

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: P942212

Luminaire Tested: **GALN-SB6A-840-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942212  
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-SB6A-840-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

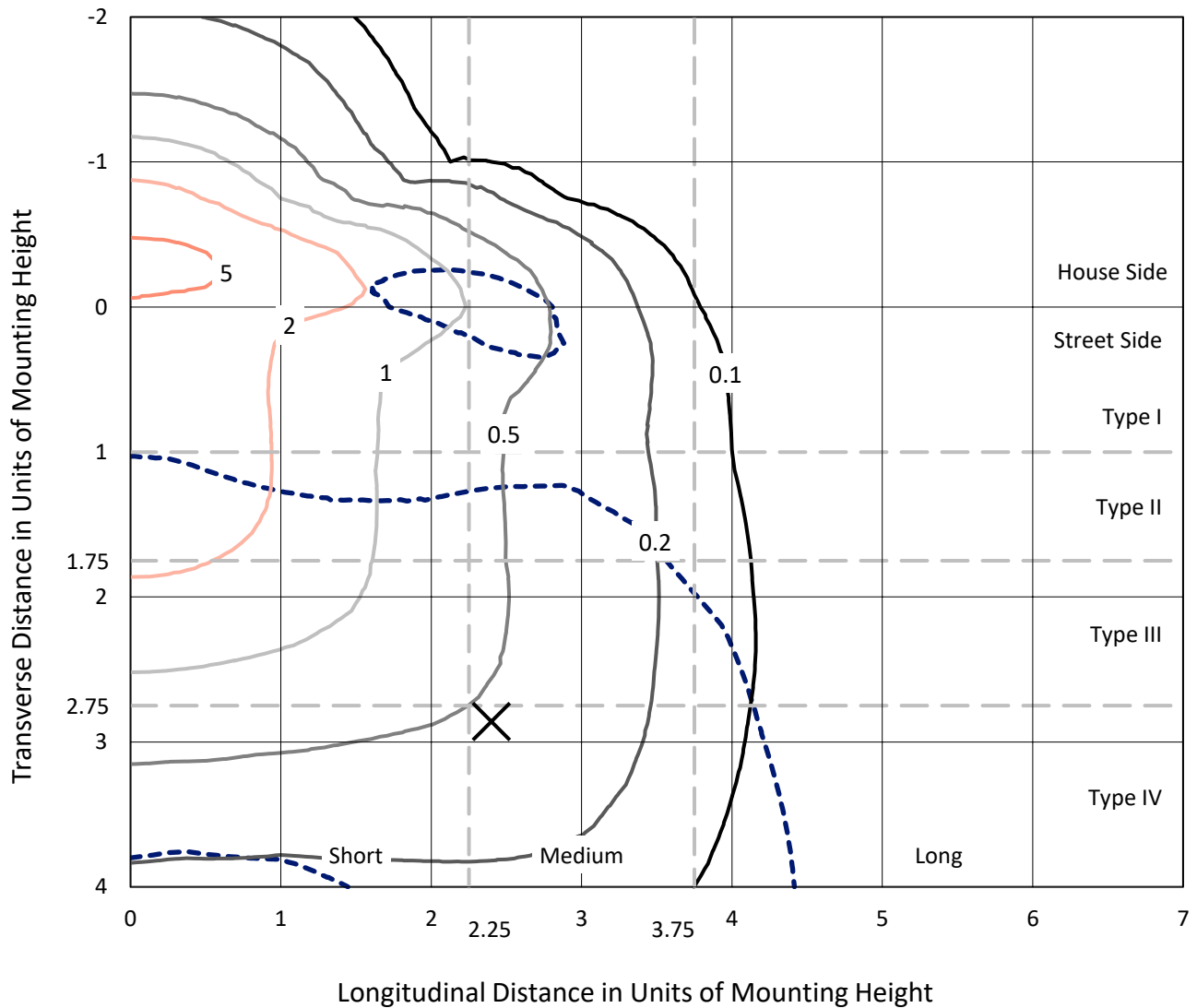
Lumens per Lamp: N/A  
Luminaire Lumens: 25792 lumens  
Efficiency: N/A  
Efficacy: 150.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 170.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

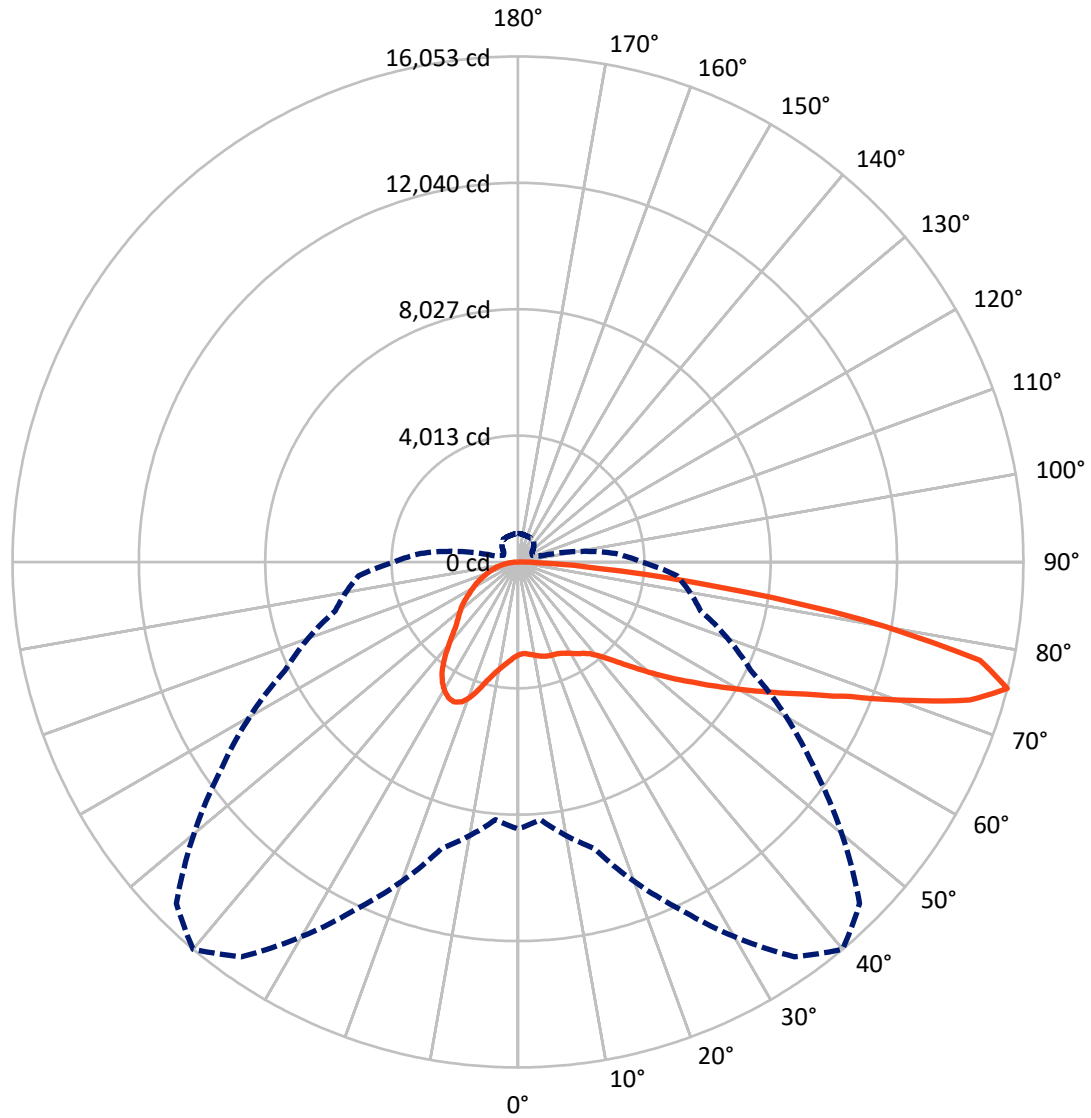
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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
<b>House Side</b>	Lumens	7991.2	0.0	7991.2
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	17800.8	0.0	17800.8
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	25792.0	0.0	25792.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	294.4	1.1
10°-20°	988.4	3.8
20°-30°	1804.8	7.0
30°-40°	2559.7	9.9
40°-50°	3456.4	13.4
50°-60°	4649.8	18.0
60°-70°	5901.6	22.9
70°-80°	5356.1	20.8
80°-90°	780.8	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°	25792.0	100.0
0°-180°	25792.0	100.0

**Coefficient of Utilization**



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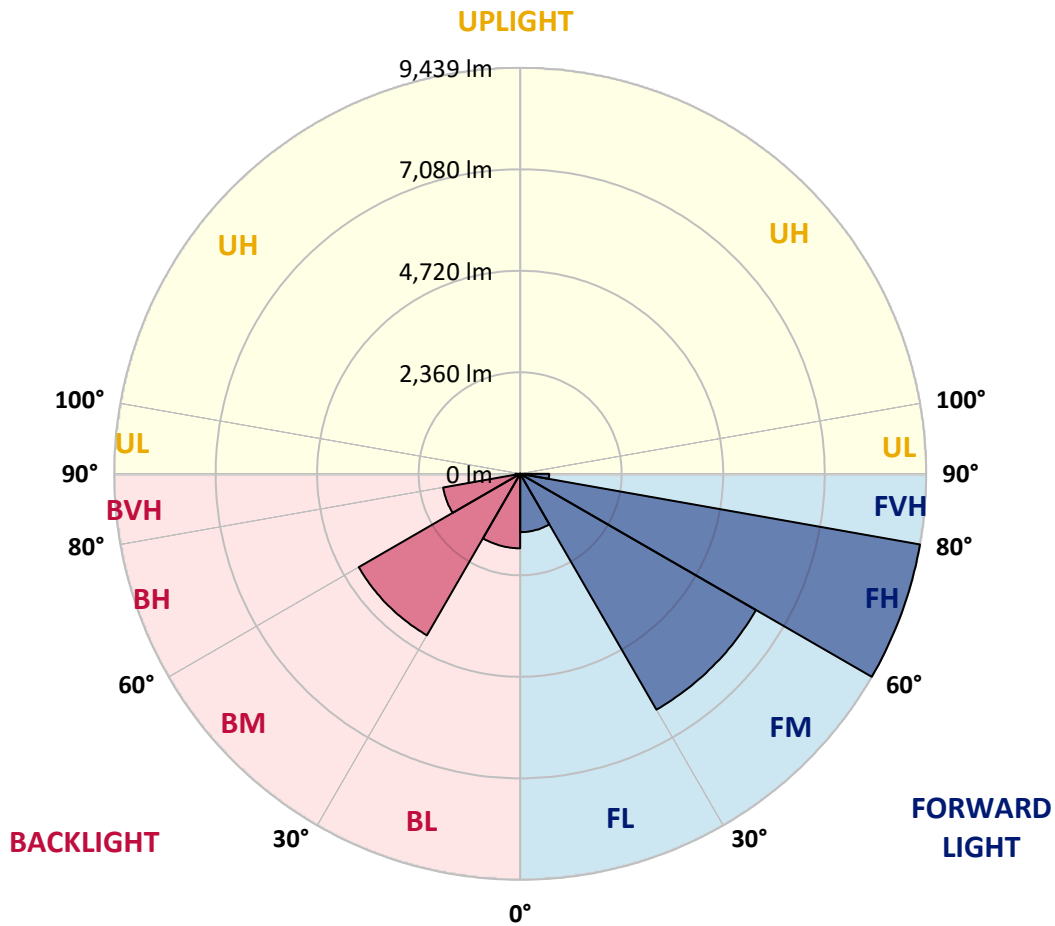
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1356.7	5.3			
FM (30°-60°)	6331.4	24.5			
FH (60°-80°)	9439.5	36.6			G4/12000
FVH (80°-90°)	673.3	2.6			G4/750
BL (0°-30°)	1731.0	6.7	B3/2500		
BM (30°-60°)	4334.5	16.8	B3/5000		
