

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: P940487

Luminaire Tested: **GALN-SB3C-827-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940487
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-SB3C-827-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19552 lumens
Efficiency: N/A
Efficacy: 131.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

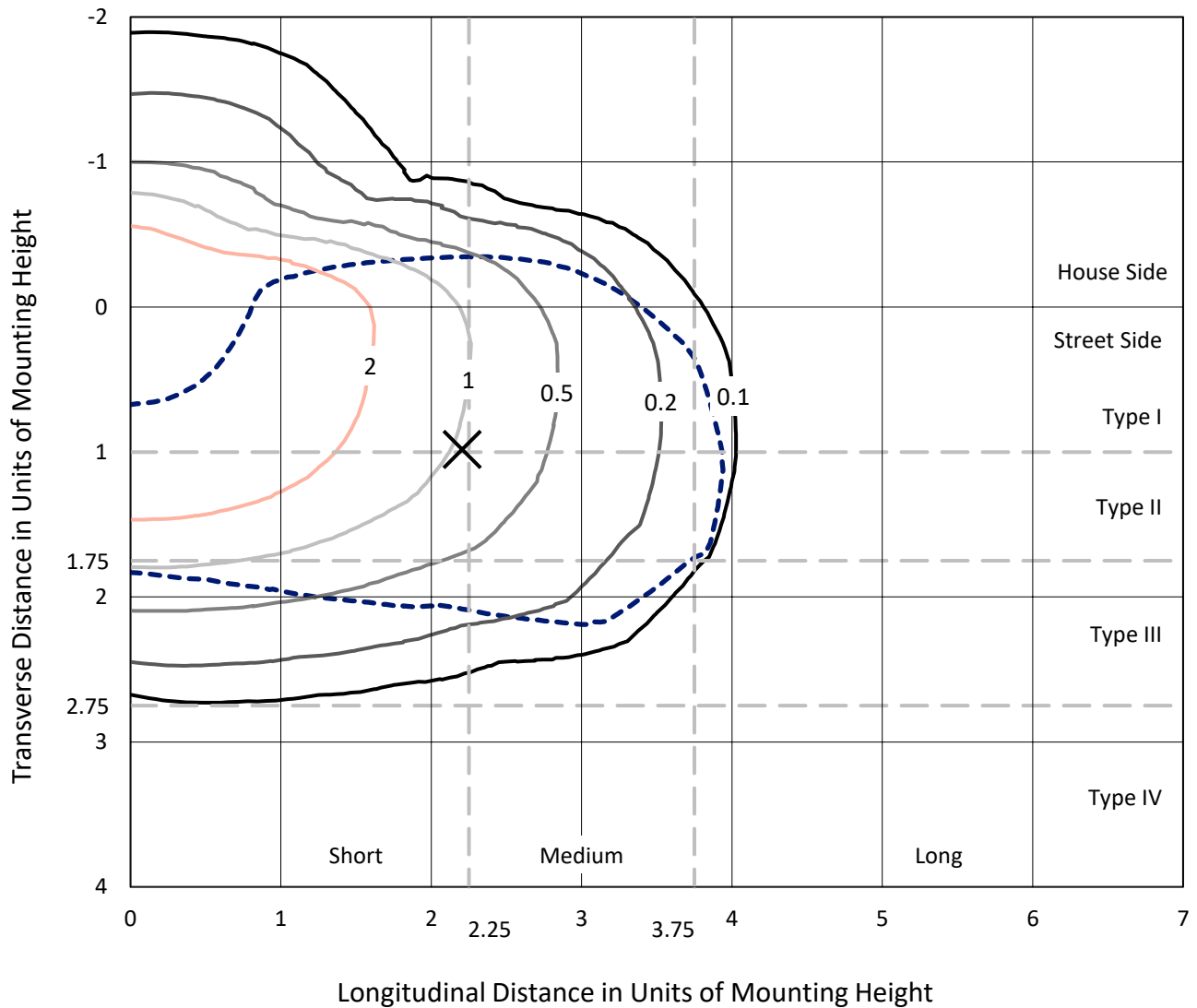
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

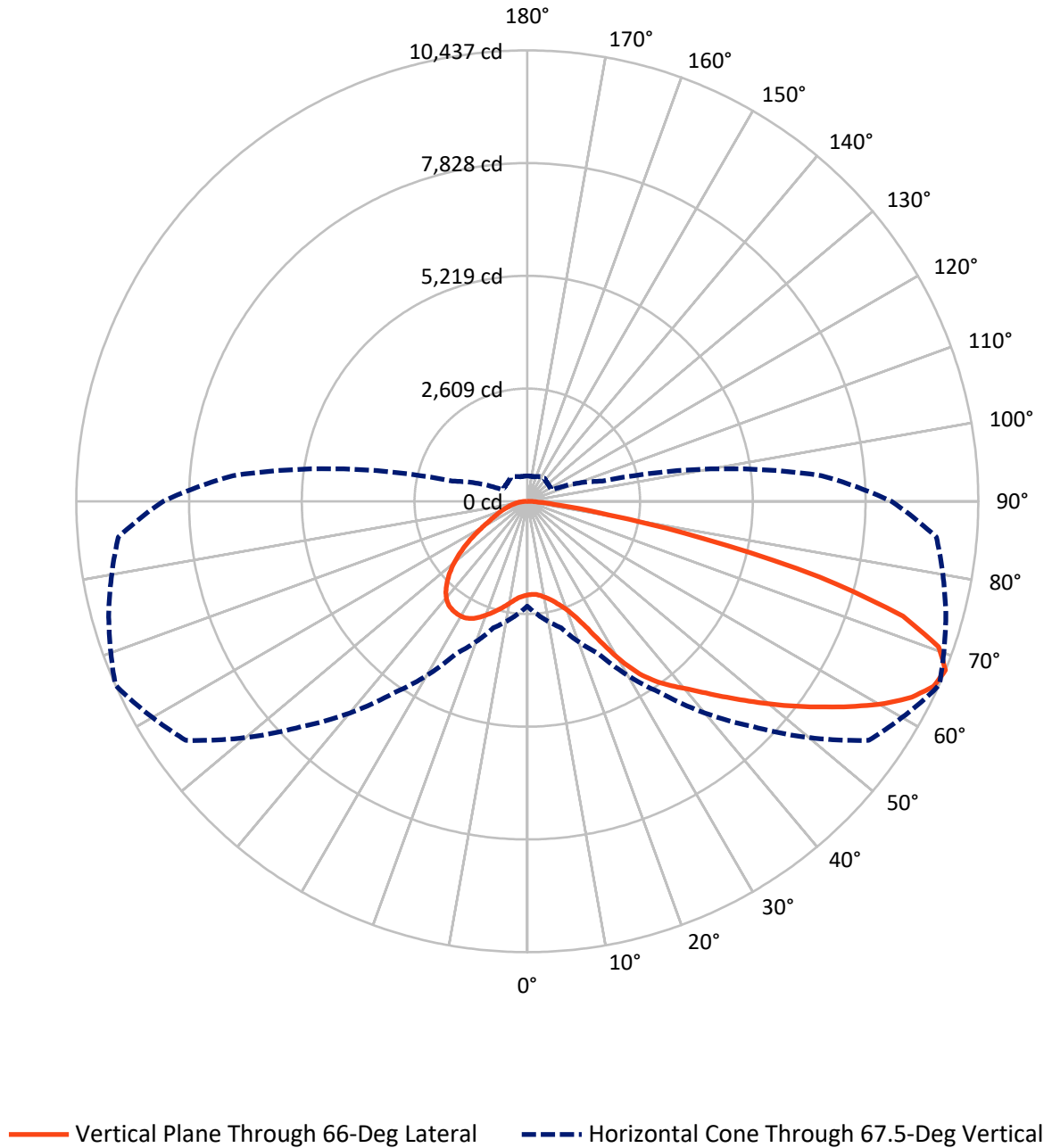
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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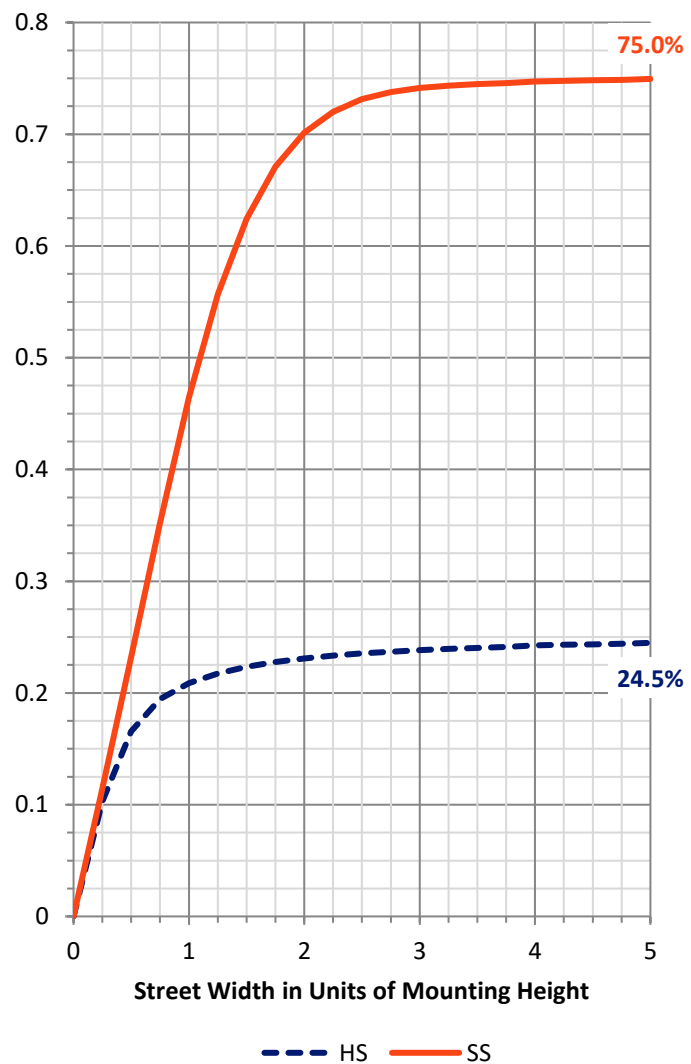
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4861.5	0.0	4861.5
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	14690.4	0.0	14690.4
	% Fixture	75.1	0.0	75.1
Total	Lumens	19552.0	0.0	19552.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.0	1.1
10°-20°	710.3	3.6
20°-30°	1369.2	7.0
30°-40°	2400.6	12.3
40°-50°	3569.0	18.3
50°-60°	4524.0	23.1
60°-70°	4426.6	22.6
70°-80°	2111.5	10.8
80°-90°	225.7	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°	19552.0	100.0
0°-180°	19552.0	100.0

Coefficient of Utilization



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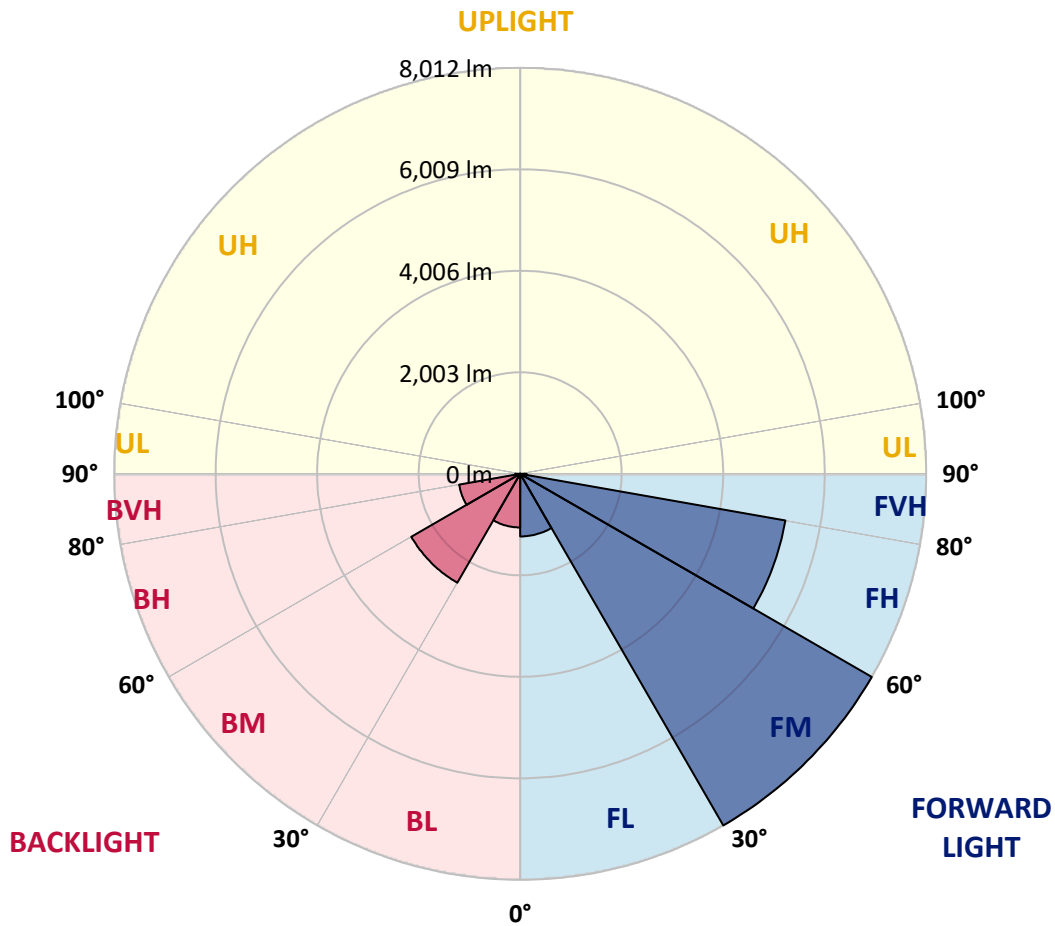
