

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: P940977

Luminaire Tested: **GALN-SB4B-750-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940977
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
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-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23892 lumens
Efficiency: N/A
Efficacy: 162.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

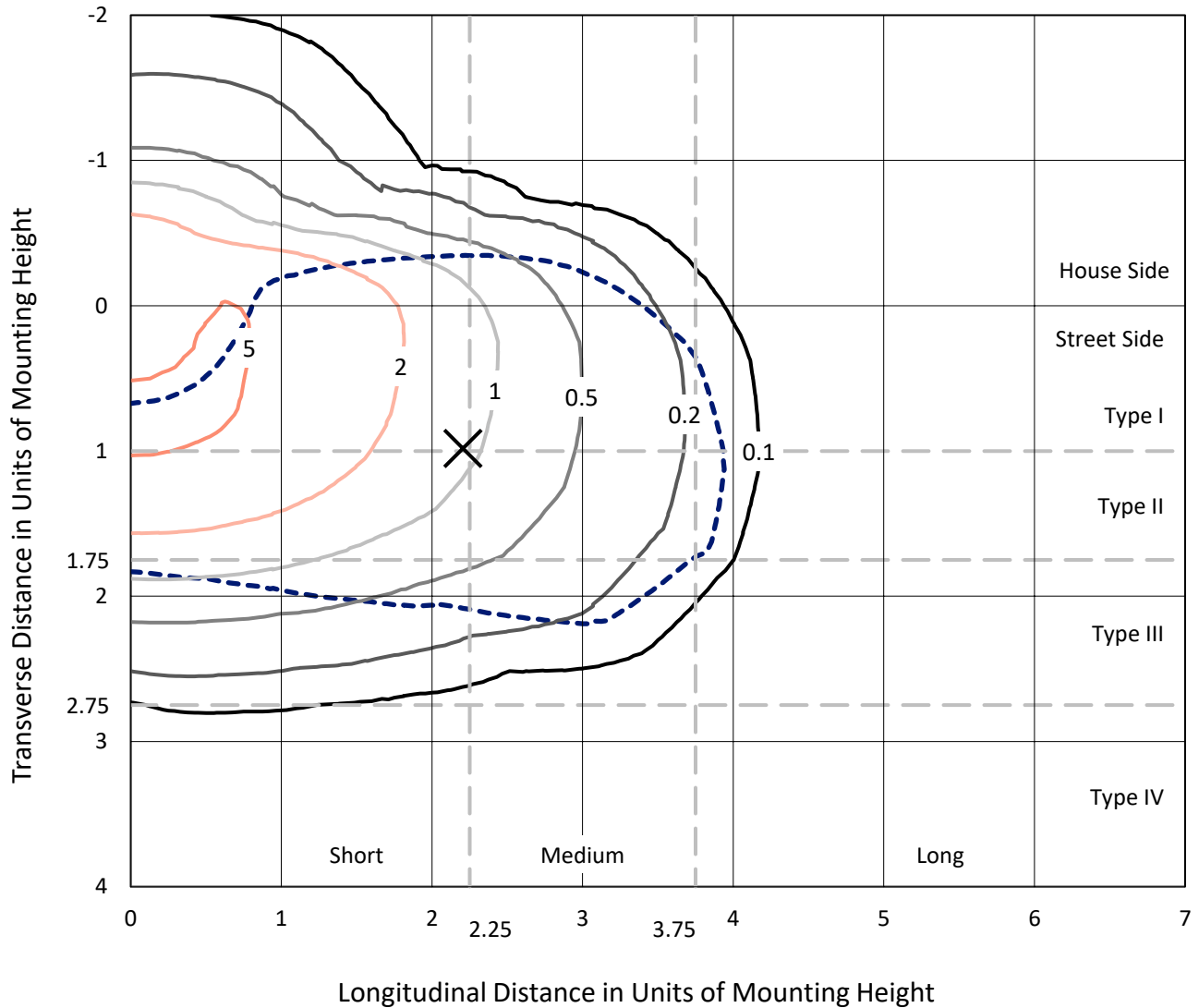
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

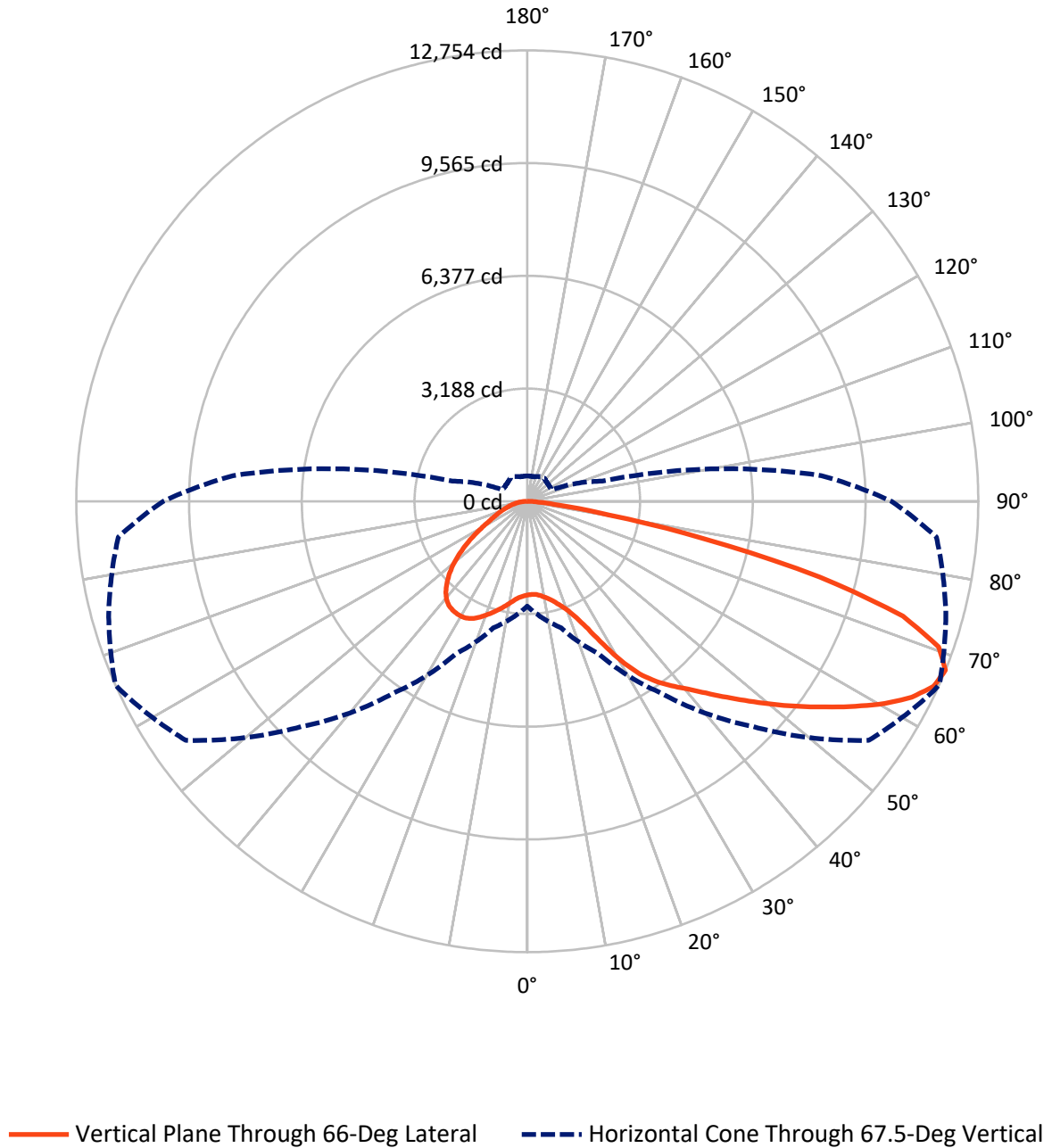
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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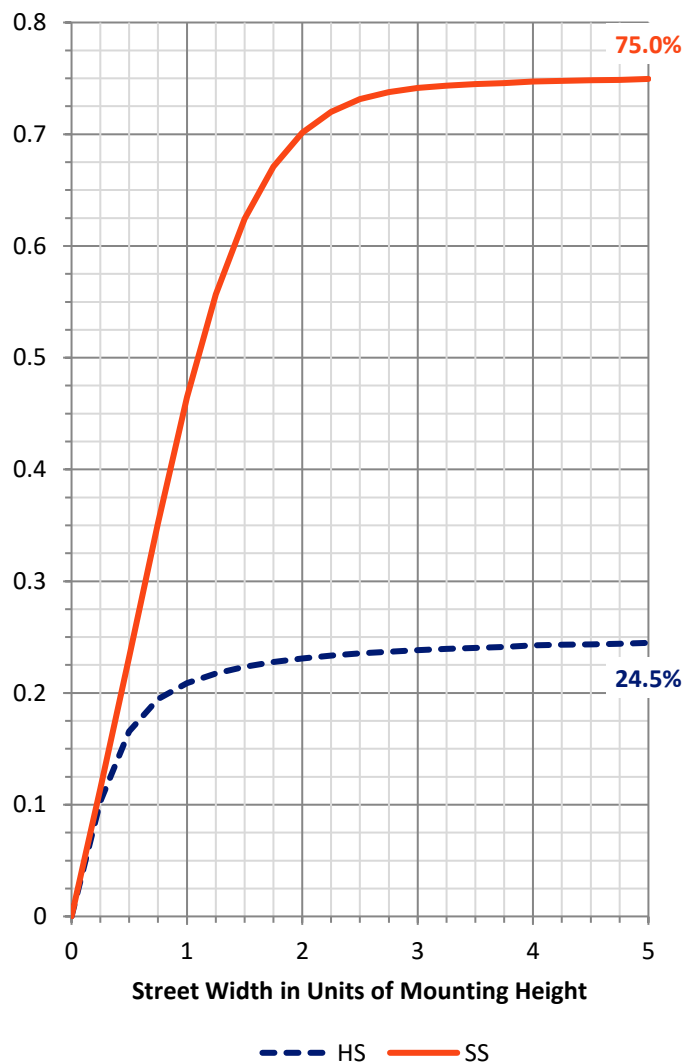
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5940.7	0.0	5940.7
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	17951.3	0.0	17951.3
	% Fixture	75.1	0.0	75.1
Total	Lumens	23892.0	0.0	23892.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.7	1.1
10°-20°	868.0	3.6
20°-30°	1673.1	7.0
30°-40°	2933.5	12.3
40°-50°	4361.2	18.3
50°-60°	5528.2	23.1
60°-70°	5409.2	22.6
70°-80°	2580.3	10.8
80°-90°	275.8	1.2
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°	23892.0	100.0
0°-180°	23892.0	100.0

Coefficient of Utilization