BH (60°-80°)	1818.2	7.0	B3/2500		G3/2500
BVH (80°-90°)	107.5	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°	2949.3	2949.3	2949.3	2949.3	2949.3	2949.3	2949.3	2949.3	2949.3	2949.3
2.5°	2904.2	2920.6	2916.5	2911.0	2911.0	2912.4	2911.0	2920.6	2930.2	2939.8
5°	2934.3	2950.7	2942.5	2935.7	2930.2	2928.8	2924.7	2923.4	2928.8	2941.1
7.5°	2993.1	3009.5	2997.2	2984.9	2974.0	2968.5	2963.0	2954.8	2950.7	2957.6
10°	3058.8	3075.2	3060.2	3038.3	3020.5	3013.6	3008.2	3000.0	2994.5	2998.6
12.5°	3124.5	3140.9	3120.3	3090.3	3067.0	3062.9	3056.1	3053.3	3051.9	3050.6
15°	3186.0	3199.7	3173.7	3138.1	3113.5	3106.7	3099.8	3103.9	3110.8	3119.0
17.5°	3233.9	3247.6	3209.3	3162.8	3139.5	3136.8	3132.7	3146.3	3165.5	3186.0
20°	3277.7	3291.3	3242.1	3179.2	3151.8	3151.8	3153.2	3181.9	3209.3	3239.4
22.5°	3339.2	3350.2	3290.0	3203.8	3164.1	3166.9	3177.8	3206.5	3240.7	3281.8
25°	3430.9	3439.1	3365.2	3250.3	3205.2	3213.4	3222.9	3236.6	3269.5	3317.3
27.5°	3578.6	3585.5	3488.3	3332.4	3264.0	3277.7	3291.3	3281.8	3296.8	3337.9
30°	3786.5	3790.7	3667.5	3461.0	3363.8	3370.7	3373.4	3333.7	3305.0	3337.9
32.5°	4032.8	4031.4	3885.0	3616.9	3477.4	3470.5	3447.3	3369.3	3302.3	3331.0
35°	4414.4	4399.4	4210.6	3835.8	3606.0	3563.6	3508.9	3409.0	3316.0	3324.2
37.5°	5046.5	4999.9	4738.7	4194.2	3797.5	3689.4	3608.7	3473.3	3346.1	3321.4
40°	5759.2	5700.3	5413.1	4685.3	4084.8	3911.0	3781.1	3564.9	3395.3	3333.7
42.5°	6604.6	6521.1	6212.0	5264.0	4448.6	4196.9	4001.3	3681.2	3467.8	3373.4
45°	7642.9	7532.1	7094.3	5916.5	4906.9	4571.8	4310.5	3857.7	3578.6	3450.0
