

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: P939942

Luminaire Tested: **GALN-SB2D-740-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939942
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-SB2D-740-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21342 lumens
Efficiency: N/A
Efficacy: 144.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

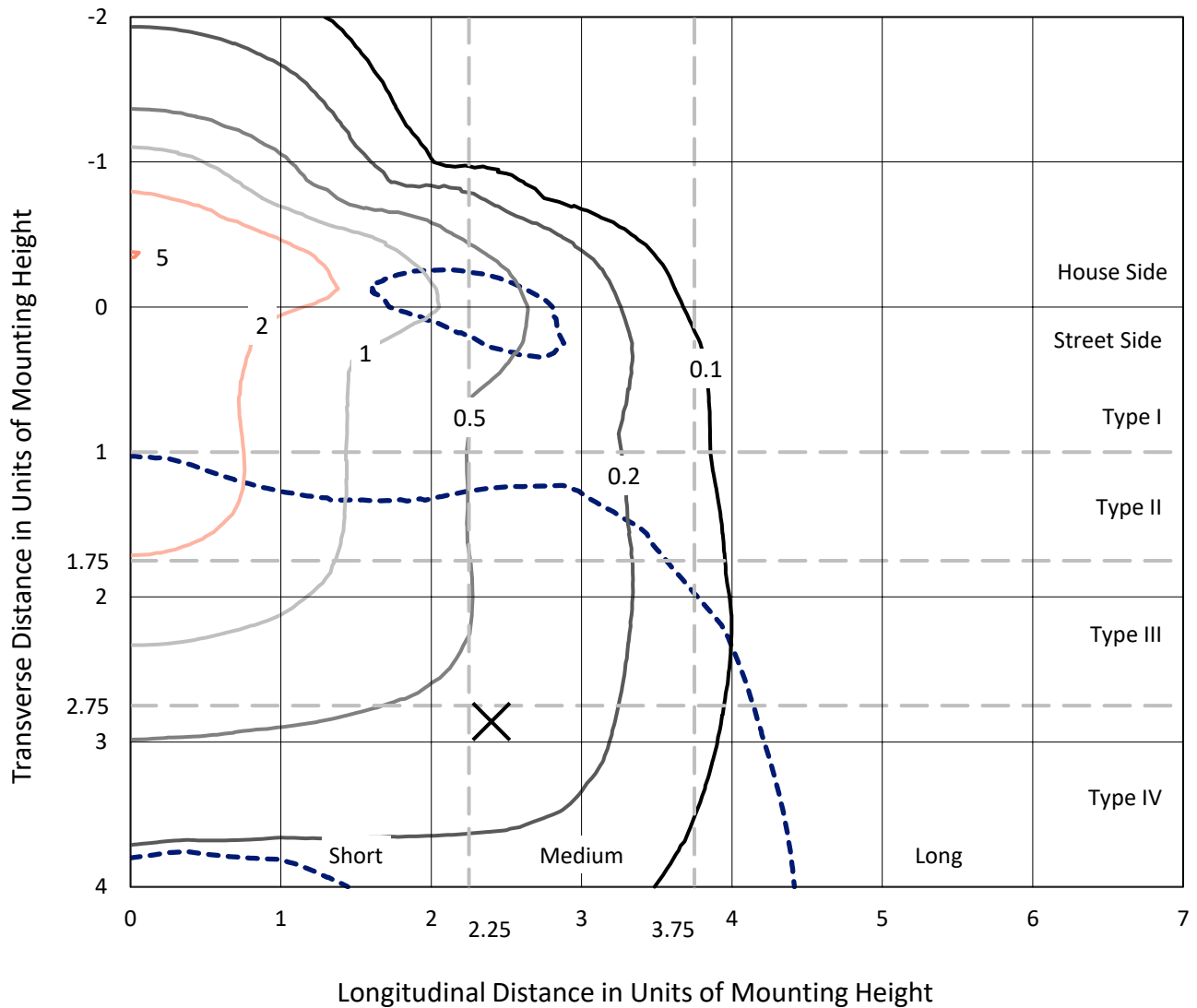
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P939942
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Iso-Footcandle Lines of Horizontal Illumination

