

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: P940862

Luminaire Tested: **GALN-SB4A-850-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940862
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-SB4A-850-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 5000K, 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: 17046 lumens
Efficiency: N/A
Efficacy: 149.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G3

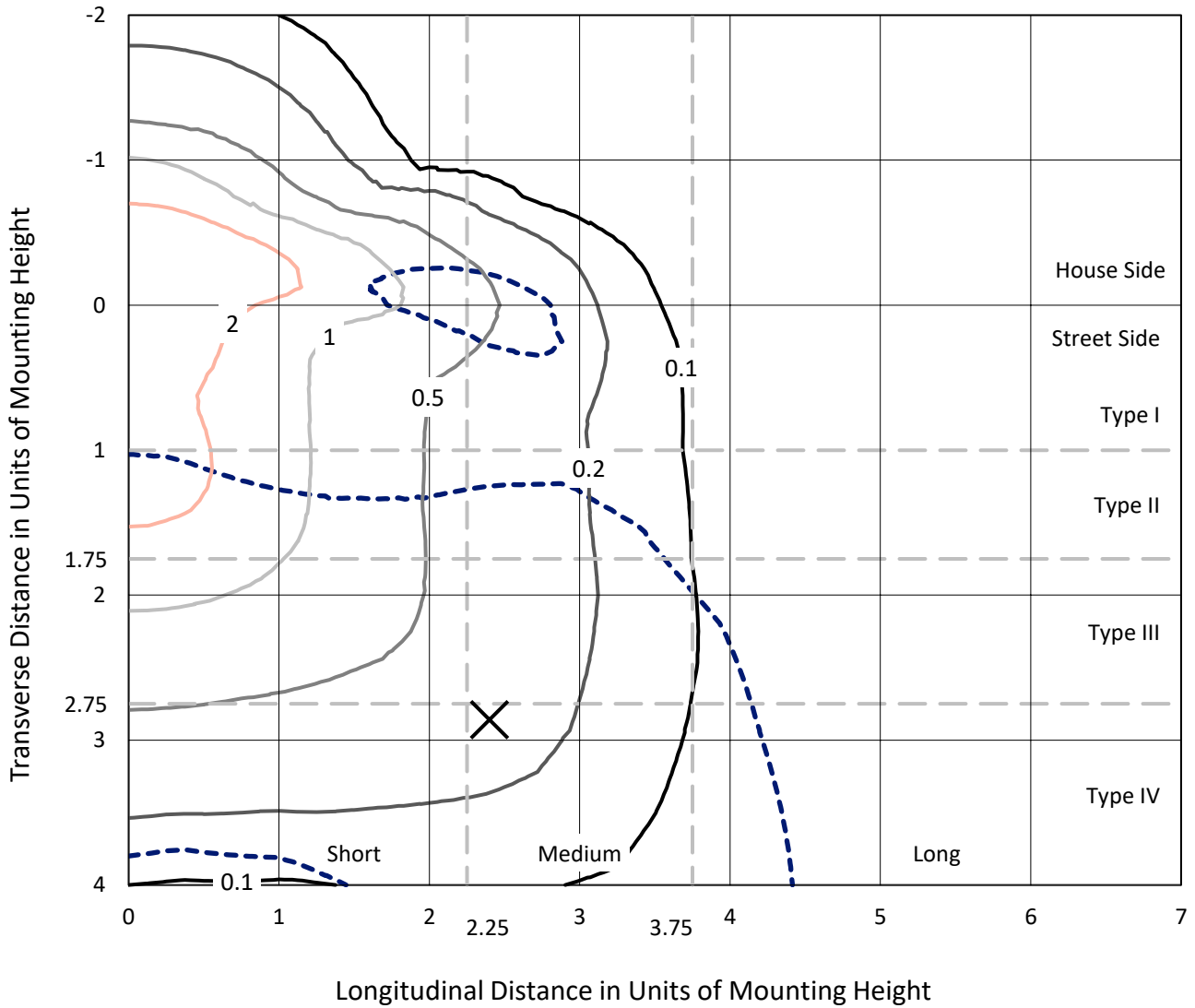
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

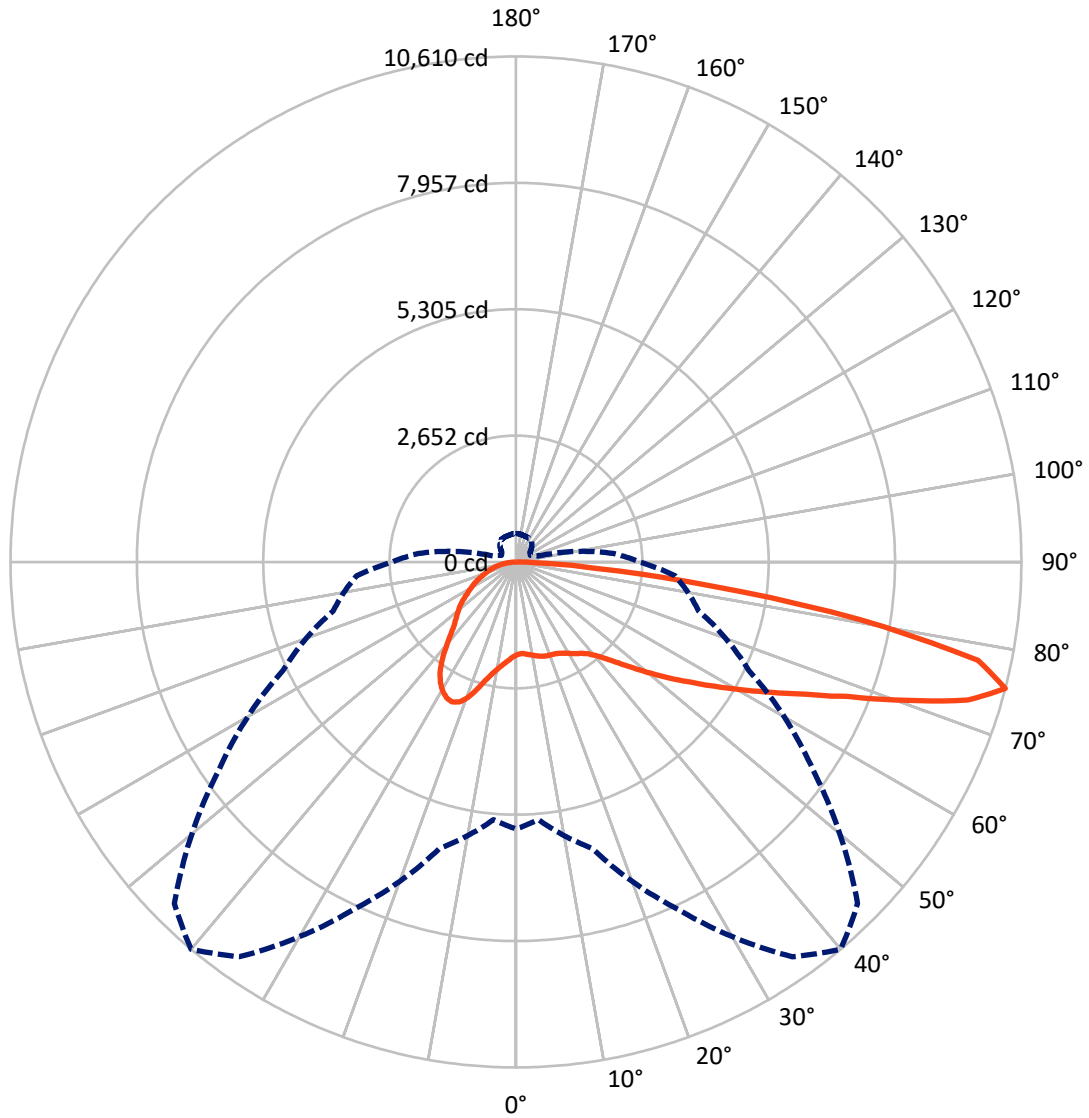
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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
House Side	Lumens	5281.4	0.0	5281.4
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	11764.6	0.0	11764.6
	% Fixture	69.0	0.0	69.0
Total	Lumens	17046.0	0.0	17046.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.6	1.1
10°-20°	653.3	3.8
20°-30°	1192.8	7.0
30°-40°	1691.7	9.9
40°-50°	2284.3	13.4
50°-60°	3073.0	18.0
60°-70°	3900.4	22.9
70°-80°	3539.9	20.8
80°-90°	516.0	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°	17046.0	100.0
0°-180°	17046.0	100.0

Coefficient of Utilization



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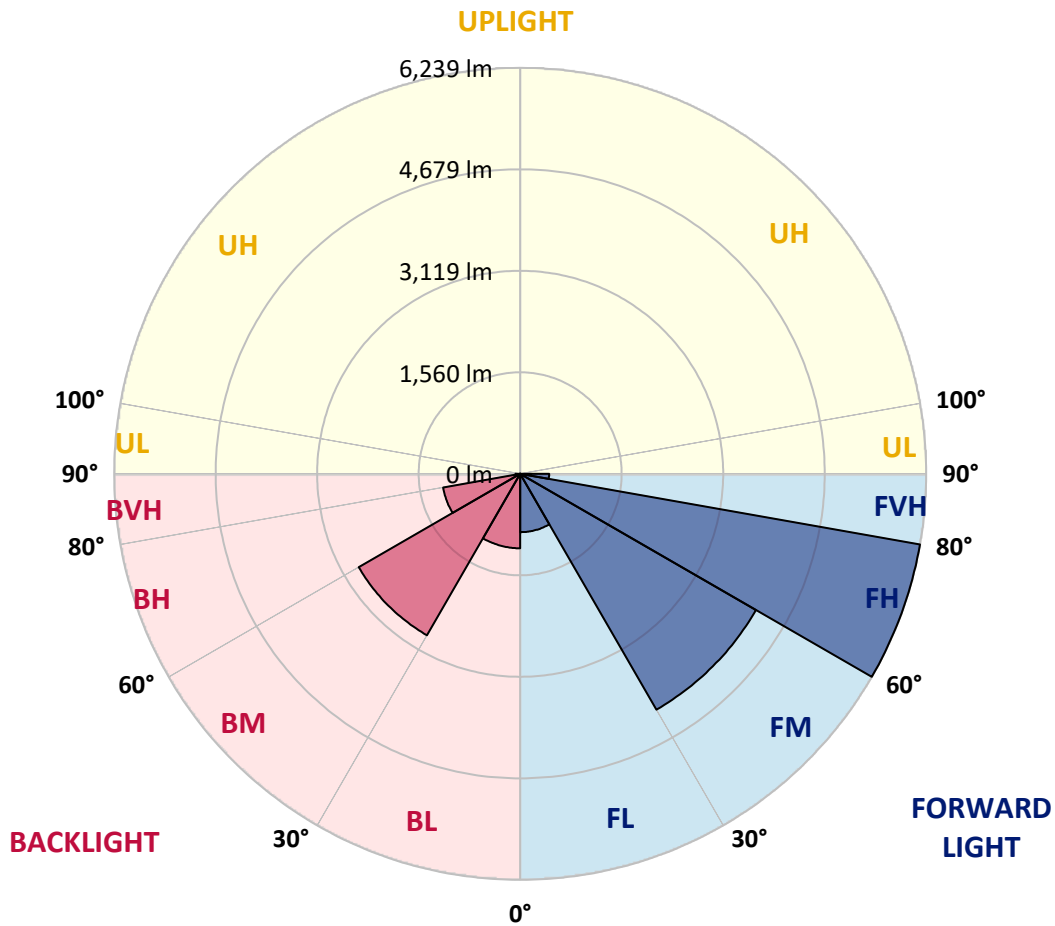
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	896.6	5.3			
FM (30°-60°)	4184.4	24.5			
FH (60°-80°)	6238.6	36.6			G3/7500
FVH (80°-90°)	445.0	2.6			G3/500
BL (0°-30°)	1144.0	6.7	B3/2500		
BM (30°-60°)	2864.7	16.8	B3/5000		