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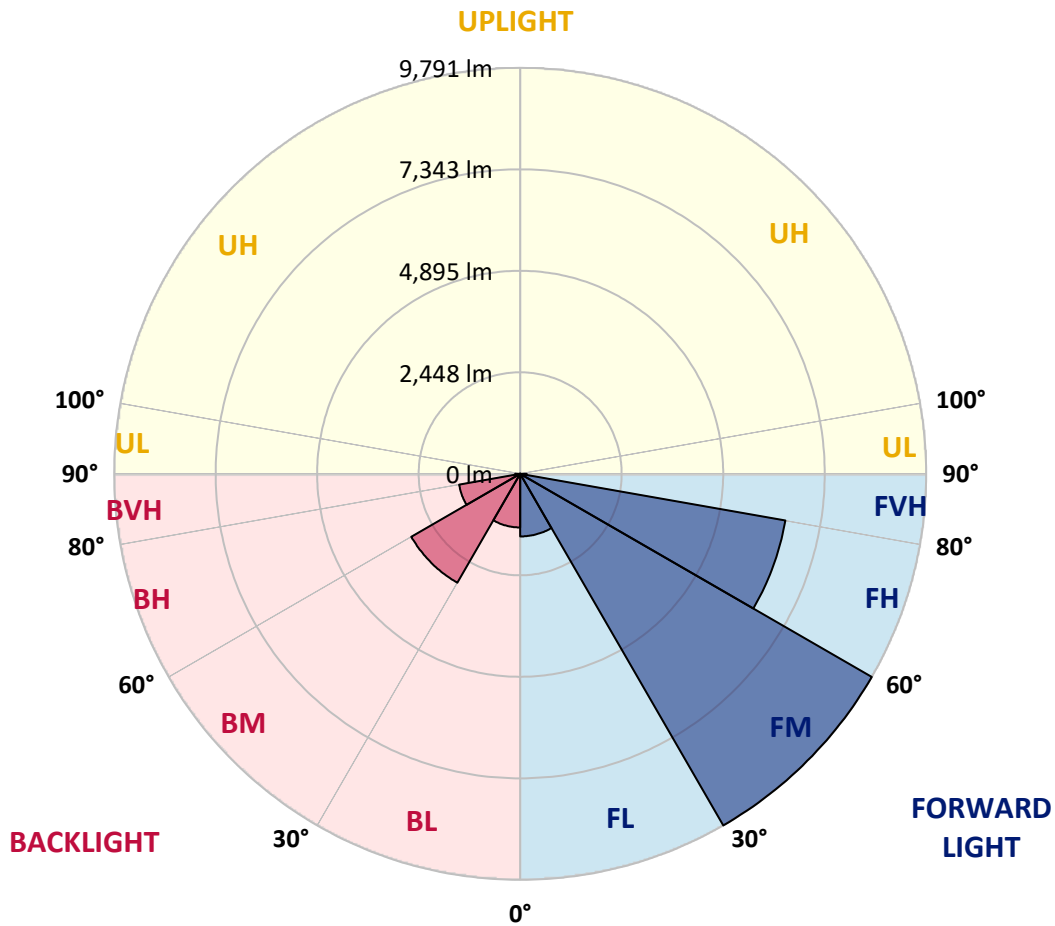
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1509.7	6.3			
FM (30°-60°)	9790.7	41.0			
FH (60°-80°)	6494.5	27.2			G3/7500
FVH (80°-90°)	156.3	0.7			G2/225
BL (0°-30°)	1294.1	5.4	B3/2500		
BM (30°-60°)	3032.2	12.7	B3/5000		
BH (60°-80°)	1495.0	6.3	B3/2500		G3/2500
BVH (80°-90°)	119.4	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	2649.9	2649.9	2649.9	2649.9	2649.9	2649.9	2649.9	2649.9	2649.9	2649.9
2.5°	2622.3	2637.4	2633.6	2627.3	2626.1	2628.6	2632.4	2636.1	2634.9	2641.2
5°	2614.8	2629.9	2628.6	2628.6	2633.6	2643.7	2649.9	2656.2	2649.9	2657.5
7.5°	2619.8	2631.1	2636.1	2641.2	2653.7	2672.5	2687.6	2701.4	2693.9	2702.7
10°	2683.8	2692.6	2697.6	2697.6	2706.4	2727.8	2742.8	2767.9	2761.7	2775.5
12.5°	2800.6	2809.4	2809.4	2804.3	2810.6	2824.4	2829.4	2857.1	2845.8	2868.4
15°	2943.7	2961.3	2947.4	2938.7	2941.2	2955.0	2953.7	2975.1	2963.8	2982.6
17.5°	3101.8	3124.4	3101.8	3100.6	3095.6	3110.6	3111.9	3130.7	3110.6	3124.4
20°	3288.9	3320.3	3301.4	3307.7	3296.4	3302.7	3309.0	3336.6	3305.2	3315.2
22.5°	3552.5	3590.2	3570.1	3593.9	3586.4	3581.4	3580.1	3629.1	3580.1	3583.9
25°	3936.6	3981.8	3946.7	3979.3	3979.3	3995.6	4014.4	4077.2	3995.6	3971.8