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1235.5	6.3			
FM (30°-60°)	8012.2	41.0			
FH (60°-80°)	5314.8	27.2			G3/7500
FVH (80°-90°)	127.9	0.7			G2/225
BL (0°-30°)	1059.0	5.4	B3/2500		
BM (30°-60°)	2481.4	12.7	B2/2500		
BH (60°-80°)	1223.4	6.3	B3/2500		G3/2500
BVH (80°-90°)	97.7	0.5			G1/100
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°	2168.6	2168.6	2168.6	2168.6	2168.6	2168.6	2168.6	2168.6	2168.6	2168.6
2.5°	2146.0	2158.3	2155.2	2150.1	2149.1	2151.1	2154.2	2157.3	2156.2	2161.4
5°	2139.8	2152.1	2151.1	2151.1	2155.2	2163.4	2168.6	2173.7	2168.6	2174.7
7.5°	2143.9	2153.2	2157.3	2161.4	2171.7	2187.1	2199.4	2210.7	2204.5	2211.7
10°	2196.3	2203.5	2207.6	2207.6	2214.8	2232.3	2244.6	2265.1	2260.0	2271.3
12.5°	2291.8	2299.0	2299.0	2294.9	2300.1	2311.4	2315.5	2338.1	2328.8	2347.3
15°	2409.0	2423.3	2412.0	2404.8	2406.9	2418.2	2417.2	2434.6	2425.4	2440.8
17.5°	2538.4	2556.9	2538.4	2537.4	2533.3	2545.6	2546.6	2562.0	2545.6	2556.9
20°	2691.5	2717.1	2701.7	2706.9	2697.6	2702.8	2707.9	2730.5	2704.8	2713.0
22.5°	2907.2	2938.0	2921.6	2941.1	2934.9	2930.8	2929.8	2969.8	2929.8	2932.9
25°	3221.5	3258.5	3229.7	3256.5	3256.5	3269.8	3285.2	3336.6	3269.8	3250.3