BH (60°-80°)	1201.7	7.0	B3/2500		G3/2500
BVH (80°-90°)	71.0	0.4			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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	1949.2	1949.2	1949.2	1949.2	1949.2	1949.2	1949.2	1949.2	1949.2	1949.2
2.5°	1919.4	1930.2	1927.5	1923.9	1923.9	1924.8	1923.9	1930.2	1936.6	1942.9
5°	1939.3	1950.1	1944.7	1940.2	1936.6	1935.7	1933.0	1932.1	1935.7	1943.8
7.5°	1978.2	1989.0	1980.9	1972.7	1965.5	1961.9	1958.3	1952.8	1950.1	1954.7
10°	2021.6	2032.4	2022.5	2008.0	1996.2	1991.7	1988.1	1982.7	1979.1	1981.8
12.5°	2065.0	2075.8	2062.2	2042.4	2027.0	2024.3	2019.8	2017.9	2017.0	2016.1
15°	2105.6	2114.7	2097.5	2074.0	2057.7	2053.2	2048.7	2051.4	2055.9	2061.3
17.5°	2137.3	2146.3	2121.0	2090.3	2074.9	2073.1	2070.4	2079.4	2092.1	2105.6
20°	2166.2	2175.3	2142.7	2101.1	2083.0	2083.0	2083.9	2102.9	2121.0	2140.9
22.5°	2206.9	2214.1	2174.4	2117.4	2091.2	2093.0	2100.2	2119.2	2141.8	2168.9
25°	2267.5	2272.9	2224.1	2148.1	2118.3	2123.7	2130.1	2139.1	2160.8	2192.4
27.5°	2365.1	2369.6	2305.4	2202.4	2157.2	2166.2	2175.3	2168.9	2178.9	2206.0
30°	2502.5	2505.3	2423.9	2287.4	2223.2	2227.7	2229.5	2203.3	2184.3	2206.0
32.5°	2665.3	2664.4	2567.6	2390.4	2298.2	2293.7	2278.3	2226.8	2182.5	2201.5
35°	2917.5	2907.6	2782.8	2535.1	2383.2	2355.2	2319.0	2253.0	2191.5	2197.0
37.5°	3335.2	3304.5	3131.8	2772.0	2509.8	2438.3	2385.0	2295.5	2211.4	2195.1
40°	3806.2	3767.4	3577.5	3096.5	2699.6	2584.8	2498.9	2356.1	2244.0	2203.3
42.5°	4365.0	4309.8	4105.5	3479.0	2940.1	2773.8	2644.5	2432.9	2291.9	2229.5
