

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: P940972

Luminaire Tested: **GALN-SB4B-750-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940972
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-750-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 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: 23668 lumens
Efficiency: N/A
Efficacy: 161.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

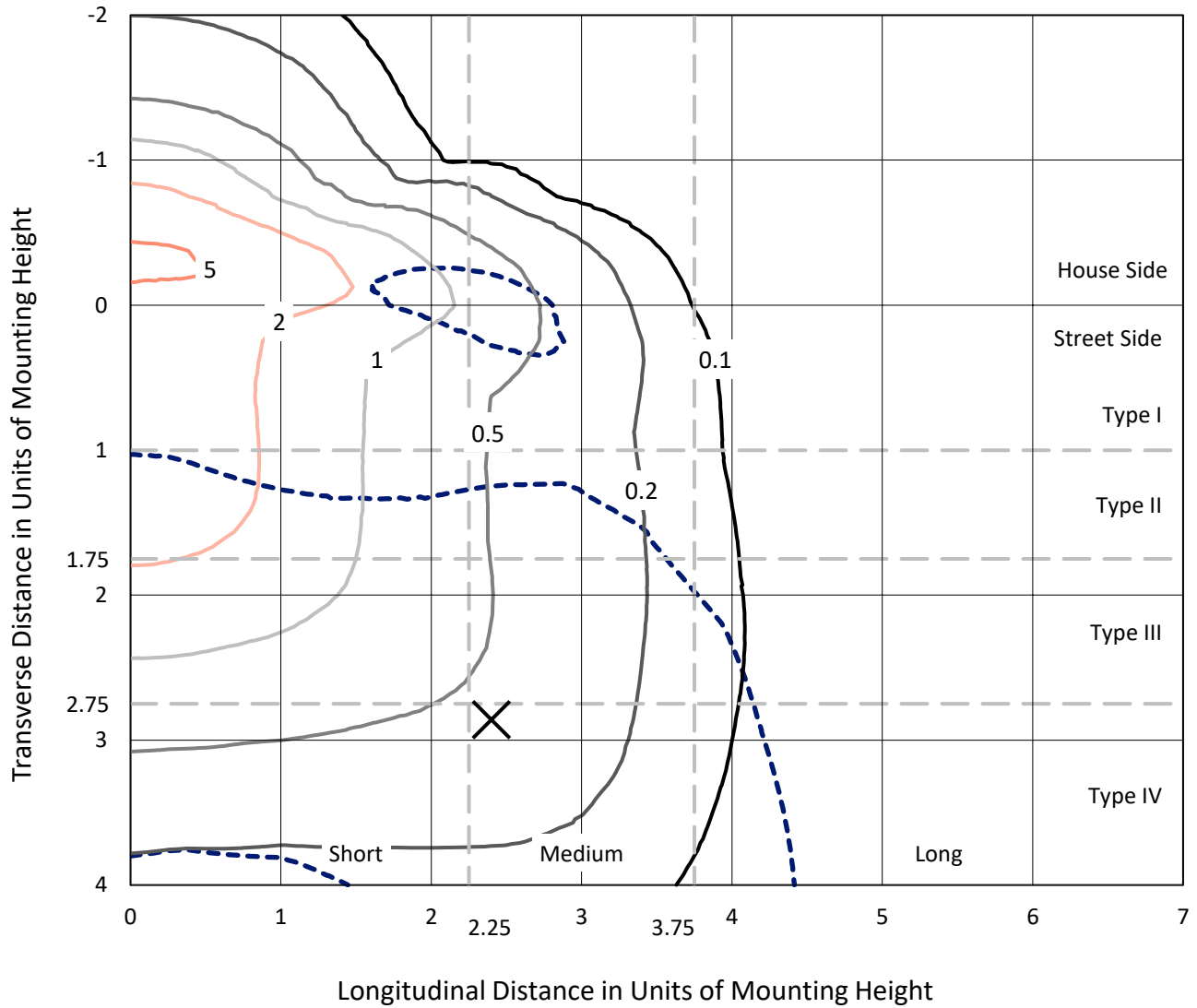
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

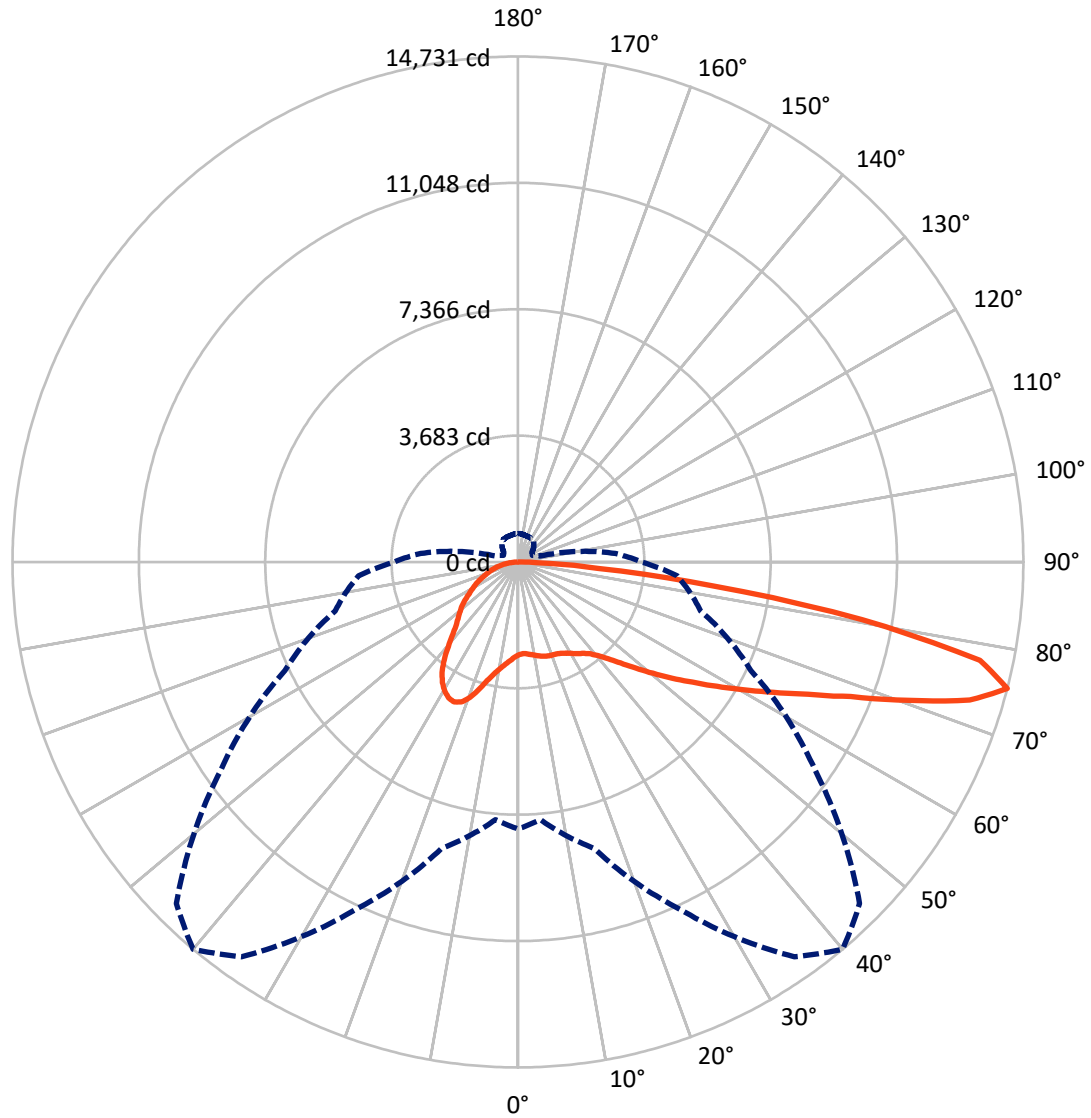
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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	7333.1	0.0	7333.1
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	16334.9	0.0	16334.9
	% Fixture	69.0	0.0	69.0
Total	Lumens	23668.0	0.0	23668.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.2	1.1
10°-20°	907.0	3.8
20°-30°	1656.2	7.0
30°-40°	2348.9	9.9
40°-50°	3171.8	13.4
50°-60°	4266.9	18.0
60°-70°	5415.6	22.9
70°-80°	4915.0	20.8
80°-90°	716.5	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°	23668.0	100.0
0°-180°	23668.0	100.0

Coefficient of Utilization



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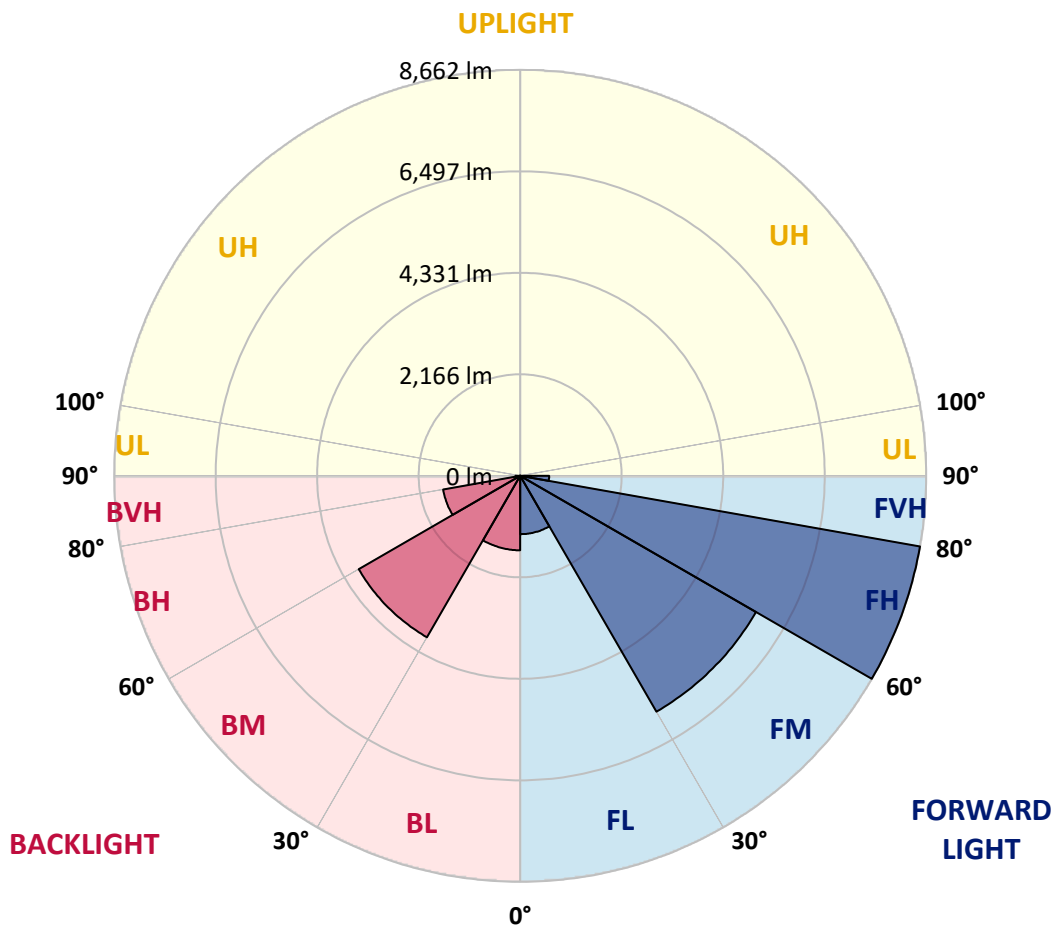
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1245.0	5.3			
FM (30°-60°)	5810.0	24.5			
FH (60°-80°)	8662.1	36.6			G4/12000
FVH (80°-90°)	617.8	2.6			G4/750
BL (0°-30°)	1588.4	6.7	B3/2500		
BM (30°-60°)	3977.6	16.8	B3/5000		
BH (60°-80°)	1668.5	7.0	B3/2500		G3/2500
