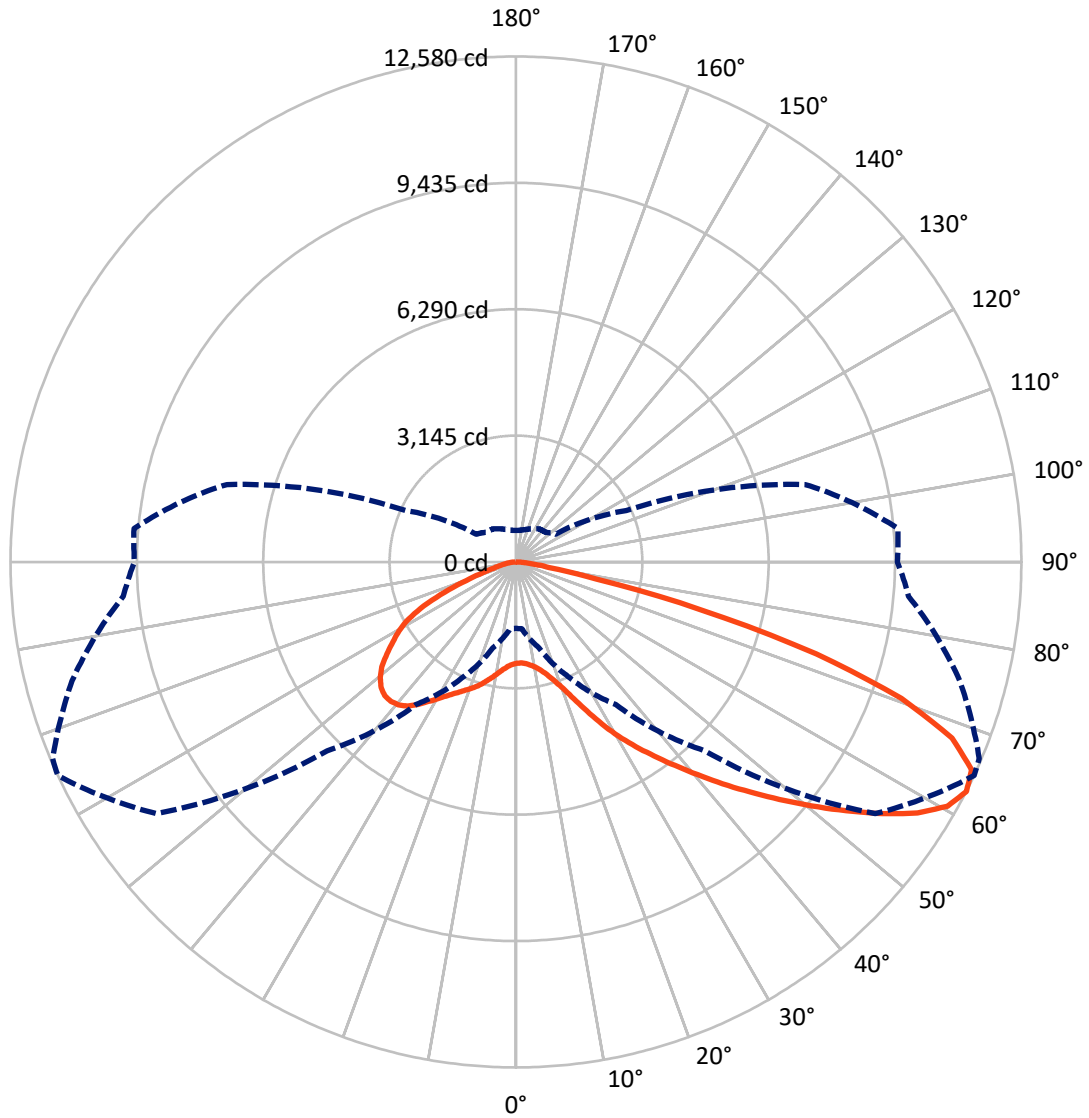
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7216.8	0.0	7216.8
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	15653.2	0.0	15653.2
	% Fixture	68.4	0.0	68.4
Total	Lumens	22870.0	0.0	22870.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.3	1.1
10°-20°	852.0	3.7
20°-30°	1727.6	7.6
30°-40°	2989.6	13.1
40°-50°	4524.2	19.8
50°-60°	5304.3	23.2
60°-70°	4447.0	19.4
70°-80°	2455.1	10.7
80°-90°	318.9	1.4
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°	22870.0	100.0
0°-180°	22870.0	100.0



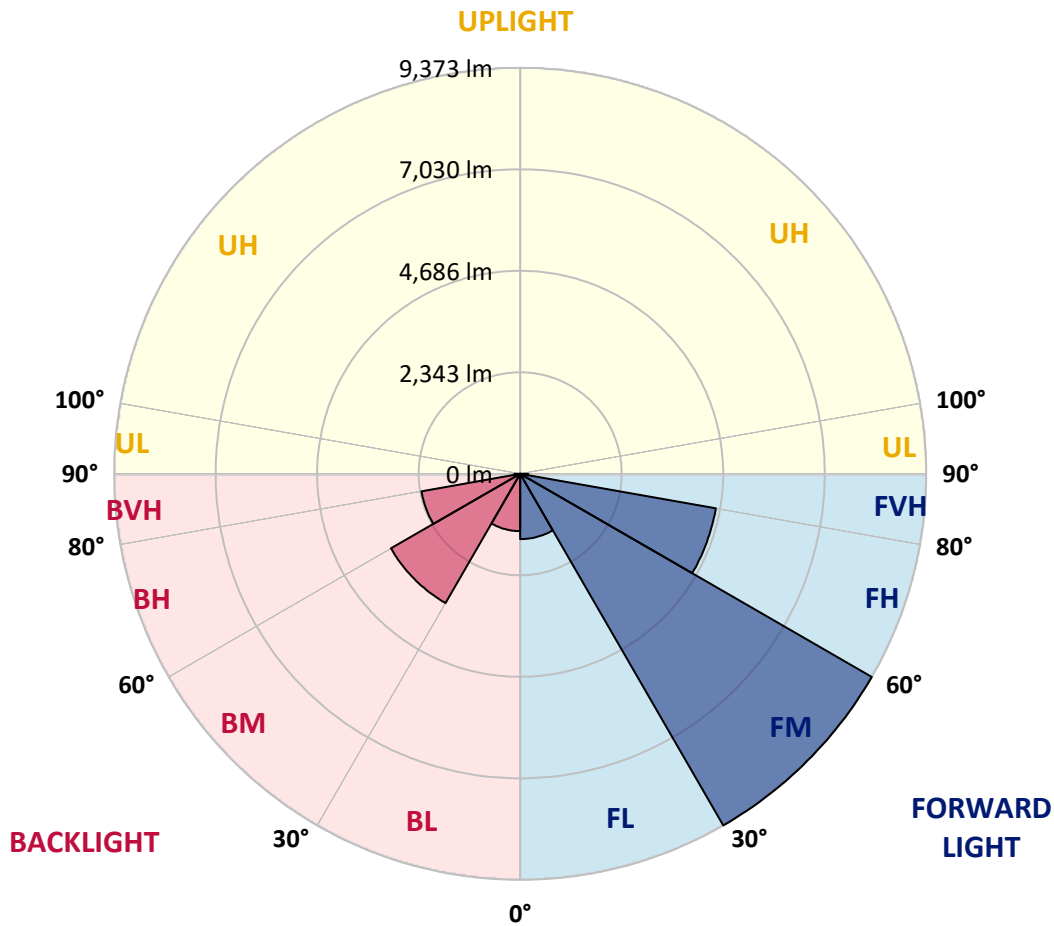
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1507.4	6.6			
FM (30°-60°)	9372.9	41.0			
FH (60°-80°)	4587.1	20.1			G2/5000
FVH (80°-90°)	185.9	0.8			G2/225
BL (0°-30°)	1323.5	5.8	B3/2500		
BM (30°-60°)	3445.2	15.1	B3/5000		
BH (60°-80°)	2315.1	10.1	B3/2500		G3/2500
BVH (80°-90°)	133.0	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	2520.2	2520.2	2520.2	2520.2	2520.2	2520.2	2520.2	2520.2	2520.2	2520.2
2.5°	2503.6	2496.4	2502.4	2502.4	2504.8	2503.6	2511.9	2514.2	2517.8	2524.9
5°	2478.6	2477.5	2488.1	2497.6	2507.1	2515.4	2526.1	2541.5	2543.9	2552.2
7.5°	2470.3	2463.2	2479.8	2491.7	2514.2	2534.4	2562.9	2589.0	2599.7	2603.2
10°	2534.4	2522.5	2538.0	2545.1	2564.1	2584.2	2617.5	2659.0	2670.9	2685.1
12.5°	2643.6	2630.5	2653.1	2663.7	2681.5	2699.3	2721.9	2762.2	2768.2	2794.3
15°	2793.1	2777.7	2791.9	2804.9	2834.6	2851.2	2873.8	2912.9	2912.9	2933.1
17.5°	2996.0	2975.8	2986.5	2991.2	3010.2	3035.1	3073.1	3107.5	3125.3	3118.2
20°	3298.5	3273.6	3273.6	3249.9	3242.8	3262.9	3312.8	3360.2	3379.2	3342.4
22.5°	3753.0	3717.4	3697.2	3616.5	3584.5	3586.9	3636.7	3694.8	3710.3	3645.0