27.5°	4504.0	4549.2	4480.2	4500.3	4494.0	4534.1	4514.1	4669.7	4581.8	4542.9
30°	5186.9	5267.2	5136.7	5131.7	5125.4	5189.4	5218.3	5321.2	5232.1	5193.2
32.5°	5925.0	6009.1	5853.5	5808.3	5784.4	5823.3	5799.5	5882.3	5820.8	5760.6
35°	6705.8	6788.7	6640.5	6552.7	6457.3	6375.7	6290.3	6311.6	6253.9	6162.3
37.5°	7443.9	7595.8	7438.9	7344.8	7169.0	7009.6	6771.1	6671.9	6617.9	6533.8
40°	8195.9	8282.5	8163.2	8082.9	7892.1	7642.3	7260.7	7051.0	6978.2	6896.6
42.5°	8749.4	8832.3	8768.3	8713.0	8563.7	8273.7	7780.4	7518.0	7412.5	7320.9
45°	9188.8	9250.3	9210.1	9230.2	9166.2	8885.0	8318.9	8018.9	7909.6	7797.9
47.5°	9365.8	9431.1	9495.1	9614.3	9723.6	9516.4	8897.6	8561.1	8445.7	8331.4
50°	9345.7	9412.2	9598.0	9851.6	10190.5	10121.5	9507.6	9138.6	9031.9	8901.3
52.5°	9185.0	9260.3	9498.9	9920.6	10460.4	10574.6	10129.0	9734.9	9634.4	9478.8
55°	8763.3	8808.4	9166.2	9763.7	10524.4	10891.0	10737.8	10370.0	10269.6	10052.4
57.5°	7981.2	8046.5	8567.4	9340.7	10363.8	11105.6	11272.6	11037.9	10941.2	10628.6
60°	6960.6	7064.8	7661.1	8630.2	9954.5	11104.4	11758.4	11694.4	11614.0	11196.0
62.5°	5805.8	5926.3	6499.9	7625.9	9239.0	10789.3	12062.2	12244.2	12202.8	11719.5
65°	4458.8	4541.7	5112.8	6326.7	8125.6	10112.7	12097.3	12619.5	12627.1	12117.4
67.5°	2968.8	3207.3	3703.1	4747.5	6634.3	9006.8	11788.5	12681.0	12753.8	12254.2
