

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: P941032

Luminaire Tested: **GALN-SB4B-850-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941032
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-850-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21398 lumens
Efficiency: N/A
Efficacy: 145.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

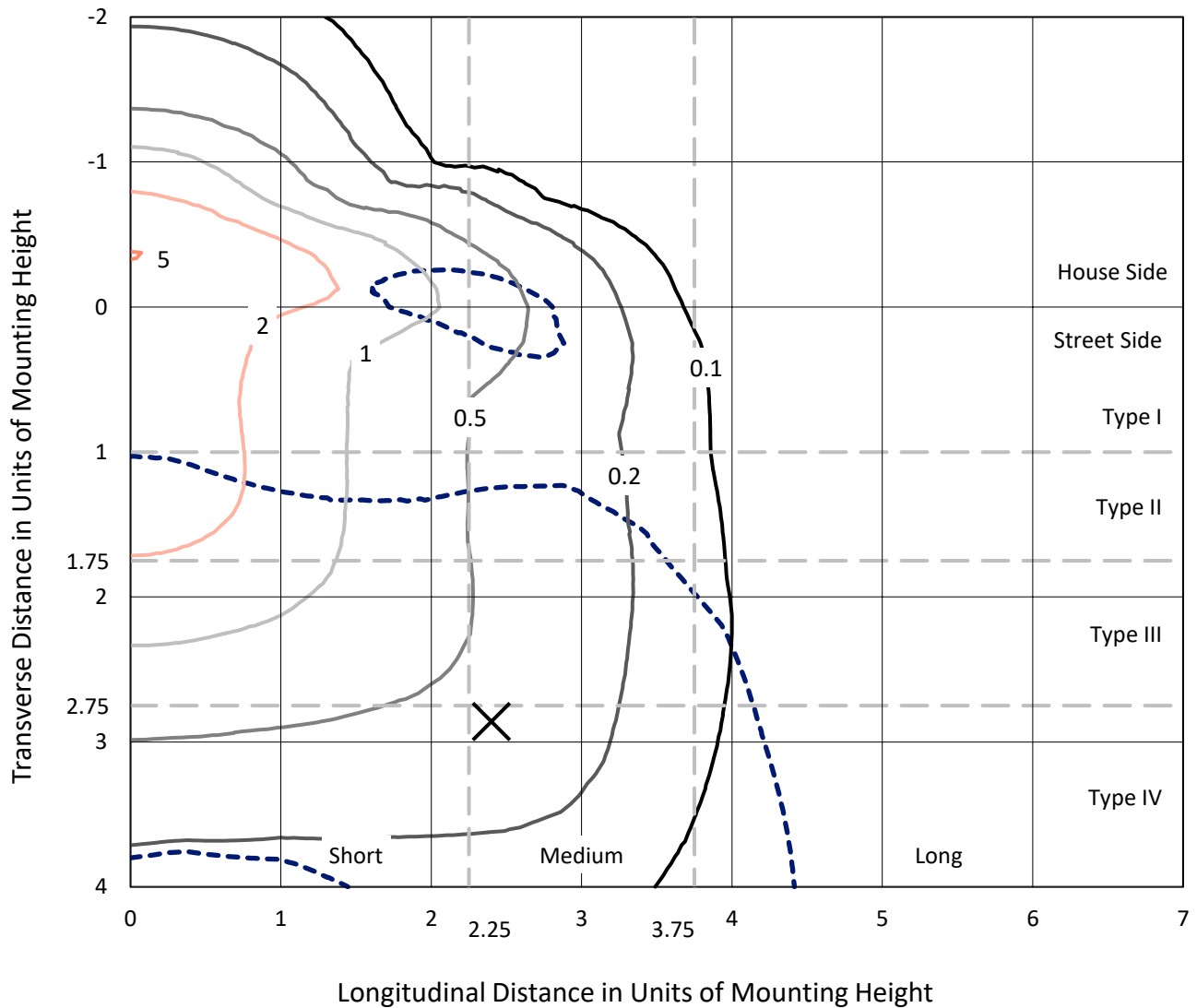
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

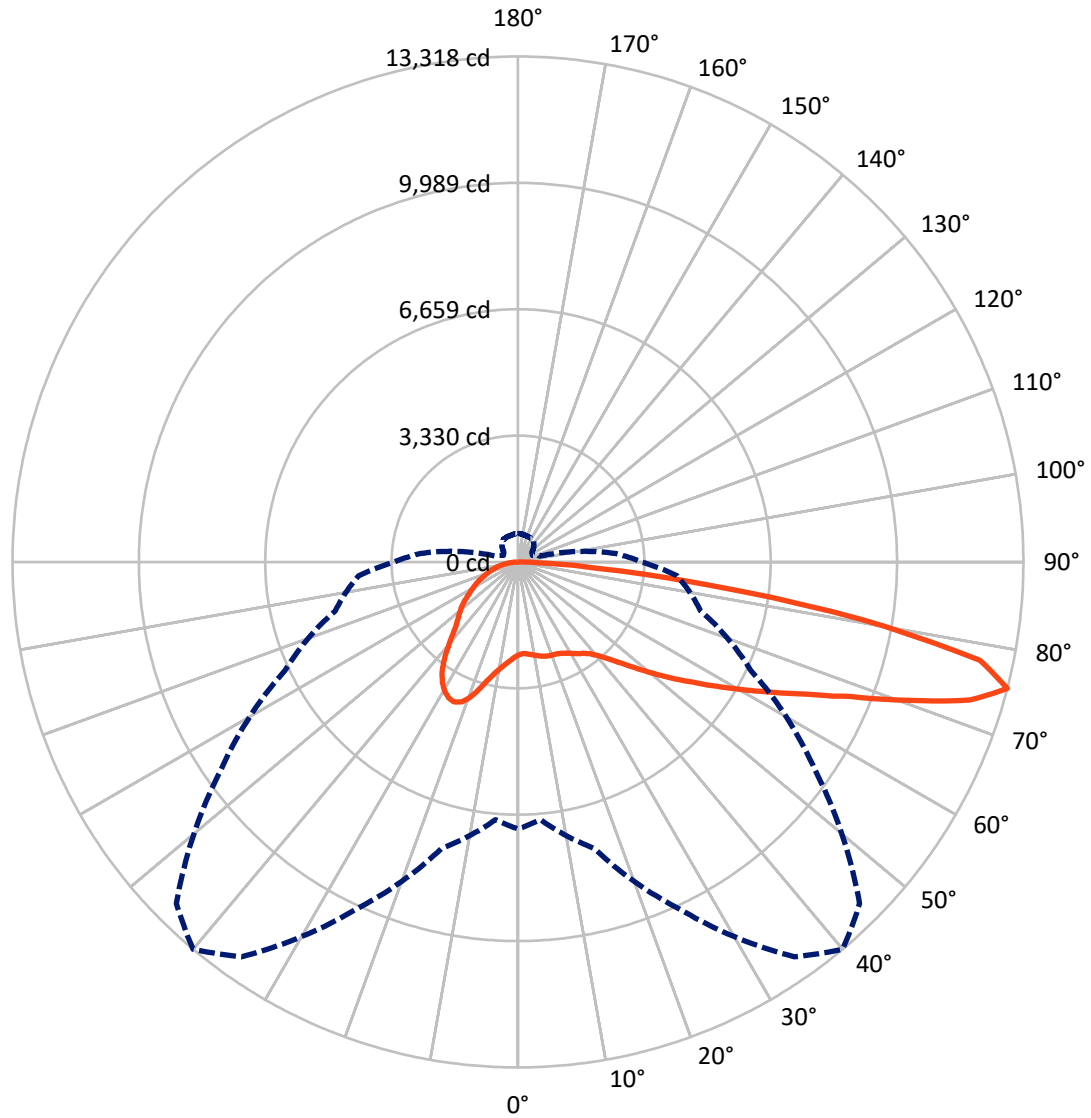
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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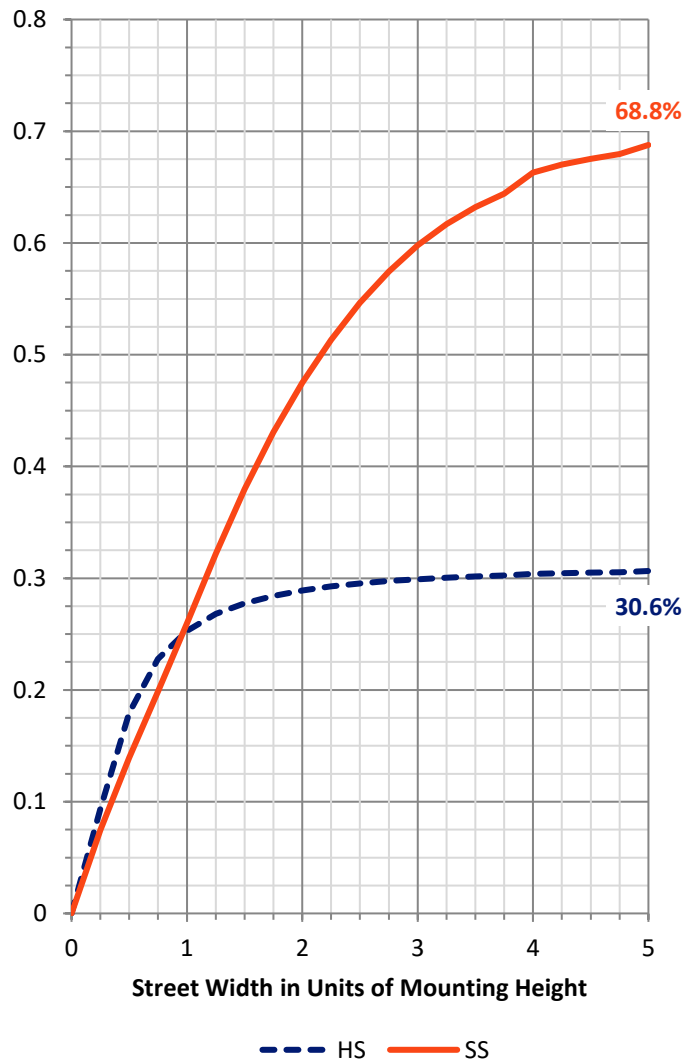
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6629.8	0.0	6629.8
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	14768.2	0.0	14768.2
	% Fixture	69.0	0.0	69.0
Total	Lumens	21398.0	0.0	21398.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.2	1.1
10°-20°	820.0	3.8
20°-30°	1497.3	7.0
30°-40°	2123.6	9.9
40°-50°	2867.6	13.4
50°-60°	3857.6	18.0
60°-70°	4896.2	22.9
70°-80°	4443.6	20.8
80°-90°	647.7	3.0
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°	21398.0	100.0
0°-180°	21398.0	100.0

Coefficient of Utilization



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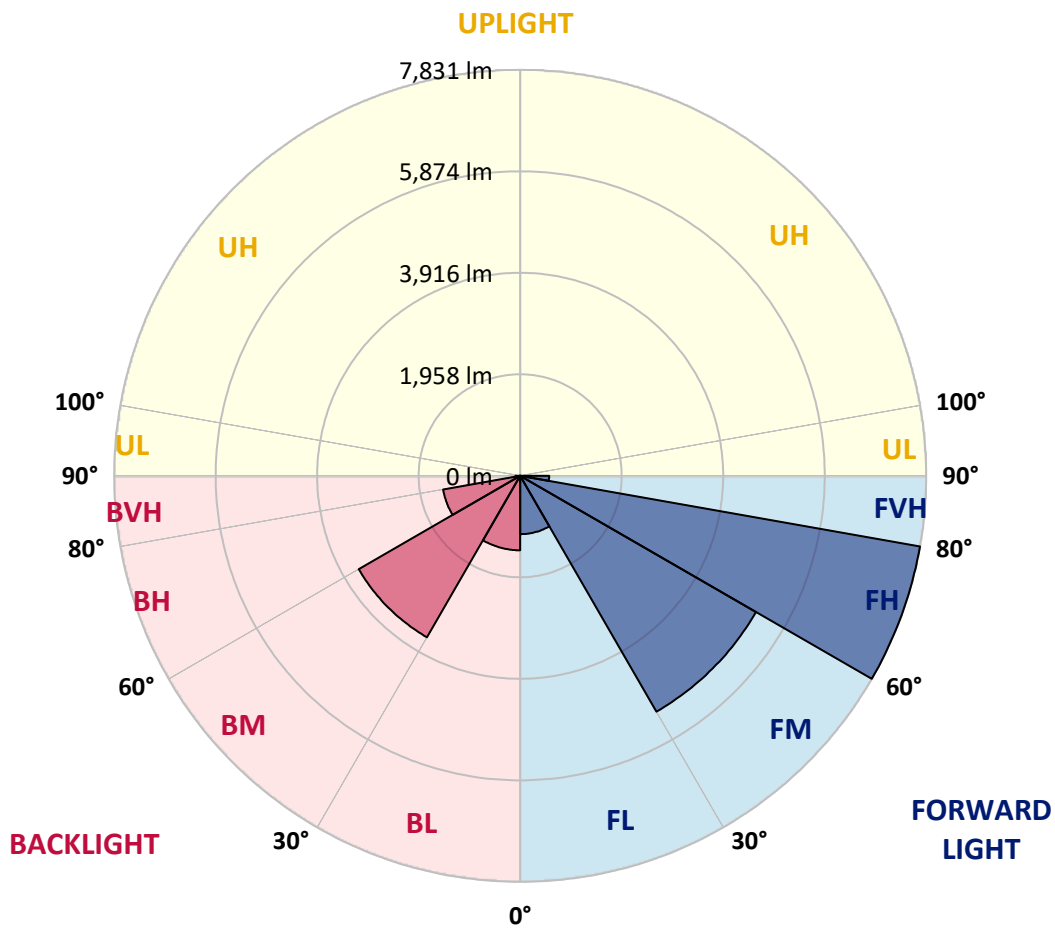
