

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: P940865

Luminaire Tested: **GALN-SB4A-850-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940865  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4A-850-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17039 lumens  
Efficiency: N/A  
Efficacy: 149.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

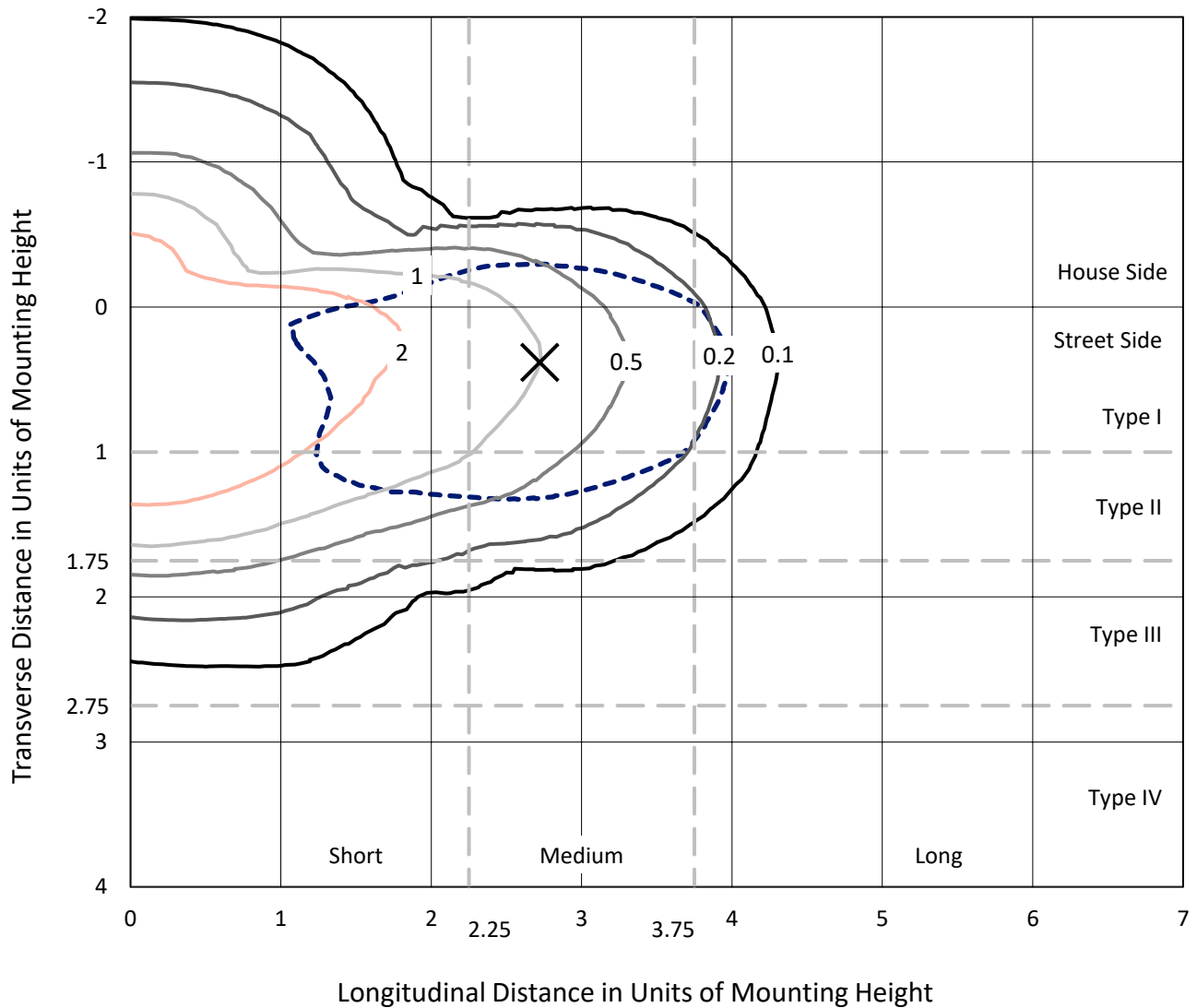
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

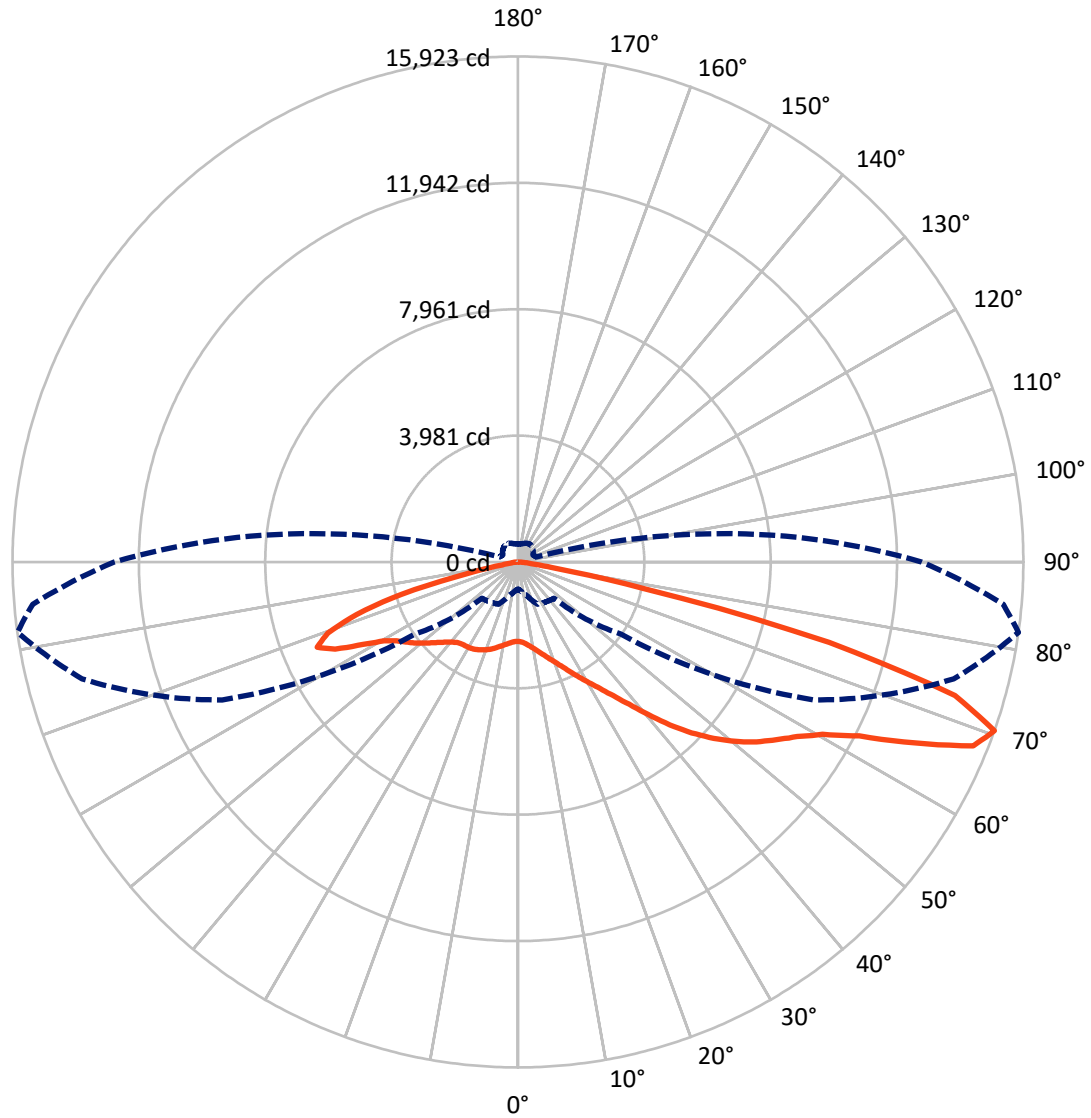
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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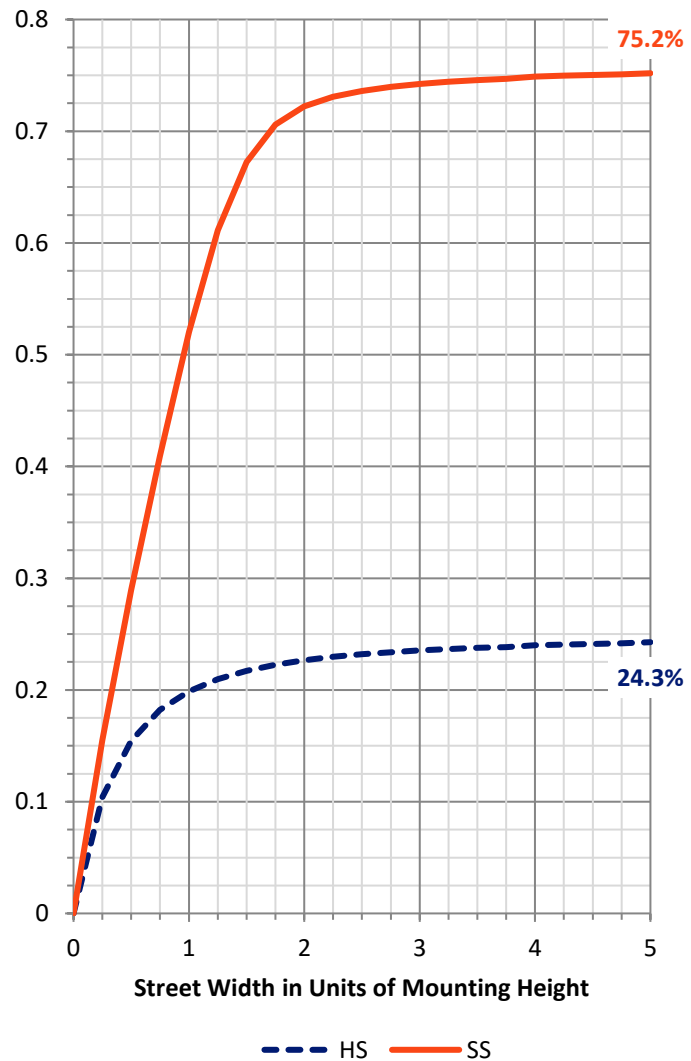
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4200.5	0.0	4200.5
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	12838.5	0.0	12838.5
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	17039.0	0.0	17039.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	235.9	1.4
10°-20°	677.7	4.0
20°-30°	1133.7	6.7
30°-40°	1771.1	10.4
40°-50°	2820.6	16.6
50°-60°	3925.3	23.0
60°-70°	4106.0	24.1
70°-80°	2146.0	12.6
80°-90°	222.8	1.3
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°	17039.0	100.0
0°-180°	17039.0	100.0

**Coefficient of Utilization**



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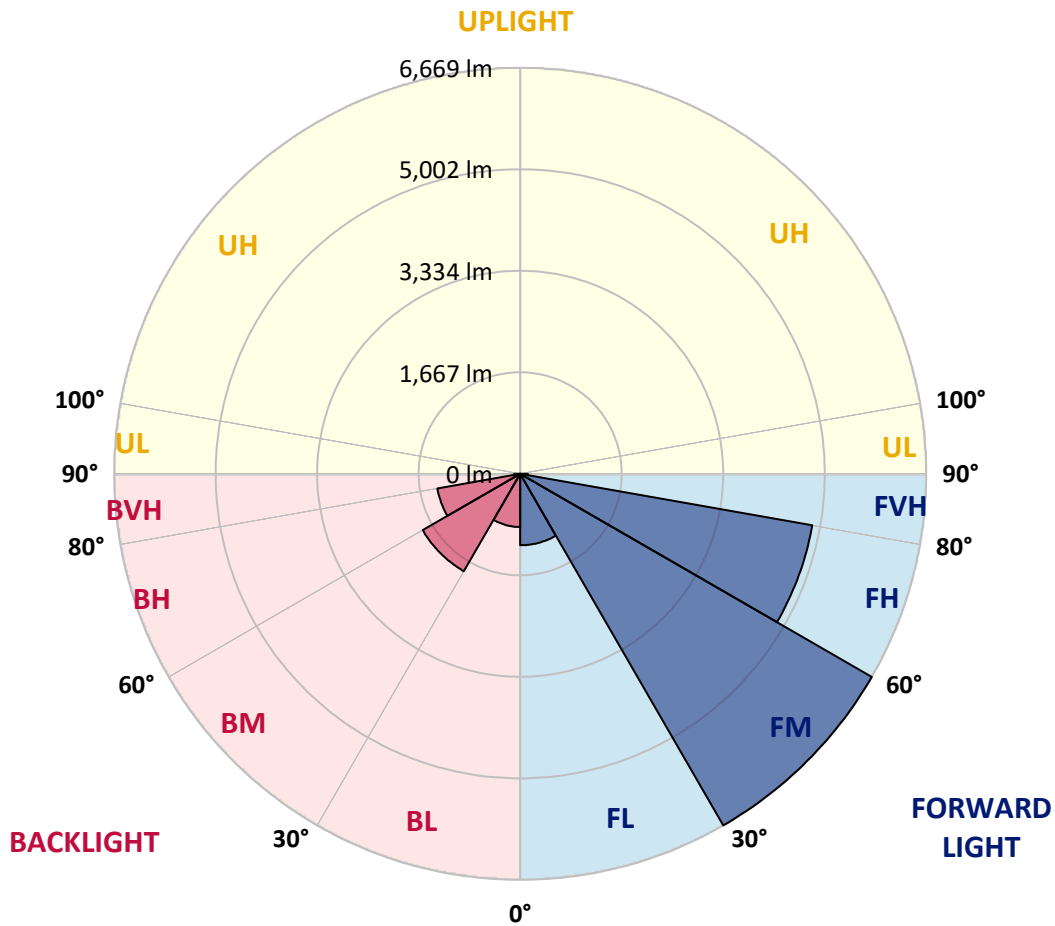
