

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: P943082

Luminaire Tested: **GALN-SB7B-927-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943082
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-SB7B-927-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 2700K, 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: 24163 lumens
Efficiency: N/A
Efficacy: 94.1 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

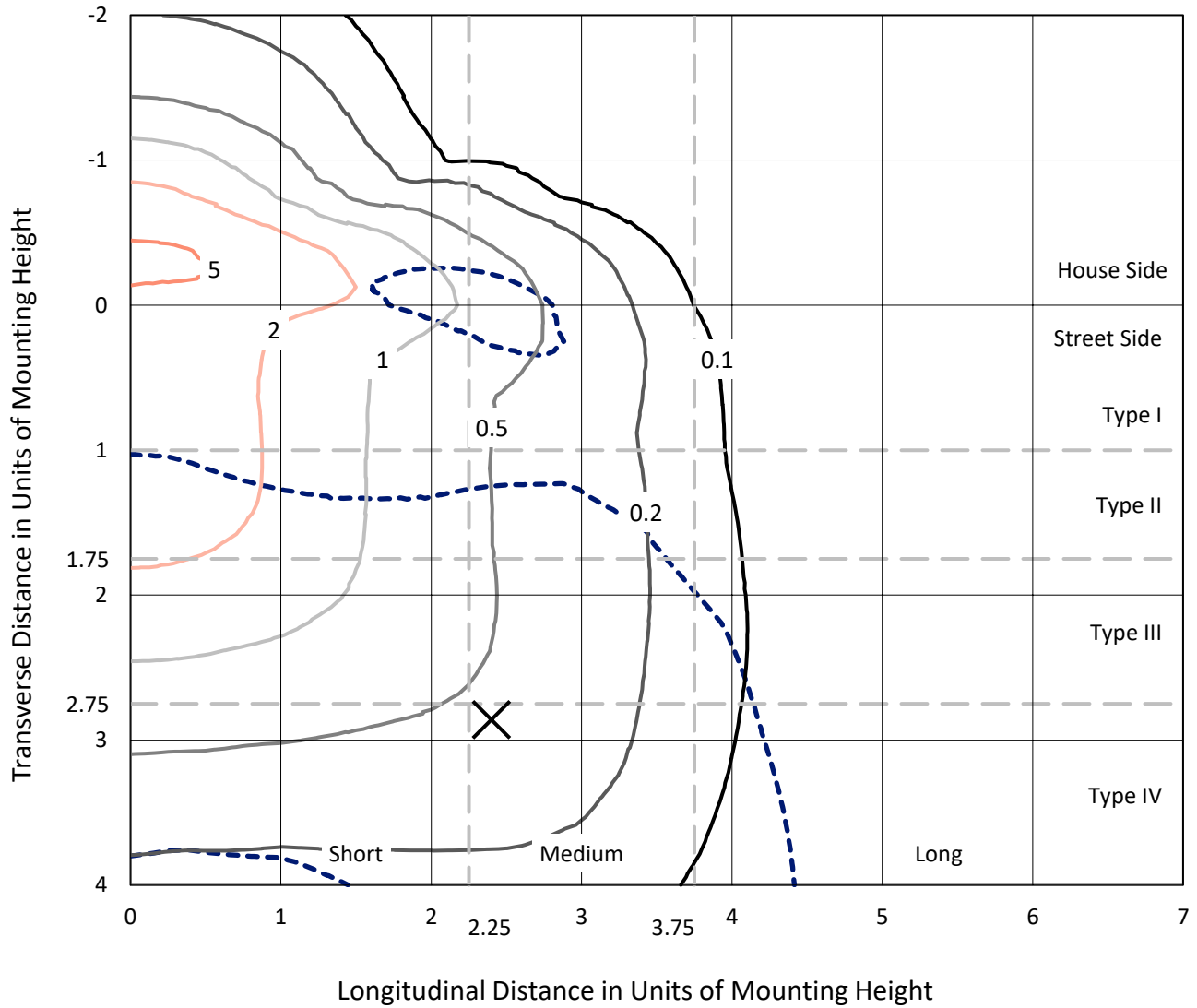
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

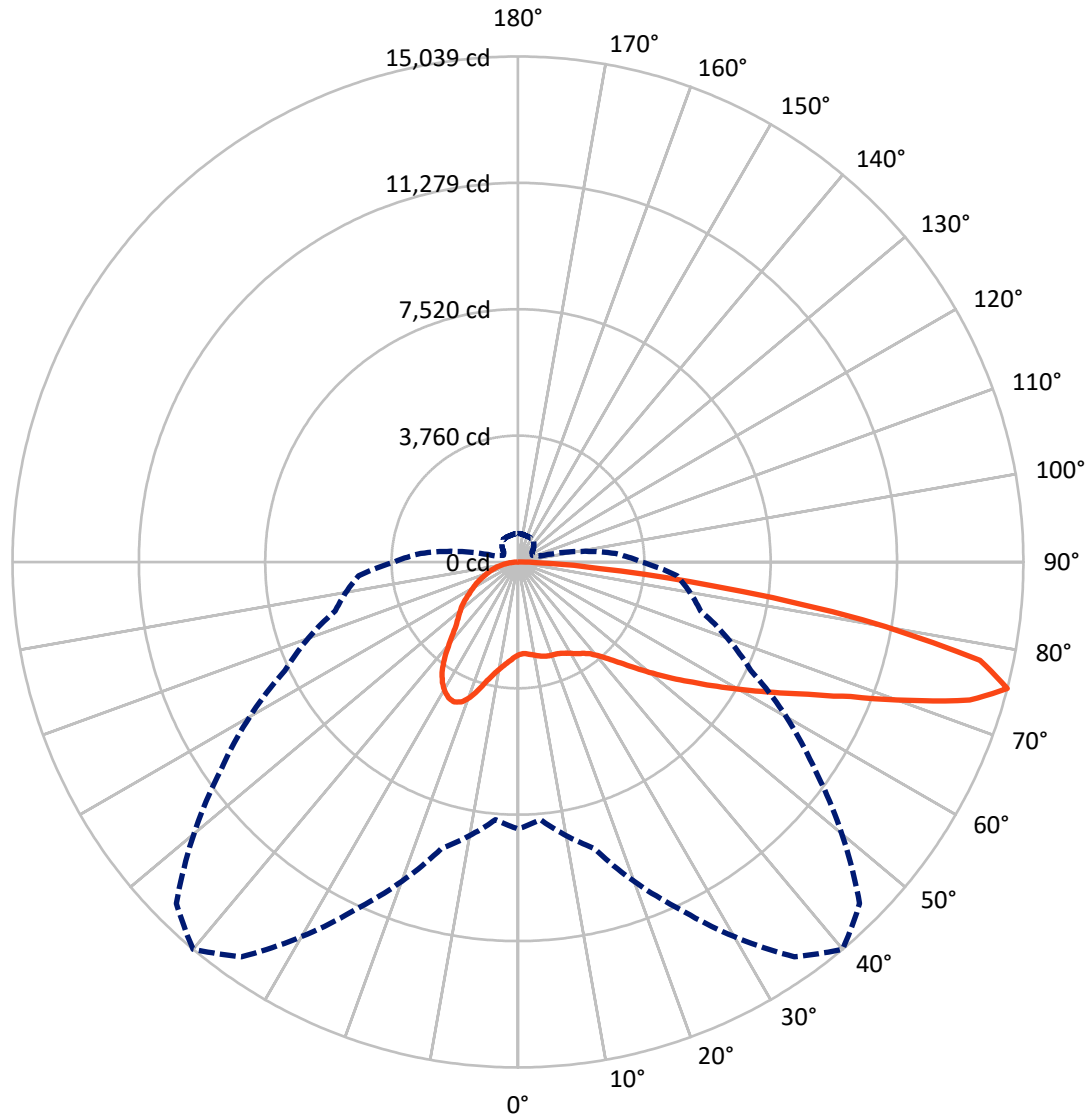
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	7486.5	0.0	7486.5
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	16676.5	0.0	16676.5
	% Fixture	69.0	0.0	69.0
Total	Lumens	24163.0	0.0	24163.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.8	1.1
10°-20°	926.0	3.8
20°-30°	1690.8	7.0
30°-40°	2398.0	9.9
40°-50°	3238.1	13.4
50°-60°	4356.1	18.0
60°-70°	5528.9	22.9
70°-80°	5017.8	20.8
80°-90°	731.4	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°	24163.0	100.0
0°-180°	24163.0	100.0

Coefficient of Utilization



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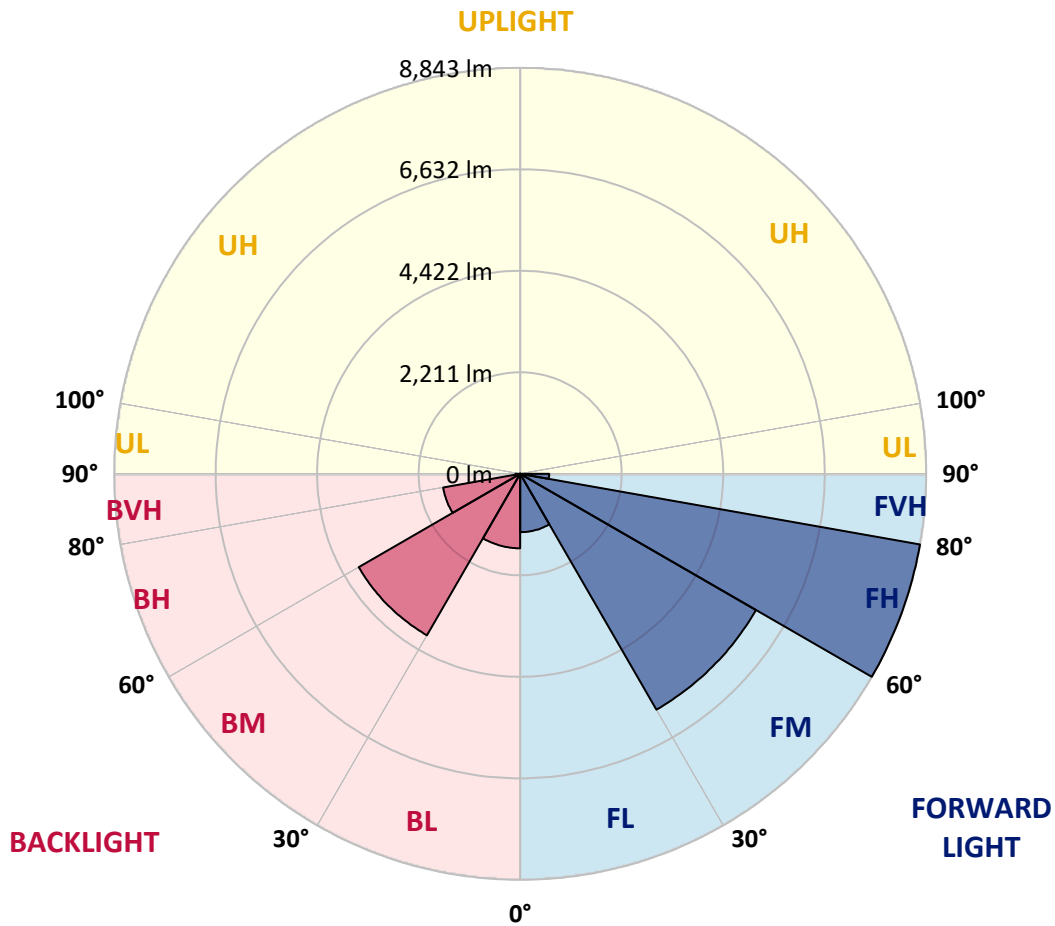
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1271.0	5.3			
FM (30°-60°)	5931.5	24.5			
FH (60°-80°)	8843.3	36.6			G4/12000
FVH (80°-90°)	630.7	2.6			G4/750
BL (0°-30°)	1621.6	6.7	B3/2500		
BM (30°-60°)	4060.8	16.8	B3/5000		
BH (60°-80°)	1703.4	7.0	B3/2500		G3/2500
BVH (80°-90°)	100.7	0.4			G2/225
