

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: P943592

Luminaire Tested: **GALN-SB8A-927-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943592
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-SB8A-927-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21886 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

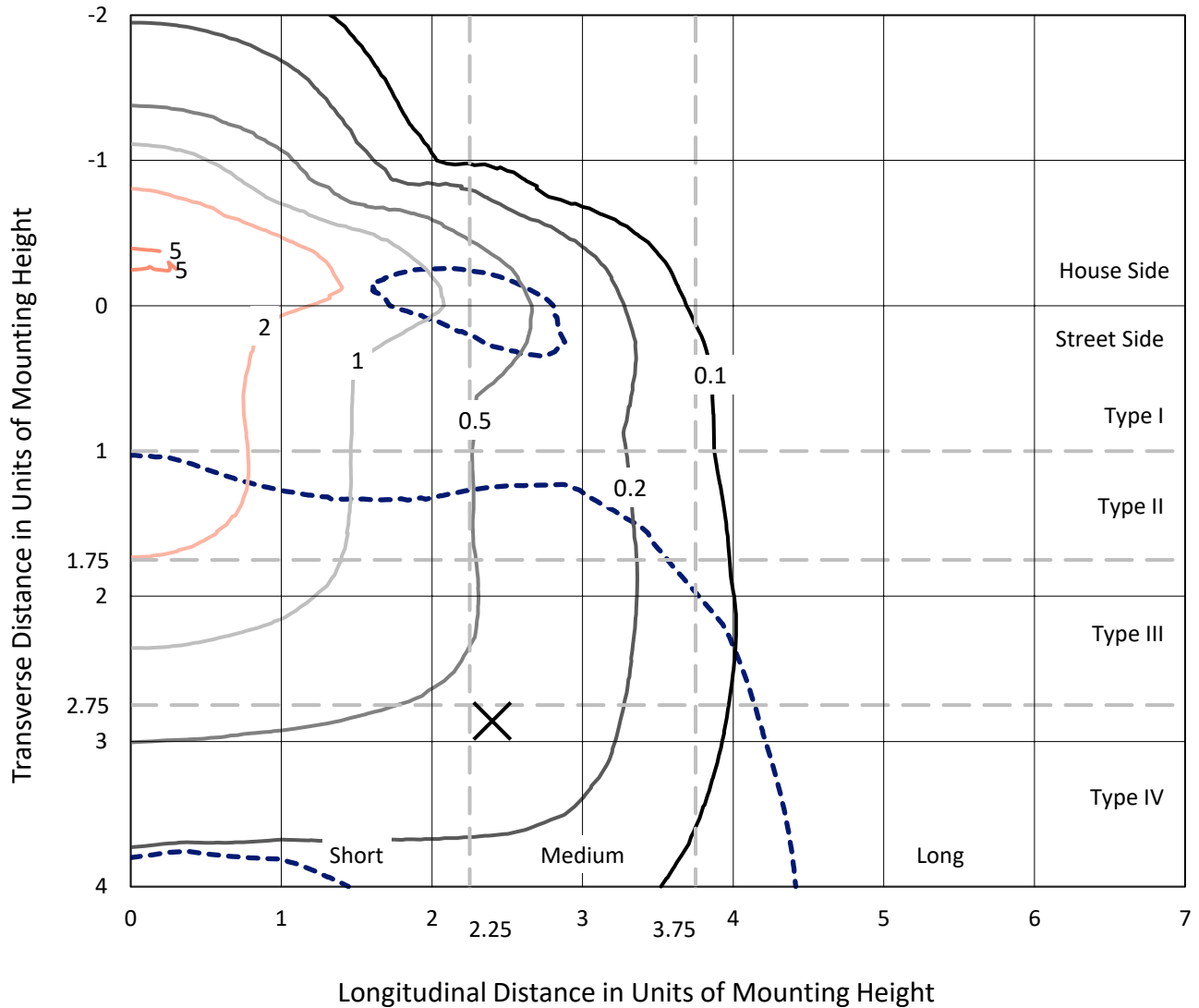
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

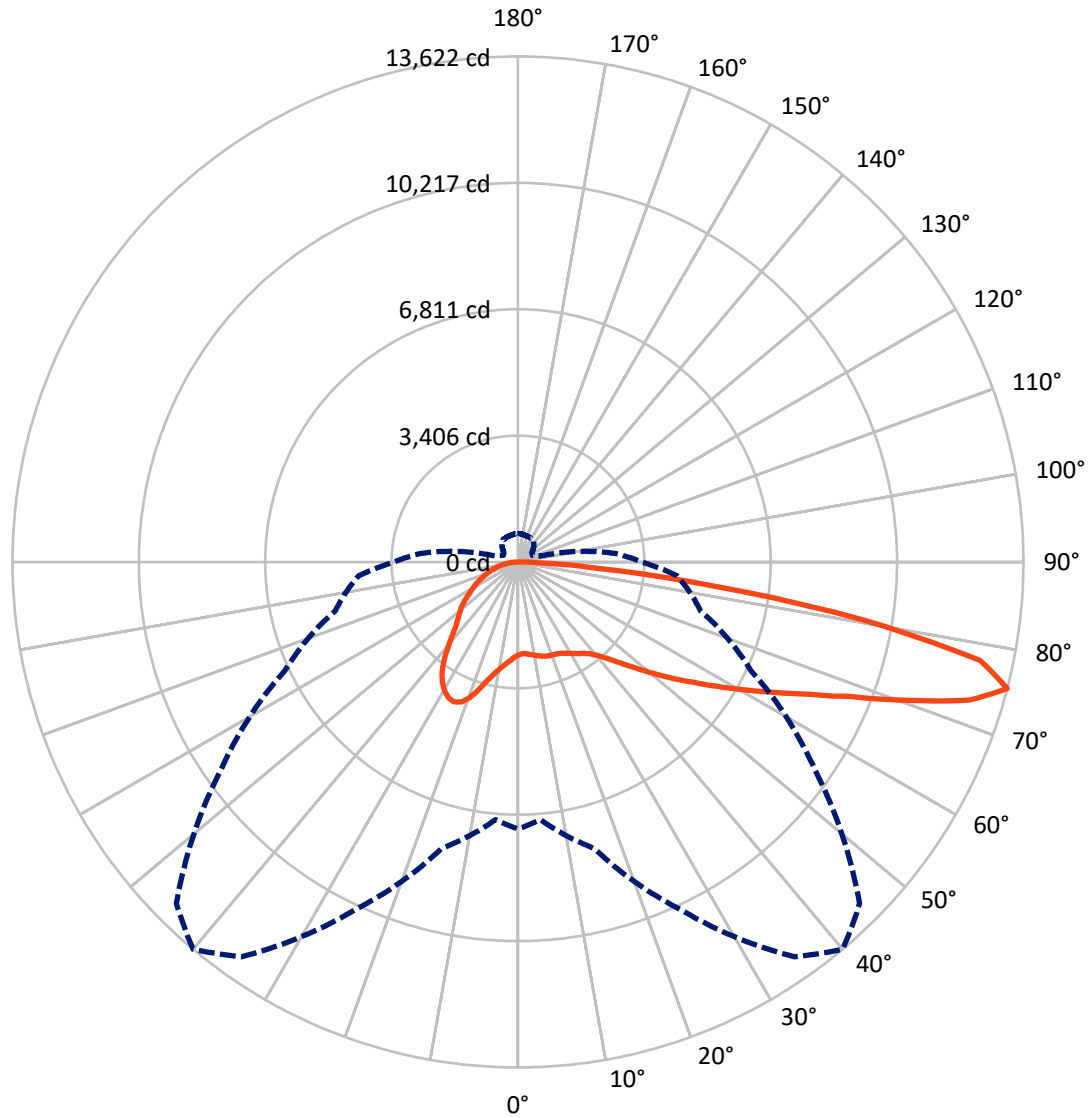
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	6781.0	0.0	6781.0
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	15105.0	0.0	15105.0
	% Fixture	69.0	0.0	69.0
Total	Lumens	21886.0	0.0	21886.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.8	1.1
10°-20°	838.7	3.8
20°-30°	1531.5	7.0
30°-40°	2172.1	9.9
40°-50°	2932.9	13.4
50°-60°	3945.6	18.0
60°-70°	5007.9	22.9
70°-80°	4545.0	20.8
80°-90°	662.5	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°	21886.0	100.0
0°-180°	21886.0	100.0

Coefficient of Utilization



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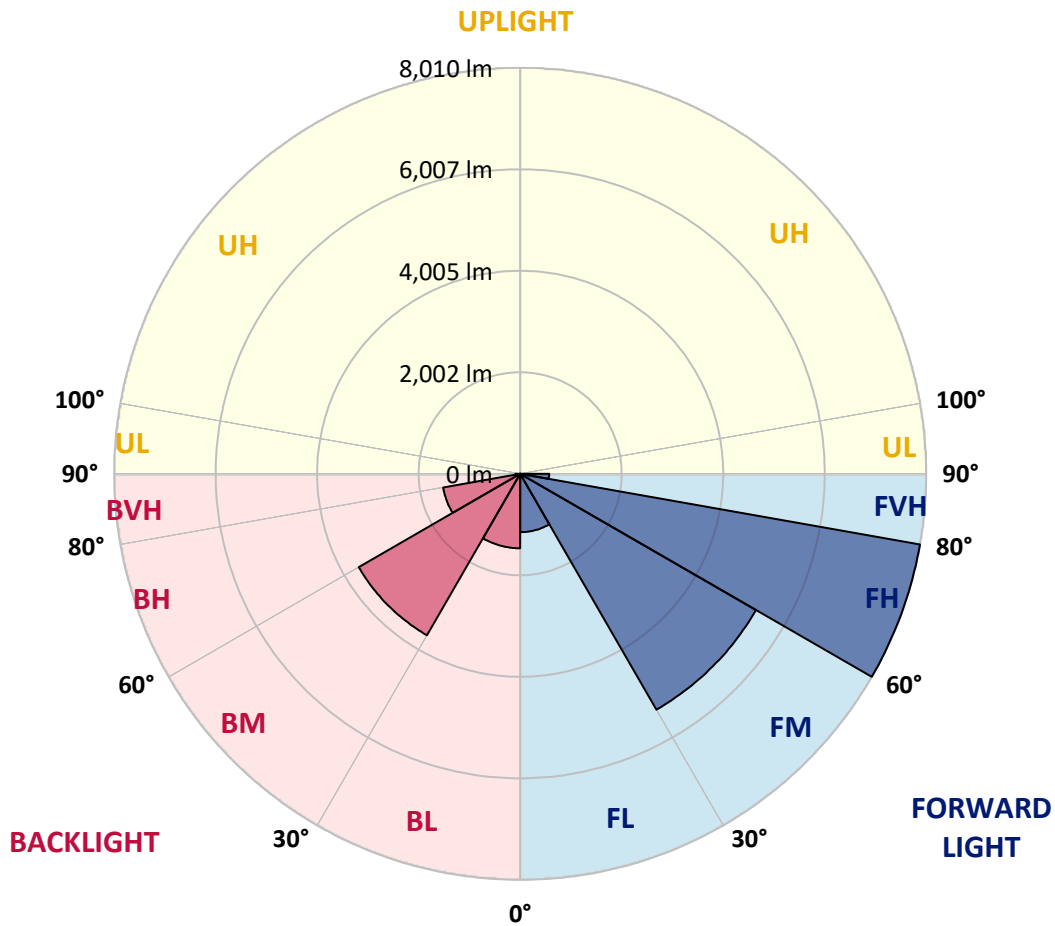
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1151.2	5.3			
FM (30°-60°)	5372.5	24.5			
FH (60°-80°)	8009.9	36.6			G4/12000
FVH (80°-90°)	571.3	2.6			G4/750
BL (0°-30°)	1468.8	6.7	B3/2500		
BM (30°-60°)	3678.1	16.8	B3/5000		
BH (60°-80°)	1542.9	7.0	B3/2500		G3/2500
BVH (80°-90°)	91.2	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°	2502.7	2502.7	2502.7	2502.7	2502.7	2502.7	2502.7	2502.7	2502.7	2502.7