27.5°	3685.9	3722.8	3666.3	3682.8	3677.6	3710.5	3694.1	3821.5	3749.5	3717.7
30°	4244.7	4310.4	4203.6	4199.5	4194.4	4246.8	4270.4	4354.6	4281.7	4249.8
32.5°	4848.7	4917.6	4790.2	4753.2	4733.7	4765.5	4746.0	4813.8	4763.5	4714.2
35°	5487.7	5555.5	5434.3	5362.4	5284.3	5217.5	5147.7	5165.1	5117.9	5042.9
37.5°	6091.7	6216.0	6087.6	6010.6	5866.8	5736.3	5541.1	5460.0	5415.8	5347.0
40°	6707.1	6778.0	6680.4	6614.6	6458.5	6254.0	5941.8	5770.2	5710.6	5643.8
42.5°	7160.1	7227.9	7175.5	7130.3	7008.1	6770.8	6367.0	6152.3	6066.1	5991.1
45°	7519.6	7570.0	7537.1	7553.5	7501.2	7271.0	6807.7	6562.2	6472.9	6381.4
47.5°	7664.5	7717.9	7770.3	7867.9	7957.3	7787.8	7281.3	7006.0	6911.5	6818.0
50°	7648.1	7702.5	7854.5	8062.0	8339.4	8282.9	7780.6	7478.6	7391.2	7284.4
52.5°	7516.6	7578.2	7773.4	8118.5	8560.3	8653.8	8289.1	7966.5	7884.3	7756.9
55°	7171.4	7208.4	7501.2	7990.1	8612.7	8912.6	8787.3	8486.3	8404.1	8226.4
57.5°	6531.4	6584.8	7011.1	7643.9	8481.2	9088.3	9224.9	9032.8	8953.7	8697.9
60°	5696.2	5781.5	6269.5	7062.5	8146.3	9087.3	9622.5	9570.1	9504.3	9162.3
62.5°	4751.1	4849.8	5319.2	6240.7	7560.7	8829.4	9871.1	10020.0	9986.1	9590.6
65°	3648.9	3716.7	4184.1	5177.5	6649.5	8275.7	9899.8	10327.2	10333.3	9916.3
67.5°	2429.5	2624.7	3030.5	3885.1	5429.1	7370.7	9647.1	10377.5	10437.1	10028.2