BVH (80°-90°)	98.6	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°	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5
2.5°	2665.0	2680.1	2676.3	2671.3	2671.3	2672.6	2671.3	2680.1	2688.9	2697.7
5°	2692.7	2707.7	2700.2	2693.9	2688.9	2687.6	2683.9	2682.6	2687.6	2698.9
7.5°	2746.6	2761.7	2750.4	2739.1	2729.1	2724.0	2719.0	2711.5	2707.7	2714.0
10°	2806.9	2822.0	2808.1	2788.1	2771.7	2765.5	2760.4	2752.9	2747.9	2751.7
12.5°	2867.1	2882.2	2863.4	2835.8	2814.4	2810.7	2804.4	2801.9	2800.6	2799.4
15°	2923.6	2936.2	2912.3	2879.7	2857.1	2850.8	2844.6	2848.3	2854.6	2862.1
17.5°	2967.6	2980.1	2945.0	2902.3	2881.0	2878.4	2874.7	2887.2	2904.8	2923.6
20°	3007.7	3020.3	2975.1	2917.4	2892.3	2892.3	2893.5	2919.9	2945.0	2972.6
22.5°	3064.2	3074.3	3019.0	2940.0	2903.6	2906.1	2916.1	2942.5	2973.9	3011.5
25°	3148.3	3155.9	3088.1	2982.6	2941.2	2948.7	2957.5	2970.1	3000.2	3044.1
27.5°	3283.9	3290.2	3201.1	3058.0	2995.2	3007.7	3020.3	3011.5	3025.3	3063.0
30°	3474.7	3478.5	3365.5	3176.0	3086.8	3093.1	3095.6	3059.2	3032.9	3063.0
32.5°	3700.7	3699.4	3565.1	3319.1	3191.0	3184.7	3163.4	3091.9	3030.3	3056.7
35°	4050.9	4037.1	3863.9	3519.9	3309.0	3270.1	3219.9	3128.3	3042.9	3050.4
37.5°	4630.9	4588.2	4348.4	3848.8	3484.8	3385.6	3311.5	3187.3	3070.5	3047.9
40°	5284.9	5230.9	4967.3	4299.5	3748.4	3589.0	3469.7	3271.4	3115.7	3059.2
42.5°	6060.7	5984.1	5700.4	4830.5	4082.3	3851.3	3671.8	3378.1	3182.2	3095.6
45°	7013.5	6911.8	6510.1	5429.3	4502.8	4195.3	3955.5	3540.0	3283.9	3165.9