2.5°	2464.4	2478.3	2474.8	2470.2	2470.2	2471.4	2470.2	2478.3	2486.4	2494.6
5°	2489.9	2503.9	2496.9	2491.1	2486.4	2485.3	2481.8	2480.6	2485.3	2495.7
7.5°	2539.8	2553.8	2543.3	2532.9	2523.6	2518.9	2514.3	2507.3	2503.9	2509.7
10°	2595.6	2609.5	2596.7	2578.1	2563.1	2557.3	2552.6	2545.6	2541.0	2544.5
12.5°	2651.3	2665.2	2647.8	2622.3	2602.5	2599.0	2593.2	2590.9	2589.8	2588.6
15°	2703.5	2715.1	2693.1	2662.9	2642.0	2636.2	2630.4	2633.9	2639.7	2646.6
17.5°	2744.1	2755.7	2723.2	2683.8	2664.0	2661.7	2658.2	2669.8	2686.1	2703.5
20°	2781.3	2792.9	2751.1	2697.7	2674.5	2674.5	2675.7	2700.0	2723.2	2748.8
22.5°	2833.5	2842.8	2791.7	2718.6	2684.9	2687.3	2696.5	2720.9	2749.9	2784.8
25°	2911.3	2918.3	2855.6	2758.1	2719.8	2726.7	2734.9	2746.5	2774.3	2814.9
27.5°	3036.7	3042.5	2960.1	2827.7	2769.7	2781.3	2792.9	2784.8	2797.5	2832.4
30°	3213.1	3216.6	3112.1	2936.8	2854.4	2860.2	2862.5	2828.9	2804.5	2832.4
32.5°	3422.0	3420.9	3296.7	3069.2	2950.8	2945.0	2925.2	2859.1	2802.2	2826.6
35°	3745.9	3733.1	3573.0	3254.9	3059.9	3023.9	2977.5	2892.7	2813.8	2820.8
37.5°	4282.2	4242.7	4021.0	3559.0	3222.4	3130.7	3062.2	2947.3	2839.3	2818.4
40°	4887.0	4837.1	4593.3	3975.8	3466.2	3318.7	3208.5	3025.1	2881.1	2828.9
42.5°	5604.4	5533.6	5271.2	4466.8	3774.9	3561.3	3395.4	3123.7	2942.6	2862.5
45°	6485.4	6391.4	6019.9	5020.5	4163.8	3879.4	3657.7	3273.5	3036.7	2927.5
47.5°	7375.7	7399.0	6870.8	5654.3	4630.4	4271.8	3986.2	3498.7	3173.6	3032.0