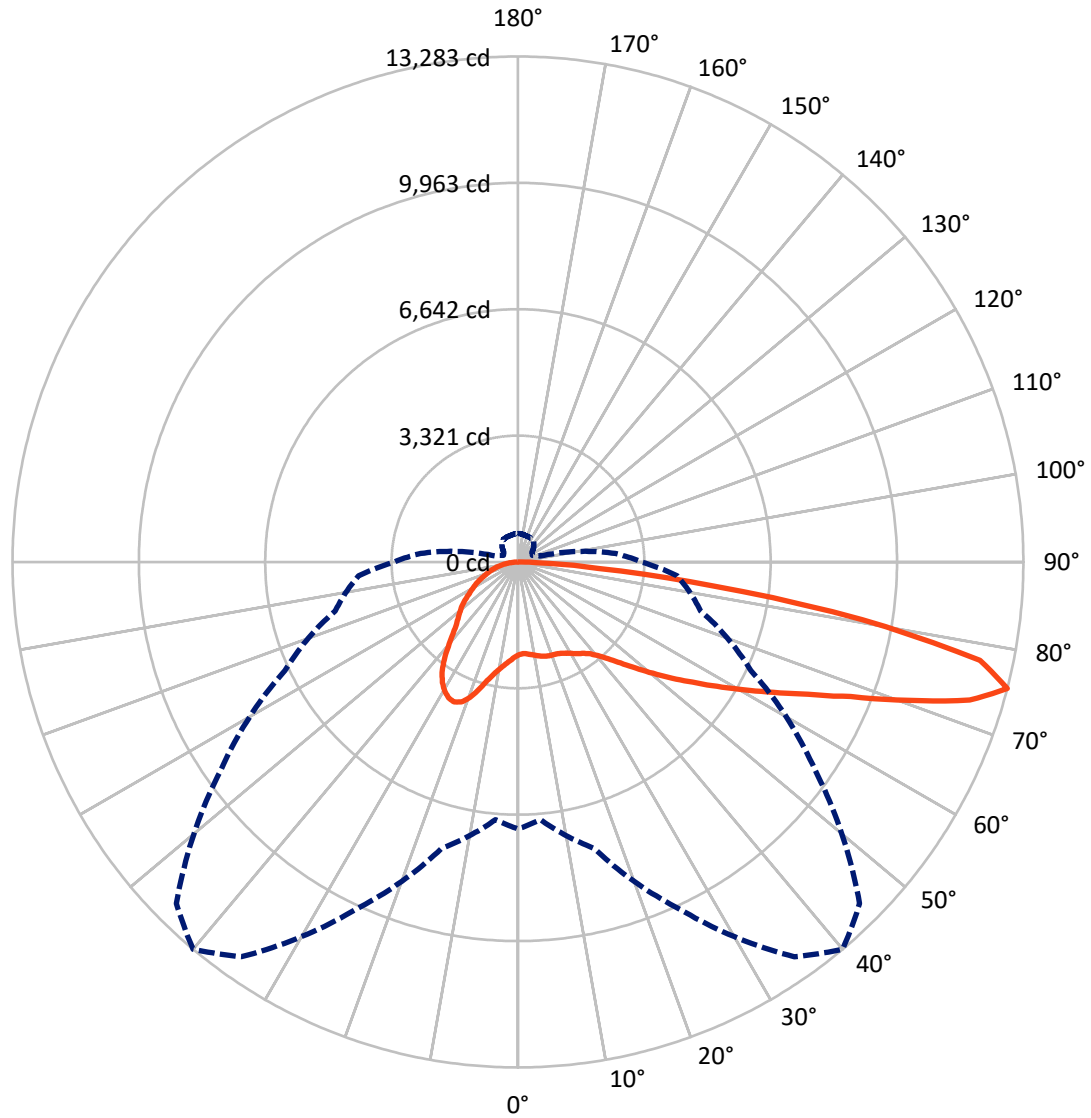
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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	6612.5	0.0	6612.5
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	14729.5	0.0	14729.5
	% Fixture	69.0	0.0	69.0
Total	Lumens	21342.0	0.0	21342.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.6	1.1
10°-20°	817.9	3.8
20°-30°	1493.4	7.0
30°-40°	2118.1	9.9
40°-50°	2860.0	13.4
50°-60°	3847.5	18.0
60°-70°	4883.4	22.9
70°-80°	4432.0	20.8
80°-90°	646.0	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°	21342.0	100.0
0°-180°	21342.0	100.0



