

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: P941162

Luminaire Tested: **GALN-SB4C-827-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941162
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-SB4C-827-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25872 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

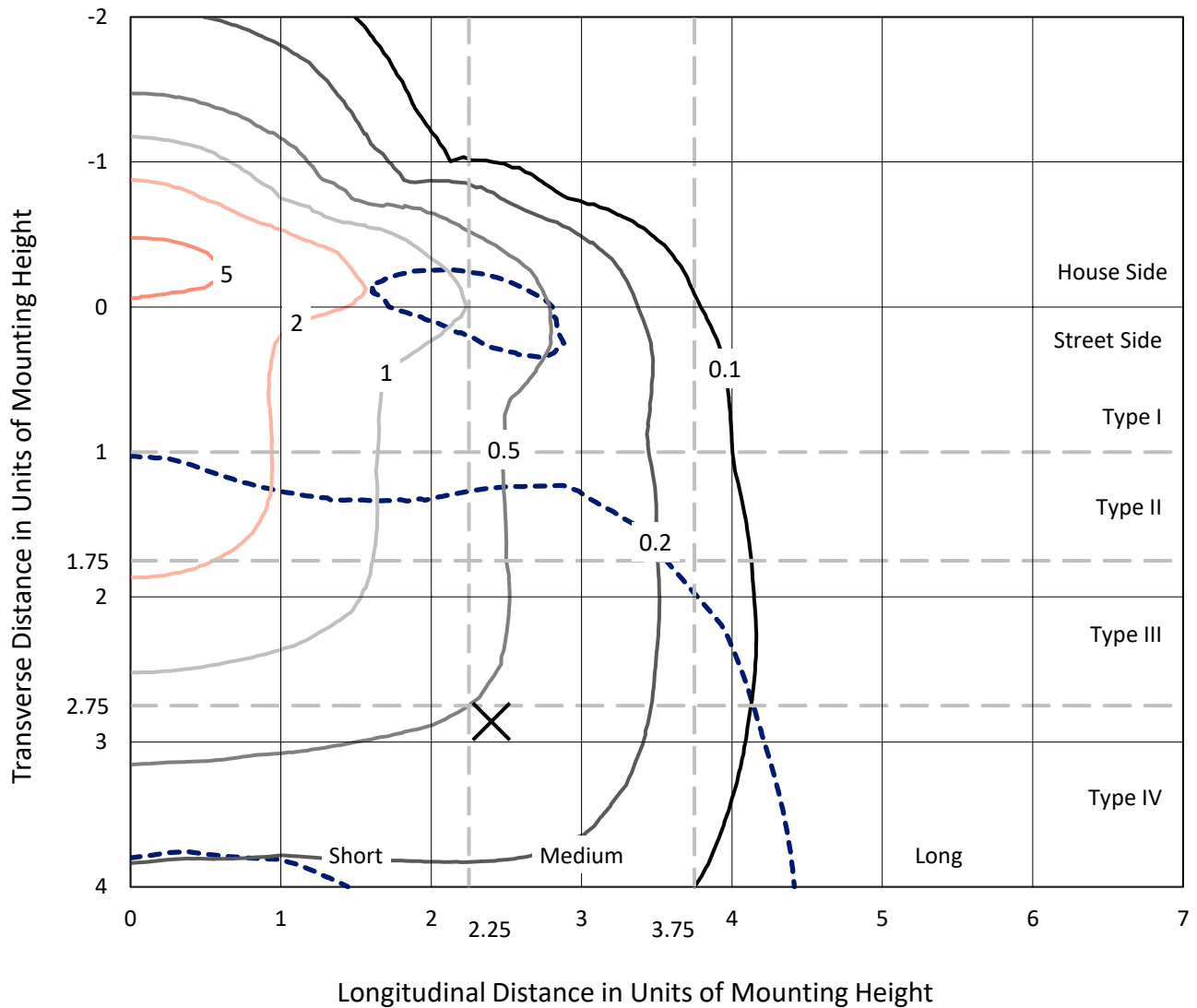
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

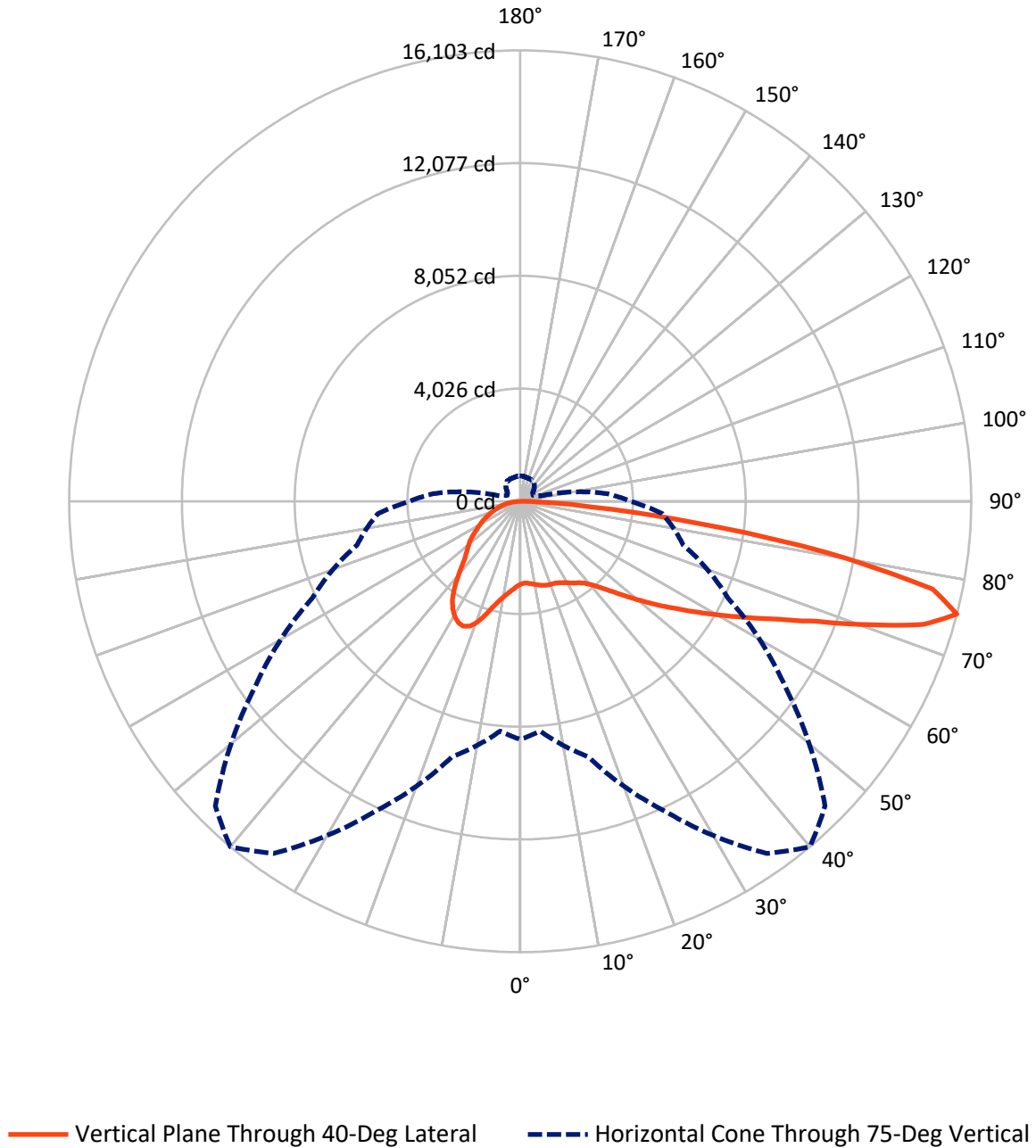
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8016.0	0.0	8016.0
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	17856.0	0.0	17856.0
	% Fixture	69.0	0.0	69.0
Total	Lumens	25872.0	0.0	25872.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.3	1.1
10°-20°	991.5	3.8
20°-30°	1810.4	7.0
30°-40°	2567.7	9.9
40°-50°	3467.1	13.4
50°-60°	4664.2	18.0
60°-70°	5919.9	22.9
70°-80°	5372.7	20.8
80°-90°	783.2	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°	25872.0	100.0
0°-180°	25872.0	100.0



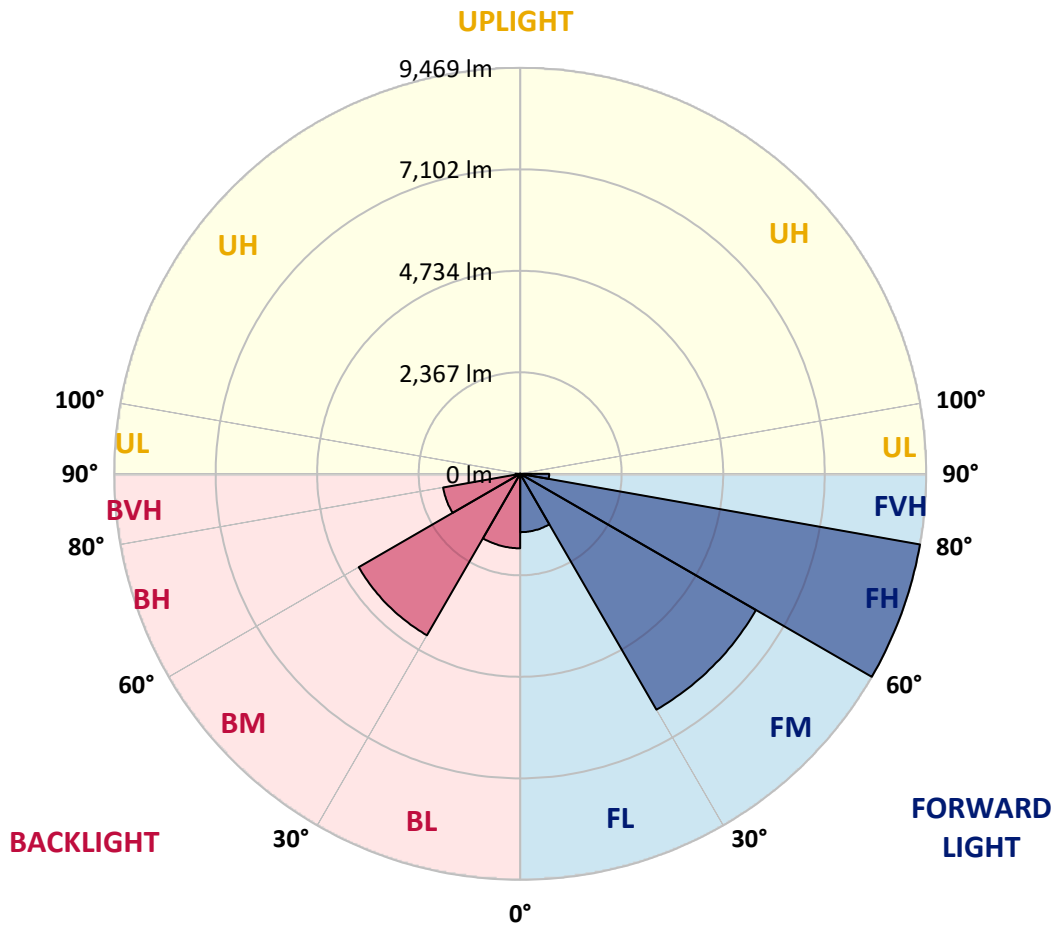
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1360.9	5.3			
FM (30°-60°)	6351.0	24.5			
FH (60°-80°)	9468.8	36.6			G4/12000
FVH (80°-90°)	675.3	2.6			G4/750
BL (0°-30°)	1736.3	6.7	B3/2500		
BM (30°-60°)	4348.0	16.8	B3/5000		
BH (60°-80°)	1823.9	7.0	B3/2500		G3/2500
BVH (80°-90°)	107.8	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°	2958.5	2958.5	2958.5	2958.5	2958.5	2958.5	2958.5	2958.5	2958.5	2958.5