45°	5051.2	4978.0	4688.6	3910.2	3243.0	3021.5	2848.8	2549.6	2365.1	2280.1
47.5°	5744.6	5762.7	5351.3	4403.9	3606.4	3327.1	3104.7	2724.9	2471.8	2361.5
50°	6481.5	6494.1	6010.4	4950.8	4018.7	3672.4	3392.2	2921.1	2620.1	2477.2
52.5°	7056.5	7058.3	6608.9	5523.1	4448.2	4052.2	3702.3	3145.4	2791.9	2630.9
55°	7416.3	7411.8	7028.4	6064.7	4941.8	4450.9	4045.8	3400.3	3001.6	2811.7
57.5°	7677.6	7664.0	7317.8	6530.3	5468.0	4921.9	4434.6	3689.6	3249.3	3026.9
60°	7777.0	7768.9	7513.9	6932.6	6021.3	5442.7	4883.0	4013.3	3530.5	3281.0
62.5°	7815.0	7830.4	7706.5	7322.3	6613.5	6019.5	5375.8	4400.2	3846.9	3568.5
65°	7948.8	7976.8	7951.5	7832.2	7282.5	6694.8	6029.4	4860.4	4192.3	3876.8
67.5°	8213.7	8241.7	8252.6	8442.5	8099.8	7536.6	6844.9	5433.6	4596.4	4196.8
70°	8207.4	8199.3	8390.9	8928.0	9123.2	8701.9	7944.3	6138.8	5078.3	4462.6
72.5°	7470.6	7405.5	7858.4	8922.5	9974.9	9918.8	9286.9	7048.3	5494.2	4495.2
75°	5604.5	5430.9	6231.0	8041.0	10116.8	10609.6	10140.4	7612.5	5395.7	3971.7
77.5°	2396.8	2222.3	3165.2	5952.6	9054.5	9917.9	9357.4	6641.5	4307.1	2626.4
80°	627.4	626.5	956.5	2698.7	6157.8	7324.1	6425.4	4289.0	2461.0	938.5
82.5°	259.5	253.1	351.7	1049.7	3008.8	4110.0	3354.2	1913.1	888.7	254.1
85°	96.7	95.8	170.9	362.5	1061.4	1695.2	1226.9	489.1	221.5	123.9
87.5°	27.1	26.2	37.1	125.7	258.6	392.4	209.8	80.5	62.4	48.8
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°
1949.2	0°	1949.2	1949.2	1949.2	1949.2	1949.2	1949.2	1949.2	1949.2	1949.2	1949.2
1952.8	2.5°	1955.6	1960.1	1968.2	1974.5	1982.7	1991.7	2004.4	2012.5	2020.7	2026.1