47.5°	8692.1	8719.5	8097.0	6663.4	5456.8	5034.1	4697.6	4123.1	3740.0	3573.1
50°	9807.0	9826.1	9094.3	7491.0	6080.6	5556.7	5132.6	4419.9	3964.4	3748.2
52.5°	10677.0	10679.8	9999.9	8356.9	6730.4	6131.3	5601.8	4759.2	4224.3	3980.8
55°	11221.5	11214.6	10634.6	9176.4	7477.3	6734.5	6121.7	5144.9	4541.7	4254.4
57.5°	11616.8	11596.3	11072.4	9880.9	8273.5	7447.2	6709.9	5582.7	4916.5	4580.0
60°	11767.3	11755.0	11369.2	10489.6	9110.7	8235.2	7388.4	6072.4	5341.9	4964.4
62.5°	11824.8	11848.0	11660.6	11079.2	10006.7	9108.0	8134.0	6657.9	5820.7	5399.4
65°	12027.2	12069.6	12031.3	11850.7	11019.0	10129.8	9123.0	7354.2	6343.3	5865.9
67.5°	12428.0	12470.4	12486.9	12774.1	12255.7	11403.4	10356.9	8221.5	6954.8	6350.1
70°	12418.5	12406.1	12696.2	13508.7	13804.2	13166.7	12020.4	9288.5	7683.9	6752.3
72.5°	11303.6	11205.1	11890.4	13500.5	15092.8	15008.0	14051.8	10664.7	8313.2	6801.6
75°	8480.1	8217.4	9428.1	12166.8	15307.6	16053.2	15343.2	11518.3	8164.1	6009.5
77.5°	3626.5	3362.5	4789.3	9006.7	13700.2	15006.7	14158.5	10049.1	6517.0	3974.0
80°	949.4	948.0	1447.3	4083.4	9317.3	11081.9	9722.2	6489.7	3723.6	1420.0
82.5°	392.6	383.0	532.1	1588.2	4552.6	6218.8	5075.2	2894.6	1344.7	384.4
85°	146.4	145.0	258.5	548.6	1606.0	2564.9	1856.3	740.1	335.2	187.4
87.5°	41.0	39.7	56.1	190.1	391.2	593.7	317.4	121.7	94.4	73.9
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°
2949.3	0°	2949.3	2949.3	2949.3	2949.3	2949.3	2949.3	2949.3	2949.3	2949.3	2949.3
2954.8	2.5°	2958.9	2965.8	2978.1	2987.7	3000.0	3013.6	3032.8	3045.1	3057.4	3065.6