2.5°	2913.2	2929.7	2925.6	2920.1	2920.1	2921.4	2920.1	2929.7	2939.3	2948.9
5°	2943.4	2959.9	2951.6	2944.8	2939.3	2937.9	2933.8	2932.4	2937.9	2950.3
7.5°	3002.4	3018.9	3006.5	2994.2	2983.2	2977.7	2972.2	2964.0	2959.9	2966.7
10°	3068.3	3084.7	3069.6	3047.7	3029.9	3023.0	3017.5	3009.3	3003.8	3007.9
12.5°	3134.1	3150.6	3130.0	3099.8	3076.5	3072.4	3065.5	3062.8	3061.4	3060.0
15°	3195.9	3209.6	3183.5	3147.9	3123.2	3116.3	3109.4	3113.6	3120.4	3128.7
17.5°	3243.9	3257.6	3219.2	3172.6	3149.2	3146.5	3142.4	3156.1	3175.3	3195.9
20°	3287.8	3301.6	3252.2	3189.0	3161.6	3161.6	3163.0	3191.8	3219.2	3249.4
22.5°	3349.6	3360.6	3300.2	3213.7	3173.9	3176.7	3187.7	3216.5	3250.8	3291.9
25°	3441.5	3449.8	3375.7	3260.4	3215.1	3223.3	3232.9	3246.7	3279.6	3327.6
27.5°	3589.7	3596.6	3499.2	3342.7	3274.1	3287.8	3301.6	3291.9	3307.0	3348.2
30°	3798.3	3802.4	3678.9	3471.7	3374.3	3381.1	3383.9	3344.1	3315.3	3348.2
32.5°	4045.3	4043.9	3897.1	3628.1	3488.2	3481.3	3458.0	3379.8	3312.5	3341.3
35°	4428.1	4413.0	4223.7	3847.7	3617.2	3574.6	3519.7	3419.6	3326.3	3334.5
37.5°	5062.1	5015.4	4753.4	4207.2	3809.3	3700.9	3619.9	3484.1	3356.4	3331.7
40°	5777.0	5718.0	5429.9	4699.8	4097.4	3923.2	3792.8	3576.0	3405.8	3344.1
42.5°	6625.1	6541.4	6231.2	5280.3	4462.4	4210.0	4013.7	3692.6	3478.6	3383.9
45°	7666.6	7555.4	7116.3	5934.8	4922.1	4585.9	4323.9	3869.6	3589.7	3460.7
47.5°	8719.1	8746.5	8122.1	6684.1	5473.8	5049.8	4712.2	4135.9	3751.6	3584.2
50°	9837.4	9856.6	9122.5	7514.3	6099.5	5573.9	5148.6	4433.6	3976.7	3759.9