25°	4330.8	4275.0	4247.8	4129.1	4056.7	3993.8	4033.0	4107.7	4129.1	4048.4
27.5°	4908.6	4912.2	4886.1	4743.7	4623.9	4508.8	4488.6	4566.9	4589.5	4498.1
30°	5719.0	5634.8	5585.0	5414.1	5243.2	5081.9	4998.8	5030.9	5036.8	4927.6
32.5°	6417.9	6396.5	6289.8	6140.3	5920.7	5668.0	5529.2	5478.2	5468.7	5313.2
35°	7214.1	7202.2	7089.5	6911.5	6674.2	6323.0	6072.6	5926.7	5914.8	5696.5
37.5°	8023.3	8023.3	7912.9	7718.3	7472.7	7033.7	6652.8	6421.5	6383.5	6098.7
40°	8668.7	8629.6	8649.8	8567.9	8286.7	7820.4	7297.1	6961.3	6910.3	6568.6
42.5°	9035.4	9022.3	9143.3	9234.7	9119.6	8747.0	8006.7	7546.3	7475.1	7085.9
45°	9117.2	9103.0	9319.0	9653.6	9814.9	9661.9	8777.9	8162.1	8075.5	7627.0
47.5°	8928.6	8900.1	9216.9	9744.9	10262.2	10531.6	9613.2	8830.1	8704.3	8153.8
50°	8361.4	8334.1	8813.5	9514.7	10412.9	11122.5	10519.7	9538.5	9346.2	8718.6
52.5°	7128.6	7141.7	7892.8	8856.2	10214.8	11490.3	11300.4	10284.8	10053.4	9296.4
55°	5552.9	5581.4	6504.5	7565.3	9422.2	11434.5	11833.2	11053.6	10823.5	9839.8
57.5°	3976.0	4101.8	4966.8	6016.9	7899.9	10550.6	11949.5	11784.5	11561.5	10433.1
60°	2577.1	2599.7	3489.6	4547.9	6015.7	8979.6	11713.4	12338.7	12164.2	11038.2
62.5°	1651.6	1667.1	2209.3	3181.1	4329.6	6643.3	10918.4	12579.5	12526.1	11438.1
65°	1213.8	1201.9	1484.3	2102.5	2916.5	4097.1	9374.7	12463.2	12568.8	11688.4
67.5°	1013.3	996.7	1135.5	1455.9	2148.8	2326.8	6936.4	11707.4	12094.2	11660.0
70°	923.1	908.9	993.1	1080.9	1676.6	1557.9	3496.7	10178.0	10773.6	11336.0
72.5°	781.9	757.0	872.1	959.9	1304.0	1194.8	1445.2	7818.0	8544.2	10297.8
75°	606.3	589.7	688.2	844.8	980.1	932.6	913.6	4747.3	5539.9	7963.9
77.5°	480.5	458.0	548.2	658.5	881.6	703.6	665.6	2044.4	2829.9	5084.3
80°	361.9	341.7	416.5	520.9	677.5	530.4	430.7	834.1	1066.7	2575.9