1957.4	5°	1963.7	1973.6	1994.4	2015.2	2039.6	2062.2	2088.5	2107.4	2122.8	2127.3
1973.6	7.5°	1981.8	1998.1	2033.3	2068.6	2107.4	2144.5	2182.5	2215.0	2241.3	2251.2
2002.6	10°	2013.4	2035.1	2084.8	2134.6	2186.1	2243.1	2291.9	2338.9	2376.0	2391.3
2036.9	12.5°	2053.2	2080.3	2145.4	2214.1	2285.6	2364.2	2427.5	2485.4	2531.5	2552.3
2084.8	15°	2104.7	2140.0	2223.2	2315.4	2420.3	2529.7	2610.1	2674.3	2725.9	2751.2
2134.6	17.5°	2160.8	2207.8	2312.7	2451.9	2602.0	2745.7	2839.8	2886.8	2940.1	2964.5
2180.7	20°	2215.0	2272.9	2423.0	2625.5	2825.3	2978.1	3054.0	3066.7	3070.3	3073.0
2224.1	22.5°	2271.1	2348.8	2561.3	2844.3	3058.6	3164.3	3175.2	3120.9	3045.0	3009.7
2266.6	25°	2332.6	2435.6	2742.1	3085.7	3259.3	3271.9	3188.7	3056.8	2913.0	2847.0
2300.9	27.5°	2392.2	2536.0	2959.1	3316.2	3403.9	3292.7	3113.7	2926.6	2753.0	2683.4
2325.3	30°	2451.9	2650.8	3198.7	3517.8	3469.9	3241.2	2995.3	2786.4	2611.9	2538.7
2347.0	32.5°	2512.5	2784.6	3474.4	3663.4	3458.2	3131.8	2847.9	2629.1	2475.4	2398.6
2366.0	35°	2581.2	2949.2	3735.7	3743.0	3379.5	2970.9	2653.5	2441.1	2307.3	2245.8
2388.6	37.5°	2670.7	3158.0	3966.3	3762.9	3242.1	2734.9	2412.1	2218.7	2108.4	2080.3
2422.1	40°	2781.9	3409.3	4142.6	3731.2	3038.7	2448.3	2148.1	1993.5	1931.2	1937.5
2467.3	42.5°	2926.6	3690.5	4266.4	3649.8	2755.7	2152.7	1916.7	1848.0	1877.8	1903.1
2535.1	45°	3114.6	3982.5	4343.3	3511.5	2435.6	1902.2	1780.2	1796.4	1819.0	1821.8
2644.5	47.5°	3355.1	4278.2	4393.9	3302.7	2109.3	1725.9	1693.4	1697.0	1692.5	1673.5