52.5°	10710.1	10712.9	10030.9	8382.9	6751.3	6150.3	5619.2	4773.9	4237.4	3993.1
55°	11256.3	11249.4	10667.6	9204.8	7500.5	6755.4	6140.7	5160.9	4555.8	4267.6
57.5°	11652.9	11632.3	11106.7	9911.5	8299.2	7470.3	6730.7	5600.0	4931.7	4594.2
60°	11803.8	11791.5	11404.5	10522.2	9139.0	8260.7	7411.3	6091.3	5358.5	4979.8
62.5°	11861.4	11884.8	11696.8	11113.6	10037.8	9136.2	8159.2	6678.6	5838.8	5416.1
65°	12064.5	12107.1	12068.6	11887.5	11053.2	10161.3	9151.3	7377.0	6363.0	5884.1
67.5°	12466.6	12509.1	12525.6	12813.8	12293.7	11438.8	10389.0	8247.0	6976.3	6369.8
70°	12457.0	12444.6	12735.5	13550.6	13847.0	13207.6	12057.7	9317.3	7707.7	6773.3
72.5°	11338.6	11239.8	11927.3	13542.4	15139.7	15054.6	14095.4	10697.8	8339.0	6822.7
75°	8506.4	8242.9	9457.3	12204.5	15355.1	16103.0	15390.8	11554.1	8189.4	6028.1
77.5°	3637.7	3372.9	4804.1	9034.7	13742.7	15053.2	14202.4	10080.3	6537.2	3986.3
80°	952.3	950.9	1451.8	4096.1	9346.2	11116.3	9752.3	6509.8	3735.2	1424.4
82.5°	393.8	384.2	533.8	1593.1	4566.7	6238.1	5090.9	2903.6	1348.9	385.6
85°	146.8	145.5	259.3	550.3	1611.0	2572.9	1862.1	742.4	336.2	188.0
87.5°	41.2	39.8	56.3	190.7	392.5	595.5	318.4	122.1	94.7	74.1
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°
2958.5	0°	2958.5	2958.5	2958.5	2958.5	2958.5	2958.5	2958.5	2958.5	2958.5	2958.5
2964.0	2.5°	2968.1	2975.0	2987.3	2996.9	3009.3	3023.0	3042.2	3054.6	3066.9	3075.1
2970.8	5°	2980.5	2995.5	3027.1	3058.7	3095.7	3130.0	3169.8	3198.6	3222.0	3228.8