2961.7	5°	2971.2	2986.3	3017.7	3049.2	3086.1	3120.3	3160.0	3188.7	3212.0	3218.8
2986.3	7.5°	2998.6	3023.2	3076.6	3129.9	3188.7	3244.8	3302.3	3351.5	3391.2	3406.3
3030.1	10°	3046.5	3079.3	3154.5	3229.8	3307.8	3393.9	3467.8	3538.9	3595.0	3618.3
3082.0	12.5°	3106.7	3147.7	3246.2	3350.2	3458.2	3577.2	3673.0	3760.6	3830.3	3861.8
3154.5	15°	3184.6	3238.0	3363.8	3503.4	3662.1	3827.6	3949.3	4046.5	4124.4	4162.7
3229.8	17.5°	3269.5	3340.6	3499.3	3709.9	3937.0	4154.5	4296.8	4367.9	4448.6	4485.6
3299.6	20°	3351.5	3439.1	3666.2	3972.6	4274.9	4506.1	4621.0	4640.2	4645.6	4649.7
3365.2	22.5°	3436.3	3554.0	3875.5	4303.6	4627.9	4787.9	4804.3	4722.2	4607.3	4554.0
3429.5	25°	3529.4	3685.3	4149.1	4668.9	4931.5	4950.7	4824.8	4625.1	4407.6	4307.7
3481.5	27.5°	3619.7	3837.2	4477.4	5017.7	5150.4	4982.2	4711.3	4428.1	4165.5	4060.1
3518.4	30°	3709.9	4010.9	4839.9	5322.8	5250.3	4904.2	4532.1	4216.1	3952.1	3841.3
3551.3	32.5°	3801.6	4213.4	5257.1	5543.0	5232.5	4738.7	4309.1	3978.1	3745.5	3629.2
3580.0	35°	3905.6	4462.3	5652.5	5663.4	5113.5	4495.2	4015.0	3693.5	3491.1	3398.0
3614.2	37.5°	4041.0	4778.3	6001.3	5693.5	4905.6	4138.1	3649.8	3357.0	3190.1	3147.7
3664.8	40°	4209.3	5158.6	6268.1	5645.6	4597.8	3704.5	3250.3	3016.4	2922.0	2931.6
3733.2	42.5°	4428.1	5584.1	6455.5	5522.5	4169.6	3257.1	2900.1	2796.1	2841.3	2879.6
3835.8	45°	4712.7	6025.9	6571.7	5313.2	3685.3	2878.2	2693.5	2718.2	2752.4	2756.5
4001.3	47.5°	5076.5	6473.2	6648.3	4997.2	3191.5	2611.5	2562.2	2567.7	2560.8	2532.1
4248.9	50°	5530.7	6908.3	6716.7	4578.6	2771.5	2444.6	2378.9	2359.8	2265.4	2172.3