82.5°	257.5	239.7	290.7	382.1	455.6	475.8	264.6	467.5	525.6	993.1
85°	164.9	154.2	194.6	239.7	289.5	306.1	161.4	244.4	268.2	409.4
87.5°	90.2	73.6	104.4	111.5	134.1	122.2	77.1	89.0	96.1	148.3
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°
2520.2	0°	2520.2	2520.2	2520.2	2520.2	2520.2	2520.2	2520.2	2520.2	2520.2	2520.2
2524.9	2.5°	2529.7	2533.2	2545.1	2548.7	2557.0	2567.6	2574.8	2581.9	2581.9	2589.0
2562.9	5°	2564.1	2572.4	2597.3	2610.4	2631.7	2653.1	2666.1	2681.5	2691.0	2695.8
2623.4	7.5°	2630.5	2643.6	2679.2	2701.7	2738.5	2768.2	2788.3	2809.7	2814.4	2827.5
2707.6	10°	2720.7	2736.1	2776.5	2819.2	2863.1	2899.9	2918.8	2934.3	2940.2	2942.6
2815.6	12.5°	2823.9	2846.5	2898.7	2950.9	2997.2	3029.2	3033.9	3030.4	3013.8	2999.5
2948.5	15°	2950.9	2971.1	3029.2	3086.1	3131.2	3137.2	3107.5	3088.5	3068.3	3064.8
3096.8	17.5°	3102.8	3113.4	3166.8	3222.6	3226.2	3206.0	3162.1	3144.3	3125.3	3112.2
3290.2	20°	3279.5	3276.0	3314.0	3337.7	3312.8	3251.1	3184.6	3155.0	3136.0	3120.6
3527.5	22.5°	3490.8	3463.5	3458.7	3452.8	3386.3	3257.0	3166.8	3128.9	3099.2	3077.8
3858.6	25°	3798.1	3693.6	3621.3	3580.9	3431.4	3225.0	3109.9	3025.6	2969.9	2933.1
4263.2	27.5°	4182.5	4006.9	3824.2	3725.7	3431.4	3159.7	2972.2	2835.8	2744.4	2706.5
4654.7	30°	4549.1	4365.2	4095.9	3900.1	3423.1	3052.9	2750.4	2560.5	2453.7	2415.8
4989.3	32.5°	4862.4	4661.8	4384.2	4091.1	3402.9	2879.7	2475.1	2265.1	2161.8	2116.8
5320.4	35°	5153.1	4939.5	4673.7	4301.1	3349.6	2625.8	2172.5	2012.3	1897.3	1824.9
5657.3	37.5°	5450.9	5197.0	4947.8	4491.0	3253.4	2329.1	1940.0	1803.5	1668.3	1571.0
6015.7	40°	5774.8	5471.1	5240.9	4603.7	3095.6	2046.8	1759.6	1635.0	1491.5	1388.2
6428.6	42.5°	6153.3	5799.7	5567.2	4661.8	2879.7	1846.2	1642.1	1519.9	1384.7	1300.4