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1125.6	5.3			
FM (30°-60°)	5252.7	24.5			
FH (60°-80°)	7831.3	36.6			G4/12000
FVH (80°-90°)	558.6	2.6			G4/750
BL (0°-30°)	1436.1	6.7	B3/2500		
BM (30°-60°)	3596.1	16.8	B3/5000		
BH (60°-80°)	1508.5	7.0	B3/2500		G3/2500
BVH (80°-90°)	89.2	0.4			G1/100
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	2446.9	2446.9	2446.9	2446.9	2446.9	2446.9	2446.9	2446.9	2446.9	2446.9
2.5°	2409.4	2423.1	2419.7	2415.1	2415.1	2416.2	2415.1	2423.1	2431.0	2438.9
5°	2434.4	2448.0	2441.2	2435.5	2431.0	2429.9	2426.5	2425.3	2429.9	2440.1
7.5°	2483.2	2496.8	2486.6	2476.4	2467.3	2462.8	2458.2	2451.4	2448.0	2453.7
10°	2537.7	2551.3	2538.8	2520.7	2505.9	2500.2	2495.7	2488.9	2484.3	2487.7
12.5°	2592.2	2605.8	2588.8	2563.8	2544.5	2541.1	2535.4	2533.1	2532.0	2530.9
15°	2643.2	2654.6	2633.0	2603.5	2583.1	2577.4	2571.7	2575.1	2580.8	2587.6
17.5°	2683.0	2694.3	2662.5	2623.9	2604.6	2602.4	2599.0	2610.3	2626.2	2643.2
20°	2719.3	2730.6	2689.8	2637.6	2614.9	2614.9	2616.0	2639.8	2662.5	2687.5
22.5°	2770.3	2779.4	2729.5	2658.0	2625.1	2627.3	2636.4	2660.3	2688.6	2722.7
25°	2846.4	2853.2	2791.9	2696.6	2659.1	2665.9	2673.9	2685.2	2712.5	2752.2
27.5°	2969.0	2974.6	2894.0	2764.7	2707.9	2719.3	2730.6	2722.7	2735.2	2769.2