2995.5	7.5°	3007.9	3032.6	3086.1	3139.6	3198.6	3254.9	3312.5	3361.9	3401.7	3416.8
3039.5	10°	3055.9	3088.9	3164.3	3239.8	3318.0	3404.5	3478.6	3549.9	3606.2	3629.5
3091.6	12.5°	3116.3	3157.5	3256.3	3360.6	3469.0	3588.3	3684.4	3772.2	3842.2	3873.8
3164.3	15°	3194.5	3248.0	3374.3	3514.2	3673.4	3839.5	3961.6	4059.0	4137.2	4175.7
3239.8	17.5°	3279.6	3351.0	3510.1	3721.4	3949.2	4167.4	4310.1	4381.5	4462.4	4499.5
3309.8	20°	3361.9	3449.8	3677.5	3984.9	4288.2	4520.1	4635.3	4654.6	4660.0	4664.2
3375.7	22.5°	3447.0	3565.0	3887.5	4317.0	4642.2	4802.8	4819.2	4736.9	4621.6	4568.1
3440.1	25°	3540.3	3696.7	4161.9	4683.4	4946.8	4966.0	4839.8	4639.5	4421.3	4321.1
3492.3	27.5°	3630.9	3849.1	4491.3	5033.3	5166.4	4997.6	4725.9	4441.9	4178.4	4072.7
3529.3	30°	3721.4	4023.3	4854.9	5339.3	5266.6	4919.4	4546.2	4229.2	3964.3	3853.2
3562.3	32.5°	3813.4	4226.4	5273.4	5560.2	5248.7	4753.4	4322.5	3990.4	3757.1	3640.5
3591.1	35°	3917.7	4476.2	5670.0	5681.0	5129.3	4509.1	4027.5	3705.0	3501.9	3408.6
3625.4	37.5°	4053.5	4793.2	6019.9	5711.2	4920.8	4151.0	3661.1	3367.4	3200.0	3157.5
3676.2	40°	4222.3	5174.6	6287.5	5663.1	4612.0	3716.0	3260.4	3025.7	2931.1	2940.7
3744.8	42.5°	4441.9	5601.4	6475.5	5539.6	4182.5	3267.2	2909.1	2804.8	2850.1	2888.5
3847.7	45°	4727.3	6044.6	6592.1	5329.7	3696.7	2887.1	2701.9	2726.6	2760.9	2765.0
4013.7	47.5°	5092.3	6493.3	6669.0	5012.7	3201.4	2619.6	2570.2	2575.6	2568.8	2540.0
4262.1	50°	5547.9	6929.7	6737.6	4592.8	2780.1	2452.1	2386.3	2367.1	2272.4	2179.1