47.5°	7976.3	8001.4	7430.2	6114.7	5007.5	4619.6	4310.8	3783.5	3432.0	3278.9
50°	8999.4	9017.0	8345.4	6874.1	5579.9	5099.1	4710.0	4055.9	3637.9	3439.6
52.5°	9797.8	9800.3	9176.4	7668.7	6176.2	5626.3	5140.5	4367.3	3876.4	3653.0
55°	10297.4	10291.1	9758.8	8420.7	6861.6	6179.9	5617.6	4721.3	4167.7	3904.0
57.5°	10660.2	10641.3	10160.6	9067.2	7592.2	6834.0	6157.3	5123.0	4511.6	4202.8
60°	10798.3	10787.0	10433.0	9625.8	8360.4	7557.0	6780.0	5572.4	4902.0	4555.6
62.5°	10851.0	10872.3	10700.3	10166.8	9182.7	8357.9	7464.1	6109.6	5341.4	4954.7
65°	11036.8	11075.7	11040.5	10874.8	10111.6	9295.6	8371.7	6748.6	5820.9	5382.8
67.5°	11404.6	11443.5	11458.6	11722.2	11246.4	10464.3	9504.0	7544.5	6382.0	5827.2
70°	11395.8	11384.5	11650.6	12396.3	12667.4	12082.4	11030.5	8523.6	7051.1	6196.3
72.5°	10372.7	10282.3	10911.2	12388.7	13849.9	13772.1	12894.6	9786.5	7628.6	6241.4
75°	7781.7	7540.7	8651.7	11164.8	14047.0	14731.2	14079.7	10569.8	7491.7	5514.6
77.5°	3327.9	3085.6	4394.9	8265.0	12572.0	13770.8	12992.5	9221.6	5980.3	3646.7
80°	871.2	869.9	1328.1	3747.1	8550.0	10169.3	8921.6	5955.2	3417.0	1303.0
82.5°	360.3	351.5	488.3	1457.4	4177.7	5706.7	4657.2	2656.3	1234.0	352.7
85°	134.3	133.1	237.3	503.4	1473.7	2353.7	1703.5	679.1	307.6	172.0
87.5°	37.7	36.4	51.5	174.5	359.0	544.8	291.2	111.7	86.6	67.8
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°
2706.5	0°	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5
2711.5	2.5°	2715.3	2721.5	2732.8	2741.6	2752.9	2765.5	2783.0	2794.3	2805.6	2813.2