30°	3141.5	3144.9	3042.7	2871.4	2790.8	2796.4	2798.7	2765.8	2742.0	2769.2
32.5°	3345.7	3344.6	3223.2	3000.7	2885.0	2879.3	2860.0	2795.3	2739.7	2763.5
35°	3662.4	3649.9	3493.3	3182.3	2991.7	2956.5	2911.1	2828.2	2751.0	2757.9
37.5°	4186.7	4148.1	3931.4	3479.7	3150.5	3060.9	2993.9	2881.6	2776.0	2755.6
40°	4778.0	4729.2	4490.9	3887.1	3388.9	3244.7	3136.9	2957.6	2816.9	2765.8
42.5°	5479.4	5410.2	5153.7	4367.2	3690.8	3481.9	3319.6	3054.1	2877.0	2798.7
45°	6340.8	6248.9	5885.7	4908.5	4071.0	3792.9	3576.1	3200.5	2969.0	2862.3
47.5°	7211.3	7234.0	6717.6	5528.2	4527.2	4176.5	3897.3	3420.7	3102.9	2964.4
50°	8136.2	8152.1	7545.0	6214.8	5044.7	4610.0	4258.2	3666.9	3289.0	3109.7
52.5°	8858.1	8860.3	8296.3	6933.2	5583.8	5086.7	4647.5	3948.4	3504.6	3302.6
55°	9309.8	9304.1	8822.9	7613.1	6203.5	5587.2	5078.8	4268.4	3767.9	3529.6
57.5°	9637.7	9620.7	9186.1	8197.5	6864.0	6178.5	5566.8	4631.6	4078.9	3799.7
60°	9762.6	9752.4	9432.3	8702.6	7558.6	6832.2	6129.7	5037.9	4431.9	4118.6
62.5°	9810.3	9829.6	9674.1	9191.7	8301.9	7556.3	6748.2	5523.7	4829.1	4479.5
65°	9978.2	10013.4	9981.6	9831.8	9141.8	8404.1	7568.8	6101.3	5262.6	4866.5
67.5°	10310.8	10345.9	10359.6	10597.9	10167.8	9460.7	8592.5	6820.9	5769.9	5268.3
70°	10302.8	10292.6	10533.2	11207.3	11452.5	10923.6	9972.6	7706.1	6374.9	5602.0