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°	2763.1	2763.1	2763.1	2763.1	2763.1	2763.1	2763.1	2763.1	2763.1	2763.1
2.5°	2720.8	2736.2	2732.3	2727.2	2727.2	2728.5	2727.2	2736.2	2745.1	2754.1
5°	2749.0	2764.4	2756.7	2750.3	2745.1	2743.8	2740.0	2738.7	2743.8	2755.4
7.5°	2804.1	2819.5	2807.9	2796.4	2786.1	2781.0	2775.9	2768.2	2764.4	2770.8
10°	2865.6	2881.0	2866.9	2846.4	2829.7	2823.3	2818.2	2810.5	2805.4	2809.2
12.5°	2927.1	2942.5	2923.3	2895.1	2873.3	2869.4	2863.0	2860.5	2859.2	2857.9
15°	2984.8	2997.6	2973.2	2939.9	2916.9	2910.5	2904.0	2907.9	2914.3	2922.0
17.5°	3029.6	3042.5	3006.6	2963.0	2941.2	2938.6	2934.8	2947.6	2965.6	2984.8
20°	3070.6	3083.5	3037.3	2978.4	2952.7	2952.7	2954.0	2980.9	3006.6	3034.8
22.5°	3128.3	3138.6	3082.2	3001.4	2964.3	2966.8	2977.1	3004.0	3036.0	3074.5
25°	3214.2	3221.9	3152.7	3045.0	3002.7	3010.4	3019.4	3032.2	3063.0	3107.8
27.5°	3352.6	3359.0	3268.0	3121.9	3057.8	3070.6	3083.5	3074.5	3088.6	3127.0
30°	3547.4	3551.2	3435.9	3242.4	3151.4	3157.8	3160.4	3123.2	3096.3	3127.0
32.5°	3778.1	3776.8	3639.7	3388.5	3257.8	3251.4	3229.6	3156.5	3093.7	3120.6
35°	4135.6	4121.5	3944.7	3593.5	3378.2	3338.5	3287.2	3193.7	3106.5	3114.2
37.5°	4727.7	4684.1	4439.4	3929.3	3557.6	3456.4	3380.8	3253.9	3134.7	3111.7
40°	5395.4	5340.3	5071.2	4389.4	3826.8	3664.0	3542.3	3339.8	3180.9	3123.2
42.5°	6187.4	6109.3	5819.6	4931.5	4167.7	3931.9	3748.6	3448.7	3248.8	3160.4
45°	7160.1	7056.3	6646.2	5542.8	4597.0	4283.0	4038.2	3614.0	3352.6	3232.1
47.5°	8143.1	8168.7	7585.6	6242.5	5112.2	4716.2	4400.9	3862.7	3503.8	3347.5