REPORT NUMBER: P939942

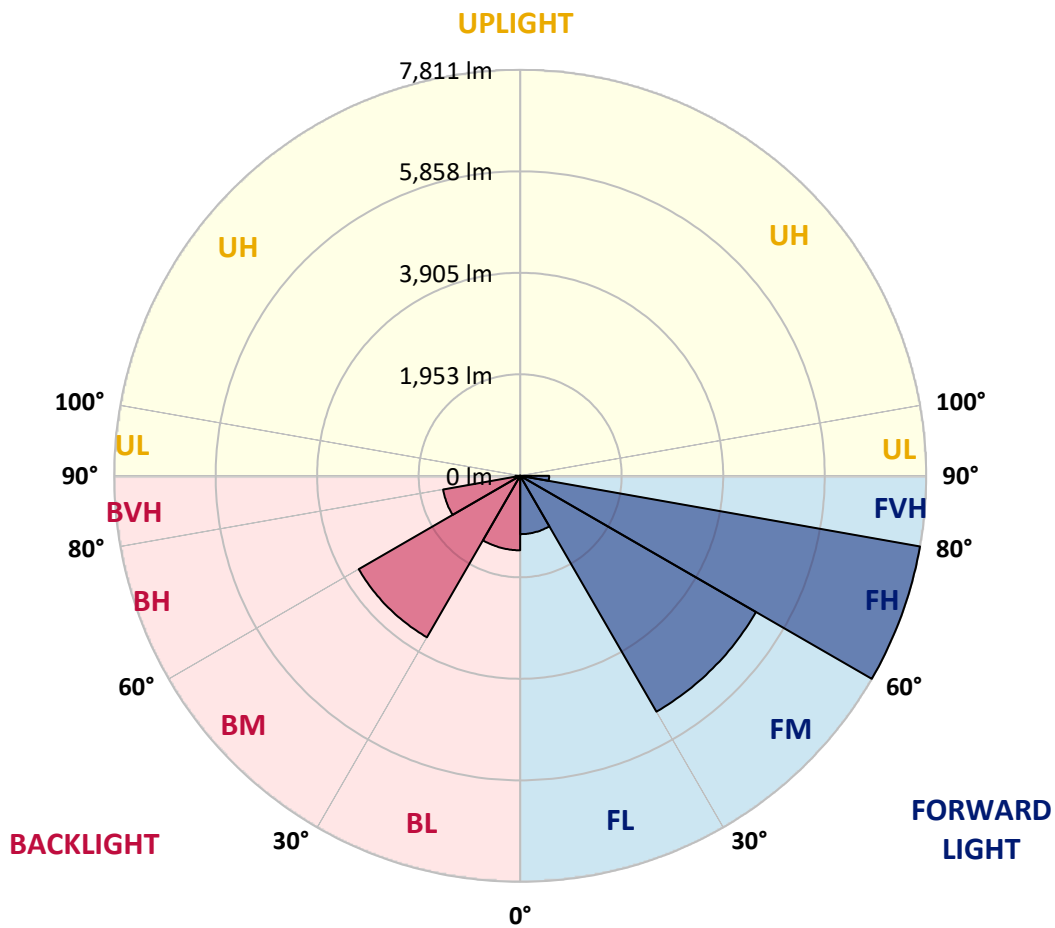
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1122.6	5.3			
FM (30°-60°)	5239.0	24.5			
FH (60°-80°)	7810.8	36.6			G4/12000
FVH (80°-90°)	557.1	2.6			G4/750
BL (0°-30°)	1432.3	6.7	B3/2500		
BM (30°-60°)	3586.7	16.8	B3/5000		
BH (60°-80°)	1504.5	7.0	B3/2500		G3/2500
BVH (80°-90°)	88.9	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