72.5°	9377.9	9296.1	9864.7	11200.5	12521.6	12451.2	11657.9	8847.8	6896.9	5642.8
75°	7035.4	6817.5	7821.9	10094.0	12699.8	13318.3	12729.3	9556.0	6773.2	4985.7
77.5°	3008.7	2789.6	3973.4	7472.3	11366.2	12450.1	11746.4	8337.1	5406.8	3296.9
80°	787.6	786.5	1200.7	3387.7	7729.9	9194.0	8065.9	5384.1	3089.3	1178.0
82.5°	325.7	317.8	441.5	1317.6	3777.0	5159.4	4210.6	2401.5	1115.6	318.9
85°	121.4	120.3	214.5	455.1	1332.4	2128.0	1540.1	614.0	278.1	155.5
87.5°	34.0	32.9	46.5	157.8	324.6	492.6	263.3	101.0	78.3	61.3
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°
2446.9	0°	2446.9	2446.9	2446.9	2446.9	2446.9	2446.9	2446.9	2446.9	2446.9	2446.9
2451.4	2.5°	2454.8	2460.5	2470.7	2478.7	2488.9	2500.2	2516.1	2526.3	2536.5	2543.4
2457.1	5°	2465.0	2477.5	2503.6	2529.7	2560.4	2588.8	2621.7	2645.5	2664.8	2670.5
2477.5	7.5°	2487.7	2508.2	2552.4	2596.7	2645.5	2692.0	2739.7	2780.6	2813.5	2826.0
2513.9	10°	2527.5	2554.7	2617.1	2679.5	2744.2	2815.7	2877.0	2936.0	2982.6	3001.9
2557.0	12.5°	2577.4	2611.5	2693.2	2779.4	2869.1	2967.8	3047.3	3119.9	3177.8	3203.9
2617.1	15°	2642.1	2686.4	2790.8	2906.5	3038.2	3175.5	3276.5	3357.1	3421.8	3453.6
2679.5	17.5°	2712.5	2771.5	2903.1	3077.9	3266.3	3446.8	3564.8	3623.8	3690.8	3721.4