70°	1185.5	1442.3	1839.8	2525.0	3885.1	5982.8	8986.6	9964.6	10097.1	9701.6
72.5°	492.1	575.3	792.0	1246.1	2230.2	4037.2	7659.4	8844.8	9090.3	8596.2
75°	331.8	359.5	453.0	639.0	1016.0	1990.9	5523.7	6595.1	6990.6	6492.4
77.5°	255.8	273.3	329.8	446.9	604.0	753.0	2956.5	3974.5	4179.0	3868.7
80°	201.3	214.7	246.5	325.6	428.4	402.7	1007.8	1800.8	1918.9	1609.7
82.5°	174.6	179.8	176.7	220.9	284.6	235.2	330.8	664.6	733.5	532.1
85°	126.4	140.7	146.9	136.6	151.0	119.2	135.6	235.2	258.9	231.1
87.5°	51.4	76.0	93.5	88.3	55.5	33.9	42.1	68.8	79.1	86.3
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°
2168.6	0°	2168.6	2168.6	2168.6	2168.6	2168.6	2168.6	2168.6	2168.6	2168.6	2168.6
2169.6	2.5°	2170.6	2177.8	2183.0	2189.1	2193.2	2199.4	2211.7	2218.9	2219.9	2225.1
2186.0	5°	2190.1	2200.4	2211.7	2228.2	2246.6	2262.1	2285.7	2302.1	2308.3	2313.4
2226.1	7.5°	2232.3	2246.6	2267.2	2296.0	2322.7	2343.2	2372.0	2391.5	2411.0	2418.2
2289.8	10°	2294.9	2315.5	2345.3	2384.3	2413.1	2439.8	2469.6	2486.0	2505.5	2513.7
2365.8	12.5°	2373.0	2394.6	2433.6	2488.1	2514.8	2533.3	2543.5	2539.4	2543.5	2550.7
2457.2	15°	2462.4	2486.0	2530.2	2588.7	2607.2	2590.8	2568.2	2547.6	2544.6	2546.6
2568.2	17.5°	2568.2	2585.6	2637.0	2686.3	2673.0	2605.2	2555.9	2523.0	2506.5	2501.4