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1173.3	6.9			
FM (30°-60°)	6668.9	39.1			
FH (60°-80°)	4871.5	28.6			G2/5000
FVH (80°-90°)	124.7	0.7			G2/225
BL (0°-30°)	873.9	5.1	B2/1000		
BM (30°-60°)	1848.1	10.8	B2/2500		
BH (60°-80°)	1380.5	8.1	B3/2500		G3/2500
BVH (80°-90°)	98.1	0.6			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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	2498.1	2498.1	2498.1	2498.1	2498.1	2498.1	2498.1	2498.1	2498.1	2498.1
2.5°	2557.8	2572.3	2567.7	2563.2	2563.2	2556.9	2556.0	2547.0	2539.7	2528.0
5°	2590.4	2605.7	2603.9	2607.5	2619.3	2622.0	2624.7	2619.3	2604.8	2590.4
7.5°	2561.4	2578.6	2584.0	2605.7	2641.9	2674.4	2698.8	2708.8	2695.2	2674.4
10°	2463.8	2482.8	2501.7	2553.3	2617.5	2694.3	2759.4	2798.3	2795.6	2775.7
12.5°	2265.8	2285.7	2326.3	2426.7	2544.2	2679.9	2801.0	2882.4	2910.4	2896.0
15°	2107.5	2124.7	2155.5	2258.5	2411.3	2617.5	2816.4	2974.6	3046.0	3037.9
17.5°	2103.0	2110.3	2129.2	2178.1	2295.6	2519.8	2800.1	3065.0	3201.5	3200.6
20°	2182.6	2185.3	2196.1	2206.1	2273.0	2445.7	2758.5	3140.1	3376.0	3376.0
22.5°	2292.9	2291.1	2301.9	2292.9	2325.4	2439.4	2732.3	3206.1	3570.4	3584.9
25°	2458.3	2449.3	2446.6	2425.8	2432.1	2498.1	2761.2	3281.1	3801.0	3830.8