6871.2	45°	6548.4	6161.6	5865.0	4660.7	2638.8	1752.5	1604.2	1483.2	1333.7	1245.8
7325.6	47.5°	6962.5	6540.1	6122.5	4584.7	2430.0	1765.5	1582.8	1403.7	1238.7	1153.3
7784.8	50°	7377.8	6954.2	6371.6	4442.3	2341.0	1737.1	1503.3	1292.1	1097.5	1020.4
8215.5	52.5°	7789.5	7394.4	6586.4	4239.4	2250.8	1631.5	1401.3	1147.4	1039.4	986.0
8660.4	55°	8203.6	7829.9	6820.1	3944.0	2025.4	1508.1	1230.4	1092.8	993.1	944.5
9095.9	57.5°	8618.9	8333.0	7042.0	3648.6	1741.8	1356.2	1136.7	1026.3	946.8	905.3
9460.1	60°	9050.8	8908.4	7271.0	3376.8	1461.8	1161.6	1067.9	972.9	892.3	846.0
9810.2	62.5°	9495.7	9542.0	7450.2	3026.8	1204.3	1043.0	1006.2	908.9	830.6	786.7
10099.7	65°	9944.2	10153.1	7567.6	2541.5	976.5	930.2	939.7	838.9	759.4	721.4
10312.1	67.5°	10282.4	10593.3	7534.4	1923.4	800.9	823.4	856.7	765.3	690.6	660.9
10277.7	70°	10320.4	10541.1	7206.9	1317.0	670.4	719.0	764.1	692.9	615.8	594.4
9793.6	72.5°	9814.9	9829.2	6294.5	860.2	567.2	631.2	666.8	619.4	544.6	523.3
8567.9	75°	8489.6	8128.9	4621.5	567.2	474.6	542.2	575.5	542.2	469.9	474.6
6410.8	77.5°	6432.1	5757.0	2806.1	403.4	396.3	455.6	500.7	477.0	415.3	466.3
3223.8	80°	3314.0	3114.6	1251.8	301.4	313.2	364.3	411.7	380.9	328.7	313.2
720.2	82.5°	759.4	882.8	493.6	215.9	226.6	262.2	314.4	286.0	236.1	199.3
300.2	85°	265.8	290.7	218.3	135.3	132.9	163.7	213.6	191.0	160.2	128.1
127.0	87.5°	84.2	110.3	81.9	54.6	57.0	73.6	98.5	90.2	74.8	48.6
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

180°
2520.2
2589.0
2698.2
2822.7
2936.6
2999.5
3064.8
3113.4
3121.7
3085.0
2947.3
2725.4
2438.3
2139.3
1848.6
1597.1
1408.4
1317.0
1260.1
1165.2
1025.2
986.0
939.7
898.2
842.4
785.5
720.2
662.1
595.6
522.1
458.0
410.5
286.0
197.0
135.3
51.0
0.0

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