2717.8	5°	2726.6	2740.4	2769.2	2798.1	2832.0	2863.4	2899.8	2926.1	2947.5	2953.8
2740.4	7.5°	2751.7	2774.3	2823.2	2872.2	2926.1	2977.6	3030.3	3075.5	3111.9	3125.7
2780.5	10°	2795.6	2825.7	2894.8	2963.8	3035.4	3114.4	3182.2	3247.5	3299.0	3320.3
2828.2	12.5°	2850.8	2888.5	2978.9	3074.3	3173.4	3282.7	3370.5	3450.9	3514.9	3543.8
2894.8	15°	2922.4	2971.3	3086.8	3214.9	3360.5	3512.4	3624.1	3713.2	3784.8	3819.9
2963.8	17.5°	3000.2	3065.5	3211.1	3404.4	3612.8	3812.4	3943.0	4008.2	4082.3	4116.2
3027.8	20°	3075.5	3155.9	3364.3	3645.4	3922.9	4135.0	4240.5	4258.0	4263.1	4266.8
3088.1	22.5°	3153.4	3261.3	3556.3	3949.2	4246.7	4393.6	4408.7	4333.4	4227.9	4179.0
3147.1	25°	3238.7	3381.8	3807.4	4284.4	4525.4	4543.0	4427.5	4244.2	4044.6	3953.0
3194.8	27.5°	3321.6	3521.2	4108.7	4604.5	4726.3	4571.9	4323.3	4063.5	3822.4	3725.8
3228.7	30°	3404.4	3680.6	4441.3	4884.4	4817.9	4500.3	4158.9	3868.9	3626.6	3524.9
3258.8	32.5°	3488.5	3866.4	4824.2	5086.6	4801.6	4348.4	3954.3	3650.5	3437.1	3330.4
3285.2	35°	3583.9	4094.8	5187.0	5197.0	4692.4	4125.0	3684.4	3389.4	3203.6	3118.2
3316.6	37.5°	3708.2	4384.8	5507.1	5224.6	4501.6	3797.3	3349.2	3080.6	2927.4	2888.5
3363.0	40°	3862.6	4733.8	5751.9	5180.7	4219.1	3399.4	2982.6	2768.0	2681.4	2690.1
3425.8	42.5°	4063.5	5124.2	5923.8	5067.7	3826.2	2988.9	2661.3	2565.9	2607.3	2642.4
3519.9	45°	4324.6	5529.7	6030.6	4875.7	3381.8	2641.2	2471.7	2494.3	2525.7	2529.5
3671.8	47.5°	4658.5	5940.2	6100.8	4585.7	2928.7	2396.4	2351.2	2356.2	2350.0	2323.6
3899.0	50°	5075.3	6339.4	6163.6	4201.6	2543.3	2243.3	2183.0	2165.4	2078.8	1993.4