27.5°	2679.0	2664.5	2654.5	2606.6	2590.4	2619.3	2849.8	3371.5	4057.8	4109.3
30°	2966.5	2940.3	2925.8	2842.6	2783.8	2788.4	2983.7	3491.8	4326.3	4409.5
32.5°	3358.9	3318.2	3279.3	3142.8	3035.2	2999.9	3156.3	3658.1	4617.4	4750.3
35°	3798.3	3765.7	3724.1	3513.5	3348.0	3266.6	3389.6	3890.5	4958.3	5169.0
37.5°	4221.4	4193.4	4213.3	3929.4	3716.0	3597.6	3695.2	4202.4	5378.7	5689.7
40°	4659.0	4637.3	4640.0	4368.8	4120.2	3987.2	4065.9	4593.9	5860.6	6309.1
42.5°	5134.6	5118.3	5064.1	4823.6	4544.2	4420.3	4492.7	5046.0	6377.8	7014.3
45°	5667.1	5657.2	5606.6	5330.8	5010.7	4871.5	4969.1	5545.1	6897.7	7677.9
47.5°	6127.3	6135.5	6129.1	5896.8	5565.0	5360.6	5477.3	6065.9	7381.4	8301.8
50°	6348.8	6391.3	6453.7	6381.4	6175.3	5967.3	5989.9	6568.6	7842.5	8886.8
52.5°	6233.1	6313.6	6483.6	6599.3	6678.9	6635.5	6574.9	7067.6	8276.5	9414.8
55°	5801.8	5914.9	6197.0	6476.3	6882.3	7197.8	7277.4	7621.0	8699.6	9879.5
57.5°	5016.2	5199.7	5452.9	6017.9	6701.5	7470.0	8096.5	8388.6	9148.1	10375.9
60°	3669.0	3914.9	4229.6	5070.4	6068.6	7324.4	8793.6	9567.6	9785.5	11018.7
62.5°	2348.0	2499.9	2789.3	3581.3	4728.6	6578.5	9007.0	11041.3	10865.9	12072.9
65°	1607.6	1705.2	1970.1	2414.9	3056.9	4896.8	8435.6	12146.2	12582.0	13743.8
67.5°	1168.1	1242.3	1468.3	1858.0	1991.8	2897.8	6546.0	12095.5	14250.1	15465.3