70°	1448.6	1762.4	2248.2	3085.5	4747.5	7310.9	10981.4	12176.4	12338.3	11855.1
72.5°	601.3	703.0	967.8	1522.7	2725.3	4933.3	9359.5	10808.1	11108.2	10504.4
75°	405.5	439.4	553.6	780.8	1241.5	2432.8	6749.7	8059.0	8542.3	7933.5
77.5°	312.6	333.9	403.0	546.1	738.1	920.1	3612.8	4856.8	5106.6	4727.5
80°	246.0	262.4	301.3	397.9	523.5	492.1	1231.4	2200.5	2344.9	1967.1
82.5°	213.4	219.7	215.9	269.9	347.7	287.5	404.2	812.2	896.3	650.2
85°	154.4	172.0	179.5	167.0	184.5	145.6	165.7	287.5	316.3	282.4
87.5°	62.8	92.9	114.2	108.0	67.8	41.4	51.5	84.1	96.7	105.4
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°
2649.9	0°	2649.9	2649.9	2649.9	2649.9	2649.9	2649.9	2649.9	2649.9	2649.9	2649.9
2651.2	2.5°	2652.4	2661.2	2667.5	2675.0	2680.1	2687.6	2702.7	2711.4	2712.7	2719.0
2671.3	5°	2676.3	2688.9	2702.7	2722.7	2745.3	2764.2	2793.0	2813.1	2820.7	2826.9
2720.2	7.5°	2727.8	2745.3	2770.4	2805.6	2838.2	2863.3	2898.5	2922.3	2946.2	2955.0
2798.1	10°	2804.3	2829.4	2865.9	2913.6	2948.7	2981.3	3017.7	3037.8	3061.7	3071.7
2891.0	12.5°	2899.7	2926.1	2973.8	3040.3	3073.0	3095.6	3108.1	3103.1	3108.1	3116.9
3002.7	15°	3009.0	3037.8	3091.8	3163.4	3186.0	3165.9	3138.3	3113.1	3109.4	3111.9
3138.3	17.5°	3138.3	3159.6	3222.4	3282.6	3266.3	3183.4	3123.2	3083.0	3062.9	3056.7