50°	9187.6	9205.5	8519.9	7017.9	5696.6	5205.7	4808.5	4140.8	3714.0	3511.5
52.5°	10002.7	10005.2	9368.3	7829.1	6305.3	5744.0	5248.0	4458.6	3957.5	3729.4
55°	10512.7	10506.3	9962.9	8596.8	7005.1	6309.2	5735.0	4820.0	4254.8	3985.7
57.5°	10883.1	10863.9	10373.1	9256.8	7751.0	6976.9	6286.1	5230.1	4606.0	4290.7
60°	11024.1	11012.6	10651.2	9827.1	8535.3	7715.1	6921.8	5688.9	5004.5	4650.8
62.5°	11077.9	11099.7	10924.1	10379.5	9374.7	8532.7	7620.2	6237.4	5453.1	5058.4
65°	11267.6	11307.3	11271.4	11102.3	10323.1	9490.0	8546.8	6889.7	5942.7	5495.4
67.5°	11643.1	11682.8	11698.2	11967.3	11481.6	10683.2	9702.8	7702.3	6515.5	5949.1
70°	11634.1	11622.6	11894.3	12655.5	12932.4	12335.1	11261.2	8701.9	7198.6	6325.8
72.5°	10589.6	10497.4	11139.4	12647.8	14139.6	14060.1	13164.3	9991.1	7788.1	6372.0
75°	7944.5	7698.4	8832.6	11398.3	14340.8	15039.3	14374.1	10790.8	7648.4	5629.9
77.5°	3397.4	3150.1	4486.8	8437.9	12835.0	14058.9	13264.3	9414.4	6105.4	3723.0
80°	889.4	888.1	1355.9	3825.5	8728.8	10382.0	9108.1	6079.8	3488.4	1330.3
82.5°	367.8	358.8	498.5	1487.9	4265.1	5826.0	4754.6	2711.8	1259.8	360.1
85°	137.1	135.8	242.2	513.9	1504.6	2402.9	1739.1	693.3	314.0	175.6
87.5°	38.4	37.2	52.5	178.1	366.5	556.2	297.3	114.1	88.4	69.2
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°
2763.1	0°	2763.1	2763.1	2763.1	2763.1	2763.1	2763.1	2763.1	2763.1	2763.1	2763.1
2768.2	2.5°	2772.0	2778.5	2790.0	2799.0	2810.5	2823.3	2841.2	2852.8	2864.3	2872.0
2774.6	5°	2783.6	2797.7	2827.1	2856.6	2891.2	2923.3	2960.4	2987.3	3009.1	3015.5