70°	851.7	904.1	1094.0	1468.3	1532.5	1612.1	3965.5	10281.8	14213.9	15922.8
72.5°	631.1	667.3	794.7	1139.2	1240.5	1088.6	1962.9	7472.7	12214.0	14402.0
75°	456.6	483.7	577.7	871.6	992.7	829.1	979.2	4367.0	8519.7	10130.9
77.5°	349.0	369.8	431.3	638.3	794.7	622.0	607.6	2009.0	4039.7	4059.6
80°	280.3	293.8	327.3	449.4	609.4	465.6	396.0	811.0	1276.6	1080.4
82.5°	206.1	228.7	276.7	315.5	435.8	321.0	241.4	409.6	485.5	417.7
85°	117.5	132.9	167.3	226.0	278.5	196.2	138.3	181.7	226.0	185.3
87.5°	41.6	54.2	58.8	88.6	121.2	81.4	53.3	52.4	74.1	55.2
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°
2498.1	0°	2498.1	2498.1	2498.1	2498.1	2498.1	2498.1	2498.1	2498.1	2498.1	2498.1
2525.3	2.5°	2516.2	2511.7	2493.6	2469.2	2443.9	2419.5	2411.3	2394.2	2382.4	2376.1
2584.0	5°	2566.8	2552.4	2509.9	2455.6	2398.7	2337.2	2293.8	2254.0	2225.1	2198.0
2664.5	7.5°	2639.2	2613.9	2540.6	2445.7	2344.4	2242.3	2166.3	2108.4	2069.6	2044.3
2758.5	10°	2723.3	2684.4	2572.3	2430.3	2273.9	2127.4	2037.9	1988.2	1963.8	1950.2
2866.1	12.5°	2820.0	2764.9	2604.8	2395.1	2166.3	1999.0	1937.6	1923.1	1924.0	1924.9
3001.7	15°	2939.3	2862.5	2631.0	2318.2	2026.2	1900.5	1889.6	1913.2	1937.6	1949.3
3155.4	17.5°	3074.1	2965.6	2635.6	2191.6	1888.7	1837.2	1871.6	1922.2	1959.3	1975.5