2709.9	20°	2716.1	2716.1	2758.2	2789.0	2699.7	2584.6	2507.6	2454.2	2420.3	2405.9
2903.1	22.5°	2895.9	2879.4	2906.2	2884.6	2694.5	2527.1	2420.3	2327.8	2276.4	2255.9
3173.2	25°	3123.9	3104.4	3097.2	2963.7	2657.6	2435.7	2262.1	2150.1	2104.9	2093.6
3562.6	27.5°	3468.1	3418.8	3325.3	3006.8	2589.8	2291.8	2077.1	1973.4	1947.7	1948.7
4062.9	30°	3926.2	3827.6	3598.5	3014.0	2478.8	2088.4	1888.1	1814.2	1801.8	1807.0
4483.0	32.5°	4350.5	4257.0	3878.0	2981.1	2308.3	1889.2	1718.6	1669.3	1650.8	1657.0
4803.5	35°	4683.3	4657.7	4136.8	2934.9	2098.7	1702.2	1566.6	1524.5	1488.5	1480.3
5105.6	37.5°	4997.7	4987.4	4331.0	2870.2	1891.2	1569.7	1444.3	1388.9	1336.5	1307.7
5439.4	40°	5342.9	5332.6	4458.4	2770.6	1707.3	1454.6	1334.4	1261.5	1196.8	1144.4
5817.5	42.5°	5731.2	5670.6	4519.0	2627.8	1551.2	1357.0	1245.1	1146.4	1061.2	1012.9
6244.8	45°	6155.4	6018.8	4518.0	2445.9	1419.7	1267.7	1149.5	1009.8	930.7	885.5
6683.4	47.5°	6605.4	6351.6	4462.5	2244.6	1292.3	1169.0	1001.6	894.8	842.4	814.6
7160.1	50°	7069.7	6662.9	4368.0	2013.5	1161.8	1057.1	909.1	836.2	796.1	770.5
7632.6	52.5°	7506.3	6945.4	4253.9	1751.5	1029.3	948.2	868.0	811.5	769.4	740.7
8090.8	55°	7912.1	7188.9	4092.7	1483.4	921.5	875.2	848.5	801.3	753.0	719.1
8556.2	57.5°	8272.6	7347.1	3814.3	1231.7	844.4	824.9	828.0	783.8	728.3	699.6