50°	8321.8	8338.1	7717.0	6356.6	5159.8	4715.2	4355.3	3750.6	3364.0	3180.6
52.5°	9060.1	9062.4	8485.5	7091.4	5711.2	5202.7	4753.5	4038.4	3584.6	3377.9
55°	9522.1	9516.3	9024.1	7786.7	6345.0	5714.6	5194.6	4365.8	3853.9	3610.1
57.5°	9857.5	9840.1	9395.5	8384.5	7020.5	6319.4	5693.7	4737.2	4171.9	3886.4
60°	9985.2	9974.8	9647.4	8901.0	7731.0	6988.0	6269.5	5152.8	4532.9	4212.6
62.5°	10034.0	10053.7	9894.7	9401.4	8491.3	7728.6	6902.1	5649.6	4939.2	4581.7
65°	10205.8	10241.8	10209.3	10056.0	9350.3	8595.8	7741.4	6240.5	5382.6	4977.5
67.5°	10545.9	10581.9	10595.8	10839.6	10399.6	9676.5	8788.4	6976.4	5901.5	5388.5
70°	10537.8	10527.3	10773.4	11462.9	11713.7	11172.7	10200.0	7881.9	6520.2	5729.7
72.5°	9591.7	9508.1	10089.7	11456.0	12807.1	12735.2	11923.8	9049.6	7054.2	5771.5
75°	7195.8	6972.9	8000.3	10324.2	12989.4	13622.0	13019.6	9774.0	6927.7	5099.4
77.5°	3077.3	2853.3	4064.0	7642.7	11625.5	12734.0	12014.3	8527.3	5530.1	3372.1
80°	805.6	804.4	1228.1	3465.0	7906.2	9403.7	8249.8	5506.9	3159.7	1204.9
82.5°	333.2	325.0	451.6	1347.7	3863.2	5277.0	4306.6	2456.3	1141.1	326.2
85°	124.2	123.0	219.4	465.5	1362.8	2176.5	1575.2	628.0	284.4	159.0
87.5°	34.8	33.7	47.6	161.4	332.0	503.8	269.3	103.3	80.1	62.7
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°
2502.7	0°	2502.7	2502.7	2502.7	2502.7	2502.7	2502.7	2502.7	2502.7	2502.7	2502.7
2507.3	2.5°	2510.8	2516.6	2527.1	2535.2	2545.6	2557.3	2573.5	2583.9	2594.4	2601.4
2513.1	5°	2521.3	2534.0	2560.7	2587.4	2618.8	2647.8	2681.5	2705.8	2725.6	2731.4