2737.4	20°	2780.6	2853.2	3041.6	3295.8	3546.6	3738.4	3833.8	3849.7	3854.2	3857.6
2791.9	22.5°	2850.9	2948.5	3215.2	3570.5	3839.4	3972.2	3985.8	3917.7	3822.4	3778.2
2845.2	25°	2928.1	3057.5	3442.2	3873.5	4091.4	4107.3	4002.9	3837.2	3656.7	3573.9
2888.4	27.5°	3003.0	3183.5	3714.6	4162.9	4273.0	4133.4	3908.7	3673.7	3455.8	3368.4
2919.0	30°	3077.9	3327.6	4015.4	4416.0	4355.8	4068.7	3760.0	3497.8	3278.8	3186.9
2946.3	32.5°	3153.9	3495.6	4361.5	4598.7	4341.1	3931.4	3575.0	3300.4	3107.4	3010.9
2970.1	35°	3240.2	3702.1	4689.5	4698.6	4242.3	3729.4	3331.0	3064.3	2896.3	2819.1
2998.5	37.5°	3352.6	3964.3	4978.9	4723.5	4069.8	3433.1	3028.0	2785.1	2646.6	2611.5
3040.5	40°	3492.2	4279.8	5200.2	4683.8	3814.5	3073.4	2696.6	2502.5	2424.2	2432.1
3097.2	42.5°	3673.7	4632.7	5355.7	4581.7	3459.2	2702.2	2406.0	2319.8	2357.2	2389.0
3182.3	45°	3909.8	4999.3	5452.2	4408.0	3057.5	2387.9	2234.7	2255.1	2283.5	2286.9
3319.6	47.5°	4211.7	5370.4	5515.7	4145.9	2647.8	2166.6	2125.7	2130.2	2124.6	2100.7
3525.1	50°	4588.5	5731.4	5572.5	3798.6	2299.4	2028.1	1973.6	1957.7	1879.4	1802.3
3798.6	52.5°	5017.5	6062.7	5596.3	3367.3	2028.1	1912.3	1823.8	1723.9	1577.5	1553.7
4142.5	55°	5494.2	6369.2	5535.0	2837.3	1800.0	1763.7	1629.7	1509.4	1493.6	1473.1
4595.3	57.5°	6063.9	6699.4	5410.2	2246.0	1566.2	1590.0	1459.5	1473.1	1444.8	1413.0