2797.7	7.5°	2809.2	2832.3	2882.3	2932.2	2987.3	3039.9	3093.7	3139.9	3177.0	3191.1
2838.7	10°	2854.1	2884.8	2955.3	3025.8	3098.8	3179.6	3248.8	3315.4	3368.0	3389.8
2887.4	12.5°	2910.5	2948.9	3041.2	3138.6	3239.8	3351.3	3441.0	3523.0	3588.4	3617.9
2955.3	15°	2983.5	3033.5	3151.4	3282.1	3430.8	3585.8	3699.9	3790.9	3863.9	3899.8
3025.8	17.5°	3063.0	3129.6	3278.3	3475.6	3688.4	3892.1	4025.4	4092.1	4167.7	4202.3
3091.2	20°	3139.9	3221.9	3434.6	3721.7	4004.9	4221.5	4329.2	4347.1	4352.2	4356.1
3152.7	22.5°	3219.3	3329.5	3630.7	4031.8	4335.6	4485.5	4500.9	4424.0	4316.3	4266.4
3212.9	25°	3306.5	3452.6	3887.0	4374.0	4620.1	4638.0	4520.1	4333.0	4129.2	4035.7
3261.6	27.5°	3391.0	3594.8	4194.6	4700.8	4825.1	4667.5	4413.7	4148.5	3902.4	3803.7
3296.2	30°	3475.6	3757.6	4534.2	4986.6	4918.7	4594.4	4245.9	3949.8	3702.5	3598.7
3327.0	32.5°	3561.5	3947.2	4925.1	5192.9	4902.0	4439.4	4037.0	3726.8	3508.9	3400.0
3353.9	35°	3658.9	4180.5	5295.5	5305.7	4790.5	4211.2	3761.4	3460.2	3270.6	3183.4
3385.9	37.5°	3785.8	4476.5	5622.3	5333.9	4595.7	3876.8	3419.2	3145.0	2988.6	2948.9
3433.3	40°	3943.4	4832.8	5872.2	5289.1	4307.4	3470.5	3045.0	2825.9	2737.4	2746.4
3497.4	42.5°	4148.5	5231.4	6047.7	5173.7	3906.2	3051.4	2716.9	2619.5	2661.8	2697.7
3593.5	45°	4415.0	5645.3	6156.7	4977.6	3452.6	2696.4	2523.4	2546.5	2578.5	2582.4
3748.6	47.5°	4755.9	6064.4	6228.4	4681.6	2989.9	2446.5	2400.4	2405.5	2399.1	2372.2
3980.6	50°	5181.4	6471.9	6292.5	4289.4	2596.5	2290.2	2228.7	2210.7	2122.3	2035.1