2534.0	7.5°	2544.5	2565.4	2610.6	2655.9	2705.8	2753.4	2802.2	2844.0	2877.6	2890.4
2571.2	10°	2585.1	2613.0	2676.8	2740.7	2806.8	2880.0	2942.6	3003.0	3050.6	3070.3
2615.3	12.5°	2636.2	2671.0	2754.6	2842.8	2934.5	3035.5	3116.8	3191.0	3250.3	3276.9
2676.8	15°	2702.4	2747.6	2854.4	2972.8	3107.5	3247.9	3351.2	3433.7	3499.8	3532.3
2740.7	17.5°	2774.3	2834.7	2969.3	3148.1	3340.8	3525.4	3646.1	3706.4	3774.9	3806.3
2799.9	20°	2844.0	2918.3	3111.0	3371.0	3627.5	3823.7	3921.2	3937.4	3942.1	3945.6
2855.6	22.5°	2915.9	3015.8	3288.6	3651.9	3927.0	4062.8	4076.7	4007.1	3909.6	3864.3
2910.1	25°	2994.9	3127.2	3520.7	3961.8	4184.7	4200.9	4094.2	3924.7	3740.1	3655.4
2954.2	27.5°	3071.5	3256.1	3799.3	4257.8	4370.4	4227.6	3997.8	3757.5	3534.6	3445.3
2985.6	30°	3148.1	3403.5	4106.9	4516.7	4455.2	4161.5	3845.7	3577.6	3353.6	3259.5
3013.4	32.5°	3225.9	3575.3	4461.0	4703.6	4440.1	4021.0	3656.5	3375.6	3178.3	3079.6
3037.8	35°	3314.1	3786.5	4796.4	4805.7	4339.1	3814.4	3407.0	3134.2	2962.4	2883.4
3066.8	37.5°	3429.0	4054.7	5092.4	4831.3	4162.6	3511.4	3097.0	2848.6	2707.0	2671.0
3109.8	40°	3571.8	4377.4	5318.8	4790.6	3901.5	3143.5	2758.1	2559.6	2479.5	2487.6
3167.8	42.5°	3757.5	4738.4	5477.8	4686.2	3538.1	2763.9	2460.9	2372.7	2411.0	2443.5
3254.9	45°	3999.0	5113.3	5576.5	4508.6	3127.2	2442.3	2285.6	2306.5	2335.5	2339.0
3395.4	47.5°	4307.7	5492.9	5641.5	4240.4	2708.2	2216.0	2174.2	2178.8	2173.0	2148.6
3605.5	50°	4693.1	5862.1	5699.5	3885.2	2351.8	2074.4	2018.6	2002.4	1922.3	1843.4