3311.5	20°	3319.0	3319.0	3370.5	3408.1	3298.9	3158.3	3064.2	2998.9	2957.5	2939.9
3547.5	22.5°	3538.7	3518.6	3551.2	3524.9	3292.7	3088.0	2957.5	2844.5	2781.7	2756.6
3877.6	25°	3817.4	3793.5	3784.7	3621.5	3247.5	2976.3	2764.2	2627.3	2572.1	2558.3
4353.4	27.5°	4237.9	4177.6	4063.4	3674.3	3164.6	2800.6	2538.2	2411.4	2380.0	2381.3
4964.7	30°	4797.8	4677.2	4397.3	3683.1	3029.0	2552.0	2307.2	2216.9	2201.8	2208.1
5478.1	32.5°	5316.2	5202.0	4738.8	3642.9	2820.7	2308.5	2100.1	2039.9	2017.3	2024.8
5869.8	35°	5722.9	5691.5	5055.1	3586.4	2564.6	2080.0	1914.3	1862.9	1818.9	1808.9
6238.8	37.5°	6107.0	6094.5	5292.3	3507.3	2311.0	1918.1	1765.0	1697.2	1633.1	1598.0
6646.8	40°	6528.8	6516.3	5448.0	3385.5	2086.3	1777.5	1630.6	1541.5	1462.4	1398.4
7108.8	42.5°	7003.3	6929.3	5522.1	3211.1	1895.5	1658.3	1521.4	1400.9	1296.7	1237.7
7631.0	45°	7521.8	7354.8	5520.8	2988.9	1734.8	1549.0	1404.7	1234.0	1137.3	1082.1
8167.0	47.5°	8071.6	7761.5	5453.0	2742.8	1579.2	1428.5	1223.9	1093.4	1029.3	995.5
8749.4	50°	8639.0	8141.9	5337.5	2460.4	1419.7	1291.7	1110.9	1021.8	972.9	941.5
9326.9	52.5°	9172.5	8487.1	5198.2	2140.3	1257.8	1158.6	1060.7	991.7	940.2	905.1
9886.7	55°	9668.3	8784.6	5001.1	1812.7	1126.0	1069.5	1036.9	979.1	920.1	878.7
10455.4	57.5°	10108.9	8977.9	4660.9	1505.1	1031.9	1008.0	1011.8	957.8	890.0	854.9