5177.5	60°	6687.0	7041.1	5191.1	1706.9	1324.5	1373.3	1415.2	1414.1	1406.2	1380.1
5791.5	62.5°	7247.6	7265.8	4759.9	1307.4	1112.2	1205.3	1319.9	1318.8	1312.0	1297.2
6432.7	65°	7581.3	7231.7	4040.3	1029.4	937.4	1066.8	1190.5	1199.6	1200.7	1199.6
6915.1	67.5°	7522.3	6833.4	3052.9	819.4	793.3	926.1	1062.3	1074.8	1083.8	1086.1
6976.4	70°	6854.9	5958.3	1990.7	653.7	665.1	802.4	940.8	953.3	961.3	970.4
6053.7	72.5°	5343.2	4380.8	1139.5	528.9	552.7	695.7	820.5	835.3	839.8	856.9
4212.8	75°	3256.1	2576.3	615.1	416.5	454.0	594.7	701.4	718.4	726.3	746.8
2069.0	77.5°	1548.0	1115.6	350.7	324.6	365.4	485.7	592.4	611.7	590.2	601.5
570.9	80°	523.2	414.2	221.3	247.4	279.2	379.1	474.4	493.7	448.3	446.0
189.5	82.5°	182.7	168.0	140.7	164.6	180.5	271.2	358.6	383.6	333.7	332.5
85.1	85°	71.5	68.1	78.3	89.7	107.8	166.8	236.1	248.5	205.4	165.7
25.0	87.5°	14.8	15.9	19.3	20.4	32.9	57.9	85.1	104.4	82.8	70.4
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>
2446.9
2538.8
2672.7
2827.1
3003.0
3203.9
3451.3
3720.3
3866.7
3790.6
3586.4
3378.7
3197.1
3023.4
2836.2
2636.4
2459.4
2418.5
2309.6
2118.9
1812.5
1561.7
1476.5
1407.3
1371.0
1291.5
1199.6
1088.4
974.9
863.7
749.0
592.4
441.5
316.6
163.4
64.7
0.0

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