4578.6	52.5°	6047.8	7307.7	6745.5	4058.8	2444.6	2305.0	2198.3	2078.0	1901.5	1872.8
4993.1	55°	6622.4	7677.1	6671.6	3419.9	2169.6	2125.8	1964.4	1819.4	1800.3	1775.6
5538.9	57.5°	7309.1	8075.1	6521.1	2707.2	1887.8	1916.5	1759.2	1775.6	1741.4	1703.1
6240.7	60°	8060.1	8486.9	6257.1	2057.4	1596.4	1655.2	1705.9	1704.5	1694.9	1663.5
6980.8	62.5°	8735.9	8757.8	5737.3	1575.9	1340.6	1452.8	1591.0	1589.6	1581.4	1563.6
7753.7	65°	9138.1	8716.7	4870.0	1240.8	1129.9	1285.9	1435.0	1445.9	1447.3	1445.9
8335.1	67.5°	9066.9	8236.6	3679.8	987.7	956.2	1116.3	1280.4	1295.5	1306.4	1309.2
8408.9	70°	8262.6	7181.9	2399.4	788.0	801.6	967.2	1134.0	1149.1	1158.7	1169.6
7296.8	72.5°	6440.4	5280.4	1373.4	637.5	666.2	838.6	989.0	1006.8	1012.3	1032.8
5077.9	75°	3924.7	3105.3	741.4	502.0	547.2	716.8	845.4	865.9	875.5	900.1
2493.8	77.5°	1865.9	1344.7	422.7	391.2	440.5	585.5	714.1	737.3	711.3	725.0
688.1	80°	630.6	499.3	266.8	298.2	336.5	456.9	571.8	595.1	540.3	537.6
228.5	82.5°	220.2	202.5	169.6	198.4	217.5	326.9	432.3	462.4	402.2	400.8
102.6	85°	86.2	82.1	94.4	108.1	130.0	201.1	284.5	299.6	247.6	199.7
30.1	87.5°	17.8	19.2	23.3	24.6	39.7	69.8	102.6	125.9	99.9	84.8
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>
2949.3
3060.2
3221.6
3407.6
3619.7
3861.8
4160.0
4484.2
4660.7
4569.0
4322.8
4072.5
3853.6
3644.3
3418.6
3177.8
2964.4
2915.2
2783.8
2554.0
2184.7
1882.3
1779.7
1696.3
1652.5
1556.8
1445.9
1311.9
1175.1
1041.0
902.9
714.1
532.1
381.7
197.0
78.0
0.0

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