2808.1	50°	3655.3	4565.7	4439.1	3026.0	1831.7	1615.6	1572.2	1559.6	1497.2	1435.7
3026.0	52.5°	3997.0	4829.7	4458.1	2682.5	1615.6	1523.4	1452.9	1373.3	1256.7	1237.7
3300.0	55°	4376.7	5073.8	4409.3	2260.2	1433.9	1405.0	1298.3	1202.4	1189.8	1173.5
3660.7	57.5°	4830.6	5336.9	4309.8	1789.2	1247.7	1266.6	1162.7	1173.5	1150.9	1125.6
4124.5	60°	5326.9	5609.0	4135.3	1359.8	1055.1	1094.0	1127.4	1126.5	1120.2	1099.4
4613.6	62.5°	5773.6	5788.0	3791.8	1041.5	886.0	960.2	1051.5	1050.6	1045.1	1033.4
5124.4	65°	6039.4	5760.9	3218.6	820.0	746.8	849.9	948.4	955.6	956.5	955.6
5508.7	67.5°	5992.4	5443.6	2432.0	652.8	632.0	737.7	846.2	856.2	863.4	865.2
5557.5	70°	5460.7	4746.5	1585.8	520.8	529.8	639.2	749.5	759.4	765.8	773.0
4822.5	72.5°	4256.5	3489.8	907.7	421.3	440.3	554.2	653.7	665.4	669.0	682.6
3356.0	75°	2593.9	2052.3	490.0	331.8	361.6	473.7	558.7	572.3	578.6	594.9
1648.2	77.5°	1233.2	888.7	279.4	258.6	291.1	387.0	471.9	487.3	470.1	479.2
454.8	80°	416.8	330.0	176.3	197.1	222.4	302.0	377.9	393.3	357.1	355.3
151.0	82.5°	145.6	133.8	112.1	131.1	143.8	216.1	285.7	305.6	265.8	264.9
67.8	85°	57.0	54.2	62.4	71.4	85.9	132.9	188.1	198.0	163.6	132.0
19.9	87.5°	11.8	12.7	15.4	16.3	26.2	46.1	67.8	83.2	66.0	56.1
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>
1949.2
2022.5
2129.1
2252.1
2392.2
2552.3
2749.4
2963.6
3080.3
3019.7
2856.9
2691.5
2546.8
2408.5
2259.3
2100.2
1959.2
1926.6
1839.8
1687.9
1443.8
1244.0
1176.2
1121.1
1092.1
1028.9
955.6
867.0
776.6
688.0
596.7
471.9
351.7
252.2
130.2
51.5
0.0

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