4592.8	52.5°	6066.6	7330.4	6766.4	4071.4	2452.1	2312.2	2205.2	2084.4	1907.4	1878.6
5008.6	55°	6642.9	7700.9	6692.3	3430.5	2176.3	2132.4	1970.5	1825.0	1805.8	1781.1
5556.1	57.5°	7331.8	8100.2	6541.4	2715.6	1893.7	1922.5	1764.7	1781.1	1746.8	1708.4
6260.0	60°	8085.1	8513.2	6276.5	2063.8	1601.4	1660.4	1711.2	1709.8	1700.2	1668.6
7002.4	62.5°	8763.0	8784.9	5755.1	1580.8	1344.8	1457.3	1595.9	1594.5	1586.3	1568.4
7777.7	65°	9166.4	8743.8	4885.1	1244.6	1133.5	1289.9	1439.5	1450.4	1451.8	1450.4
8360.9	67.5°	9095.0	8262.1	3691.3	990.7	959.2	1119.7	1284.4	1299.5	1310.5	1313.2
8435.0	70°	8288.2	7204.1	2406.9	790.4	804.1	970.2	1137.6	1152.7	1162.3	1173.2
7319.4	72.5°	6460.4	5296.8	1377.7	639.5	668.3	841.2	992.1	1010.0	1015.4	1036.0
5093.7	75°	3936.9	3114.9	743.7	503.6	548.9	719.0	848.0	868.6	878.2	902.9
2501.5	77.5°	1871.7	1348.9	424.0	392.5	441.9	587.3	716.3	739.6	713.6	727.3
690.2	80°	632.6	500.9	267.6	299.1	337.6	458.3	573.6	596.9	542.0	539.3
229.2	82.5°	220.9	203.1	170.2	199.0	218.2	328.0	433.6	463.8	403.4	402.1
102.9	85°	86.4	82.3	94.7	108.4	130.4	201.7	285.4	300.5	248.4	200.3
30.2	87.5°	17.8	19.2	23.3	24.7	39.8	70.0	102.9	126.2	100.2	85.1
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>
2958.5
3069.6
3231.6
3418.2
3630.9
3873.8
4172.9
4498.1
4675.1
4583.2
4336.2
4085.1
3865.5
3655.6
3429.2
3187.7
2973.6
2924.2
2792.5
2561.9
2191.4
1888.2
1785.3
1701.5
1657.6
1561.6
1450.4
1316.0
1178.7
1044.3
905.7
716.3
533.8
382.8
197.6
78.2
0.0

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