4201.6	52.5°	5549.8	6705.9	6190.0	3724.5	2243.3	2115.2	2017.3	1906.8	1744.9	1718.5
4581.9	55°	6077.0	7044.8	6122.2	3138.3	1990.9	1950.8	1802.6	1669.6	1652.0	1629.4
5082.8	57.5°	6707.2	7410.1	5984.1	2484.3	1732.3	1758.7	1614.3	1629.4	1598.0	1562.9
5726.8	60°	7396.3	7788.0	5741.8	1888.0	1465.0	1518.9	1565.4	1564.1	1555.3	1526.5
6405.9	62.5°	8016.5	8036.6	5264.8	1446.1	1230.2	1333.1	1459.9	1458.7	1451.1	1434.8
7115.1	65°	8385.5	7998.9	4468.9	1138.6	1036.9	1180.0	1316.8	1326.9	1328.1	1326.9
7648.7	67.5°	8320.3	7558.3	3376.8	906.3	877.5	1024.3	1175.0	1188.8	1198.8	1201.3
7716.4	70°	7582.1	6590.4	2201.8	723.1	735.6	887.5	1040.7	1054.5	1063.3	1073.3
6695.9	72.5°	5910.0	4845.5	1260.3	585.0	611.3	769.5	907.6	923.9	928.9	947.8
4659.7	75°	3601.5	2849.6	680.4	460.7	502.1	657.8	775.8	794.6	803.4	826.0
2288.4	77.5°	1712.3	1234.0	387.9	359.0	404.2	537.3	655.3	676.6	652.8	665.3
631.4	80°	578.7	458.2	244.8	273.7	308.8	419.3	524.7	546.1	495.9	493.3
209.6	82.5°	202.1	185.8	155.7	182.0	199.6	300.0	396.7	424.3	369.1	367.8
94.1	85°	79.1	75.3	86.6	99.2	119.3	184.5	261.1	274.9	227.2	183.3
27.6	87.5°	16.3	17.6	21.3	22.6	36.4	64.0	94.1	115.5	91.6	77.8
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>
2706.5
2808.1
2956.3
3127.0
3321.6
3543.8
3817.4
4114.9
4276.9
4192.8
3966.8
3737.1
3536.2
3344.2
3137.0
2916.1
2720.3
2675.1
2554.6
2343.7
2004.7
1727.3
1633.2
1556.6
1516.4
1428.6
1326.9
1203.9
1078.3
955.3
828.5
655.3
488.3
350.2
180.8
71.6
0.0

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