3327.2	20°	3218.7	3070.4	2603.0	2012.6	1775.7	1785.7	1847.2	1912.2	1952.9	1973.7
3523.4	22.5°	3384.2	3182.6	2525.3	1824.5	1683.5	1729.6	1801.9	1865.2	1907.7	1928.5
3754.0	25°	3573.1	3308.2	2403.2	1666.3	1603.9	1666.3	1738.7	1791.1	1825.5	1844.4
4011.7	27.5°	3782.9	3439.3	2240.5	1540.6	1534.3	1601.2	1660.9	1701.6	1719.7	1734.1
4285.6	30°	3993.6	3558.7	2043.3	1445.7	1473.7	1537.0	1579.5	1597.6	1603.0	1605.7
4591.2	32.5°	4221.4	3661.8	1836.3	1367.1	1415.9	1474.6	1500.0	1508.1	1482.8	1465.6
4961.9	35°	4497.2	3772.1	1633.8	1304.7	1358.9	1409.5	1417.7	1410.5	1380.6	1345.4
5426.6	37.5°	4838.0	3909.5	1471.9	1260.4	1305.6	1339.0	1329.1	1327.3	1330.0	1288.4
5985.4	40°	5255.7	4088.5	1353.5	1226.0	1262.2	1269.4	1241.4	1256.8	1270.3	1207.0
6598.4	42.5°	5719.6	4304.6	1278.4	1202.5	1226.0	1208.8	1165.4	1182.6	1180.8	1097.6
7214.1	45°	6192.4	4539.7	1252.2	1185.3	1192.6	1158.2	1110.3	1114.8	1076.8	1001.8
7804.5	47.5°	6662.6	4791.9	1268.5	1170.9	1151.0	1112.1	1075.0	1055.1	999.1	943.0
8370.5	50°	7123.7	5056.8	1328.2	1141.9	1094.0	1071.4	1044.3	1009.0	949.3	901.4
8905.7	52.5°	7551.4	5323.6	1395.1	1094.0	1022.6	1036.1	1019.0	978.3	919.5	870.7
9412.1	55°	7956.4	5590.3	1421.3	1028.0	955.7	1005.4	995.5	920.4	849.9	810.1
9941.9	57.5°	8397.6	5911.2	1392.4	943.9	901.4	970.1	932.2	849.0	808.3	778.5