4289.4	52.5°	5665.8	6846.2	6319.4	3802.4	2290.2	2159.5	2059.5	1946.7	1781.4	1754.5
4677.7	55°	6204.1	7192.2	6250.2	3203.9	2032.6	1991.6	1840.3	1704.5	1686.5	1663.5
5189.1	57.5°	6847.4	7565.1	6109.3	2536.2	1768.6	1795.5	1648.1	1663.5	1631.4	1595.6
5846.5	60°	7551.0	7950.9	5861.9	1927.5	1495.6	1550.7	1598.1	1596.8	1587.9	1558.4
6539.9	62.5°	8184.1	8204.6	5374.9	1476.4	1255.9	1361.0	1490.5	1489.2	1481.5	1464.8
7264.0	65°	8560.9	8166.2	4562.4	1162.4	1058.6	1204.7	1344.4	1354.6	1355.9	1354.6
7808.6	67.5°	8494.3	7716.4	3447.4	925.3	895.8	1045.8	1199.6	1213.6	1223.9	1226.5
7877.8	70°	7740.7	6728.3	2247.9	738.2	751.0	906.1	1062.4	1076.5	1085.5	1095.7
6835.9	72.5°	6033.6	4946.9	1286.7	597.2	624.1	785.6	926.6	943.2	948.4	967.6
4757.2	75°	3676.8	2909.2	694.6	470.3	512.6	671.5	792.0	811.2	820.2	843.3
2336.3	77.5°	1748.1	1259.8	396.0	366.5	412.7	548.5	669.0	690.8	666.4	679.2
644.6	80°	590.8	467.8	249.9	279.4	315.3	428.0	535.7	557.5	506.2	503.7
214.0	82.5°	206.3	189.7	158.9	185.8	203.8	306.3	405.0	433.2	376.8	375.5
96.1	85°	80.7	76.9	88.4	101.2	121.7	188.4	266.6	280.7	232.0	187.1
28.2	87.5°	16.7	17.9	21.8	23.1	37.2	65.4	96.1	117.9	93.6	79.5
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>
2763.1
2866.9
3018.1
3192.4
3391.0
3617.9
3897.3
4201.0
4366.3
4280.5
4049.8
3815.2
3610.2
3414.1
3202.7
2977.1
2777.2
2731.0
2608.0
2392.7
2046.7
1763.4
1667.3
1589.2
1548.1
1458.4
1354.6
1229.0
1100.9
975.3
<i>845.8</i>
669.0
498.5
357.6
184.5
73.0
0.0

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