3885.2	52.5°	5131.9	6201.0	5723.9	3444.1	2074.4	1956.0	1865.4	1763.3	1613.5	1589.1
4236.9	55°	5619.5	6514.4	5661.2	2902.0	1841.0	1803.9	1666.9	1543.9	1527.6	1506.7
4700.1	57.5°	6202.2	6852.2	5533.6	2297.2	1601.9	1626.3	1492.8	1506.7	1477.7	1445.2
5295.6	60°	6839.5	7201.6	5309.5	1745.8	1354.7	1404.6	1447.5	1446.4	1438.2	1411.5
5923.6	62.5°	7412.9	7431.5	4868.4	1337.2	1137.6	1232.8	1350.0	1348.9	1341.9	1326.8
6579.4	65°	7754.2	7396.6	4132.5	1052.8	958.8	1091.2	1217.7	1227.0	1228.1	1227.0
7072.8	67.5°	7693.8	6989.2	3122.6	838.1	811.4	947.2	1086.5	1099.3	1108.6	1110.9
7135.5	70°	7011.3	6094.2	2036.1	668.6	680.2	820.7	962.3	975.1	983.2	992.5
6191.7	72.5°	5465.1	4480.7	1165.4	540.9	565.3	711.6	839.3	854.4	859.0	876.4
4308.9	75°	3330.3	2635.0	629.2	426.0	464.3	608.3	717.4	734.8	742.9	763.8
2116.1	77.5°	1583.3	1141.1	358.7	332.0	373.8	496.8	605.9	625.7	603.6	615.2
583.9	80°	535.1	423.7	226.4	253.1	285.6	387.7	485.2	504.9	458.5	456.2
193.9	82.5°	186.9	171.8	143.9	168.3	184.6	277.4	366.8	392.4	341.3	340.1
87.1	85°	73.1	69.6	80.1	91.7	110.3	170.6	241.4	254.2	210.1	169.5
25.5	87.5°	15.1	16.3	19.7	20.9	33.7	59.2	87.1	106.8	84.7	72.0
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

<u>180°</u>
2502.7
2596.7
2733.7
2891.6
3071.5
3276.9
3530.0
3805.1
3954.9
3877.1
3668.1
3455.7
3270.0
3092.4
2900.8
2696.5
2515.5
2473.7
2362.2
2167.2
1853.8
1597.3
1510.2
1439.4
1402.3
1321.0
1227.0
1113.2
997.1
883.4
766.1
605.9
451.6
323.9
167.2
66.2
0.0

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