REPORT NUMBER: P939942
 CATALOG NUMBER: GALN-SB2D-740-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	2440.5	2440.5	2440.5	2440.5	2440.5	2440.5	2440.5	2440.5	2440.5	2440.5
2.5°	2403.1	2416.7	2413.3	2408.8	2408.8	2409.9	2408.8	2416.7	2424.6	2432.6
5°	2428.0	2441.6	2434.8	2429.2	2424.6	2423.5	2420.1	2419.0	2423.5	2433.7
7.5°	2476.7	2490.3	2480.1	2469.9	2460.9	2456.3	2451.8	2445.0	2441.6	2447.3
10°	2531.0	2544.6	2532.2	2514.1	2499.3	2493.7	2489.2	2482.4	2477.8	2481.2
12.5°	2585.4	2599.0	2582.0	2557.1	2537.8	2534.4	2528.8	2526.5	2525.4	2524.3
15°	2636.3	2647.6	2626.1	2596.7	2576.3	2570.7	2565.0	2568.4	2574.1	2580.8
17.5°	2675.9	2687.3	2655.6	2617.1	2597.8	2595.6	2592.2	2603.5	2619.3	2636.3
20°	2712.2	2723.5	2682.7	2630.7	2608.0	2608.0	2609.1	2632.9	2655.6	2680.5
22.5°	2763.1	2772.1	2722.3	2651.0	2618.2	2620.5	2629.5	2653.3	2681.6	2715.6
25°	2838.9	2845.7	2784.6	2689.5	2652.2	2659.0	2666.9	2678.2	2705.4	2745.0
27.5°	2961.2	2966.8	2886.5	2757.4	2700.8	2712.2	2723.5	2715.6	2728.0	2762.0
30°	3133.2	3136.6	3034.8	2863.8	2783.5	2789.1	2791.4	2758.6	2734.8	2762.0
32.5°	3337.0	3335.9	3214.7	2992.9	2877.4	2871.8	2852.5	2788.0	2732.5	2756.3
35°	3652.8	3640.4	3484.1	3174.0	2983.8	2948.7	2903.5	2820.8	2743.8	2750.6
37.5°	4175.8	4137.3	3921.1	3470.6	3142.3	3052.9	2986.1	2874.0	2768.8	2748.4
40°	4765.5	4716.8	4479.1	3876.9	3380.0	3236.2	3128.7	2949.9	2809.5	2758.6
42.5°	5465.1	5396.0	5140.2	4355.7	3681.1	3472.8	3311.0	3046.1	2869.5	2791.4
45°	6324.2	6232.5	5870.3	4895.7	4060.3	3783.0	3566.8	3192.1	2961.2	2854.8
47.5°	7192.4	7215.1	6700.0	5513.7	4515.4	4165.6	3887.1	3411.7	3094.8	2956.7
50°	8115.0	8130.8	7525.2	6198.6	5031.5	4598.0	4247.1	3657.3	3280.4	3101.5
52.5°	8834.9	8837.1	8274.6	6915.1	5569.2	5073.4	4635.3	3938.1	3495.5	3294.0
55°	9285.4	9279.7	8799.8	7593.1	6187.2	5572.6	5065.5	4257.3	3758.1	3520.4
57.5°	9612.5	9595.5	9162.0	8176.1	6846.0	6162.3	5552.2	4619.5	4068.2	3789.8
60°	9737.0	9726.9	9407.6	8679.8	7538.8	6814.3	6113.7	5024.7	4420.3	4107.8
62.5°	9784.6	9803.8	9648.7	9167.7	8280.2	7536.5	6730.6	5509.2	4816.5	4467.8
65°	9952.1	9987.2	9955.5	9806.1	9117.9	8382.1	7549.0	6085.4	5248.9	4853.8
67.5°	10283.8	10318.9	10332.4	10570.2	10141.1	9435.9	8570.0	6803.0	5754.8	5254.5
70°	10275.9	10265.7	10505.6	11178.0	11422.5	10895.0	9946.5	7685.9	6358.2	5587.3
72.5°	9353.3	9271.8	9838.9	11171.2	12488.8	12418.6	11627.4	8824.7	6878.9	5628.1
75°	7017.0	6799.6	7801.4	10067.6	12666.5	13283.4	12696.0	9531.0	6755.5	4972.7
77.5°	3000.8	2782.3	3963.0	7452.8	11336.5	12417.5	11715.7	8315.3	5392.6	3288.3
80°	785.6	784.4	1197.6	3378.9	7709.7	9169.9	8044.8	5370.0	3081.2	1175.0
82.5°	324.9	316.9	440.3	1314.2	3767.1	5145.8	4199.5	2395.2	1112.7	318.1
85°	121.1	120.0	213.9	453.9	1328.9	2122.4	1536.1	612.4	277.3	155.1
87.5°	34.0	32.8	46.4	157.3	323.7	491.3	262.6	100.7	78.1	61.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P939942
 CATALOG NUMBER: GALN-SB2D-740-U-SL4