11015.3	60°	10475.5	9119.8	4157.6	1220.2	955.3	947.8	972.9	917.6	838.5	798.4
11488.5	62.5°	10695.2	9117.2	3539.9	999.2	890.0	892.5	921.4	867.4	787.1	749.4
11735.8	65°	10676.3	8893.8	2862.1	854.9	827.2	829.8	867.4	812.2	744.4	721.8
11611.5	67.5°	10298.5	8349.0	2195.5	760.7	758.2	769.5	813.4	774.5	718.0	715.5
10870.9	70°	9275.4	7218.0	1581.7	685.4	686.6	703.0	760.7	750.7	704.2	709.2
9139.8	72.5°	7437.7	5503.2	1062.0	606.3	607.6	633.9	710.5	731.8	690.4	756.9
6484.9	75°	4953.4	3432.0	682.9	522.2	523.5	557.4	666.6	695.4	652.8	754.4
3374.2	77.5°	2380.0	1542.8	494.6	439.4	439.4	470.7	576.2	622.6	556.1	586.2
1084.6	80°	822.2	579.9	389.1	354.0	346.5	367.8	485.8	539.8	479.5	441.9
354.0	82.5°	323.9	301.3	312.6	274.9	249.8	263.6	377.8	445.6	352.7	318.8
199.6	85°	185.8	195.8	220.9	182.0	144.4	161.9	277.4	320.1	266.1	234.7
65.3	87.5°	50.2	69.0	101.7	94.1	65.3	69.0	131.8	177.0	153.1	118.0
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>
2649.9
2717.7
2825.7
2956.2
3076.7
3119.4
3120.7
3065.4
2936.1
2752.9
2560.8
2385.1
2229.4
2034.8
1816.4
1599.3
1404.7
1241.5
1079.6
987.9
930.2
890.0
862.4
832.3
780.8
738.1
720.5
719.3
708.0
767.0
760.7
537.3
414.2
317.6
239.8
121.8
0.0

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