10631.7	60°	9008.8	6414.9	1330.0	839.9	849.9	917.7	852.6	818.2	773.9	740.5
11666.1	62.5°	10024.2	7354.3	1229.6	736.9	789.3	839.9	814.6	780.3	735.1	702.5
13434.6	65°	11525.0	8659.8	1040.7	656.4	721.5	764.0	773.9	739.6	692.6	658.2
14984.3	67.5°	12790.8	9479.0	787.5	589.5	651.9	702.5	730.5	697.1	647.4	613.9
15346.8	70°	12721.2	8884.0	601.3	523.5	590.4	641.9	678.1	651.9	598.5	566.9
13940.0	72.5°	11299.0	7432.0	486.4	456.6	528.0	578.6	622.0	602.2	547.9	517.2
10212.2	75°	8300.9	5275.6	388.8	388.8	450.3	512.6	560.6	547.9	498.2	476.5
4287.4	77.5°	3499.0	2213.3	304.7	322.8	374.3	440.3	500.0	504.5	461.1	488.2
1133.8	80°	930.4	610.3	232.4	254.1	293.8	363.5	434.9	433.1	386.1	360.8
421.3	82.5°	354.4	240.5	165.5	179.0	212.5	278.5	344.5	355.3	308.3	266.7
165.5	85°	136.5	103.1	102.2	107.6	123.9	184.4	260.4	269.4	232.4	197.1
46.1	87.5°	35.3	30.7	38.0	36.2	57.0	98.6	149.2	154.6	141.9	82.3
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>
2498.1
2383.3
2208.8
2049.7
1953.8
1926.7
1948.4
1979.2
1979.2
1933.9
1849.9
1739.6
1612.1
1471.0
1347.2
1291.1
1208.8
1096.7
1004.5
943.0
897.8
871.6
806.5
775.7
738.7
702.5
660.0
614.8
569.6
517.2
470.2
443.0
335.4
266.7
203.4
117.5
0.0

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