9014.3	60°	8572.6	7463.1	3402.3	998.5	781.8	775.6	796.1	750.9	686.2	653.3
9401.6	62.5°	8752.4	7461.1	2896.9	817.7	728.3	730.4	754.0	709.8	644.1	613.3
9604.0	65°	8737.0	7278.2	2342.2	699.6	677.0	679.0	709.8	664.6	609.2	590.7
9502.3	67.5°	8427.8	6832.4	1796.7	622.5	620.5	629.7	665.7	633.8	587.6	585.5
8896.2	70°	7590.5	5906.8	1294.4	560.9	561.9	575.3	622.5	614.3	576.3	580.4
7479.6	72.5°	6086.6	4503.6	869.1	496.2	497.2	518.8	581.4	598.9	565.0	619.4
5306.9	75°	4053.6	2808.6	558.8	427.3	428.4	456.1	545.5	569.1	534.2	617.4
2761.3	77.5°	1947.7	1262.5	404.7	359.5	359.5	385.2	471.5	509.5	455.1	479.7
887.6	80°	672.9	474.6	318.5	289.7	283.5	301.0	397.6	441.7	392.4	361.6
289.7	82.5°	265.0	246.5	255.8	225.0	204.4	215.7	309.2	364.7	288.7	260.9
163.3	85°	152.0	160.3	180.8	149.0	118.1	132.5	227.0	262.0	217.8	192.1
53.4	87.5°	41.1	56.5	83.2	77.0	53.4	56.5	107.9	144.8	125.3	96.6
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>
2168.6
2224.0
2312.4
2419.2
2517.8
2552.8
2553.8
2508.6
2402.8
2252.8
2095.6
1951.8
1824.4
1665.2
1486.5
1308.7
1149.5
1016.0
883.5
808.5
761.2
728.3
705.7
681.1
639.0
604.0
589.7
588.6
579.4
627.7
622.5
439.7
339.0
259.9
196.2
99.6
0.0

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