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2440.5	0°	2440.5	2440.5	2440.5	2440.5	2440.5	2440.5	2440.5	2440.5	2440.5	2440.5
2445.0	2.5°	2448.4	2454.1	2464.3	2472.2	2482.4	2493.7	2509.5	2519.7	2529.9	2536.7
2450.7	5°	2458.6	2471.0	2497.1	2523.1	2553.7	2582.0	2614.8	2638.6	2657.8	2663.5
2471.0	7.5°	2481.2	2501.6	2545.8	2589.9	2638.6	2685.0	2732.5	2773.3	2806.1	2818.6
2507.3	10°	2520.9	2548.0	2610.3	2672.5	2737.1	2808.4	2869.5	2928.4	2974.8	2994.0
2550.3	12.5°	2570.7	2604.6	2686.1	2772.1	2861.6	2960.1	3039.3	3111.7	3169.5	3195.5
2610.3	15°	2635.2	2679.3	2783.5	2898.9	3030.2	3167.2	3267.9	3348.3	3412.8	3444.5
2672.5	17.5°	2705.4	2764.2	2895.5	3069.9	3257.8	3437.7	3555.5	3614.3	3681.1	3711.7
2730.3	20°	2773.3	2845.7	3033.6	3287.2	3537.3	3728.6	3823.7	3839.6	3844.1	3847.5
2784.6	22.5°	2843.5	2940.8	3206.8	3561.1	3829.4	3961.8	3975.4	3907.5	3812.4	3768.3
2837.8	25°	2920.4	3049.5	3433.2	3863.3	4080.7	4096.5	3992.4	3827.1	3647.1	3564.5
2880.8	27.5°	2995.1	3175.1	3704.9	4152.0	4261.8	4122.6	3898.4	3664.1	3446.8	3359.6
2911.4	30°	3069.9	3318.9	4004.8	4404.4	4344.4	4058.0	3750.2	3488.7	3270.2	3178.5
2938.5	32.5°	3145.7	3486.4	4350.1	4586.7	4329.7	3921.1	3565.6	3291.7	3099.3	3003.1
2962.3	35°	3231.7	3692.4	4677.2	4686.3	4231.2	3719.6	3322.3	3056.3	2888.7	2811.8
2990.6	37.5°	3343.8	3953.9	4965.9	4711.2	4059.2	3424.2	3020.0	2777.8	2639.7	2604.6
3032.5	40°	3483.0	4268.6	5186.6	4671.6	3804.5	3065.3	2689.5	2496.0	2417.8	2425.8
3089.1	42.5°	3664.1	4620.6	5341.7	4569.7	3450.2	2695.2	2399.7	2313.7	2351.1	2382.8
3174.0	45°	3899.6	4986.2	5437.9	4396.5	3049.5	2381.6	2228.8	2249.2	2277.5	2280.9
3311.0	47.5°	4200.7	5356.4	5501.3	4135.0	2640.8	2160.9	2120.1	2124.7	2119.0	2095.2
3515.8	50°	4576.5	5716.4	5557.9	3788.6	2293.3	2022.8	1968.5	1952.6	1874.5	1797.5
3788.6	52.5°	5004.4	6046.9	5581.6	3358.5	2022.8	1907.3	1819.0	1719.4	1573.4	1549.6
4131.6	55°	5479.8	6352.5	5520.5	2829.9	1795.3	1759.1	1625.5	1505.5	1489.6	1469.3
4583.3	57.5°	6048.0	6681.9	5396.0	2240.1	1562.1	1585.9	1455.7	1469.3	1441.0	1409.3
5164.0	60°	6669.5	7022.6	5177.5	1702.5	1321.0	1369.7	1411.5	1410.4	1402.5	1376.5
5776.3	62.5°	7228.6	7246.7	4747.4	1304.0	1109.3	1202.1	1316.5	1315.3	1308.5	1293.8
6415.9	65°	7561.4	7212.8	4029.7	1026.7	935.0	1064.0	1187.4	1196.5	1197.6	1196.5
6897.0	67.5°	7502.6	6815.5	3044.9	817.3	791.2	923.7	1059.5	1072.0	1081.0	1083.3
6958.1	70°	6837.0	5942.7	1985.4	652.0	663.3	800.3	938.4	950.8	958.8	967.8
6037.8	72.5°	5329.2	4369.3	1136.5	527.5	551.3	693.9	818.4	833.1	837.6	854.6
4201.8	75°	3247.6	2569.5	613.5	415.4	452.8	593.1	699.5	716.5	724.4	744.8
2063.5	77.5°	1544.0	1112.7	349.8	323.7	364.5	484.5	590.9	610.1	588.6	599.9
569.4	80°	521.8	413.2	220.7	246.8	278.5	378.1	473.2	492.4	447.1	444.9
189.0	82.5°	182.2	167.5	140.4	164.1	180.0	270.5	357.7	382.6	332.8	331.7
84.9	85°	71.3	67.9	78.1	89.4	107.5	166.4	235.4	247.9	204.9	165.3
24.9	87.5°	14.7	15.8	19.2	20.4	32.8	57.7	84.9	104.1	82.6	70.2
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>
2440.5
2532.2
2665.7
2819.7
2995.1
3195.5
3442.3
3710.5
3856.6
3780.7
3577.0
3369.8
3188.7
3015.5
2828.7
2629.5
2452.9
2412.2
2303.5
2113.4
1807.7
1557.6
1472.7
1403.6
1367.4
1288.2
1196.5
1085.5
972.3
861.4
747.1
590.9
440.3
315.8
163.0
64.5
0.0

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