

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: P947293

Luminaire Tested: **GALN-SB2C-940-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947293
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2C-940-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10787 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

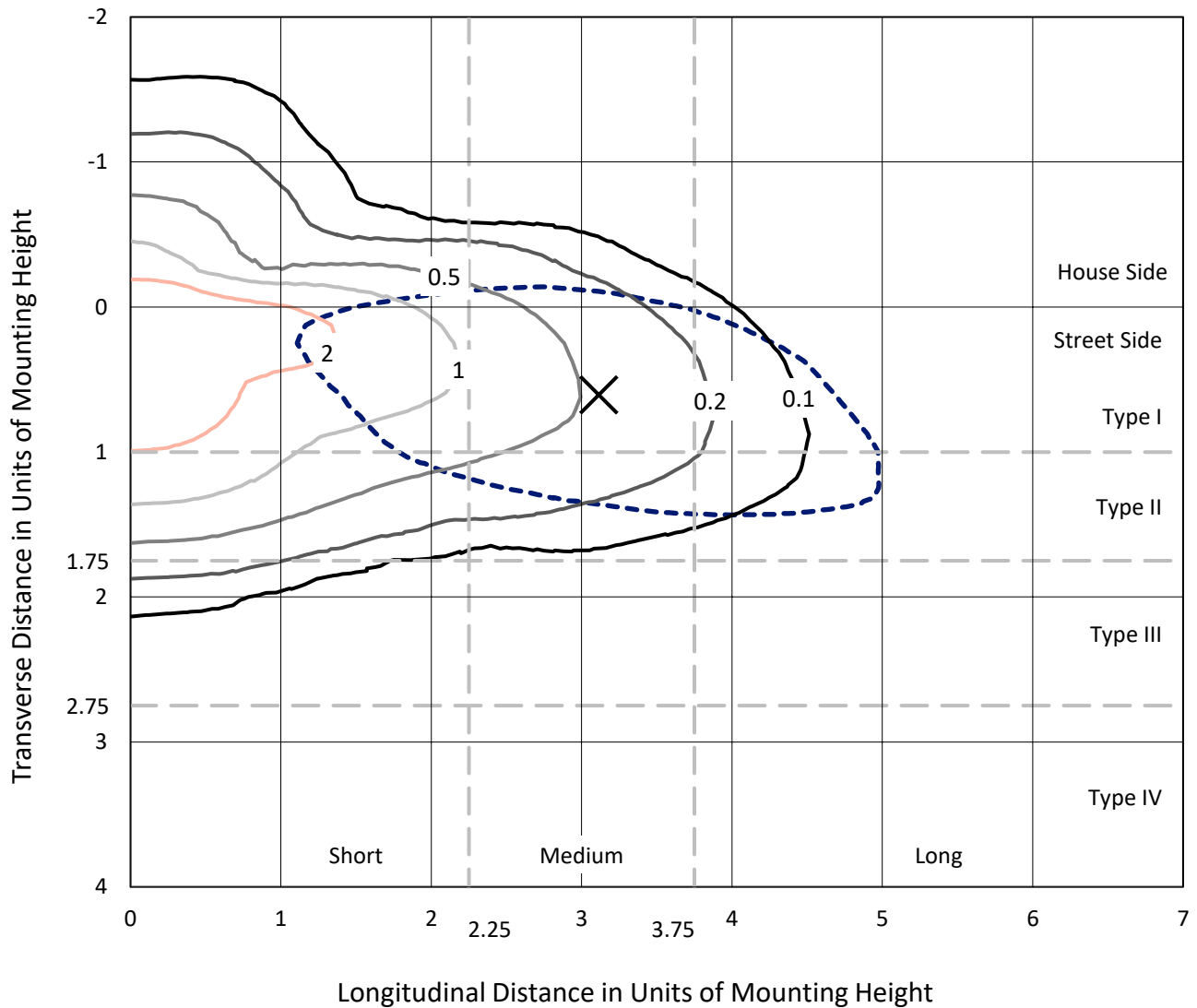
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

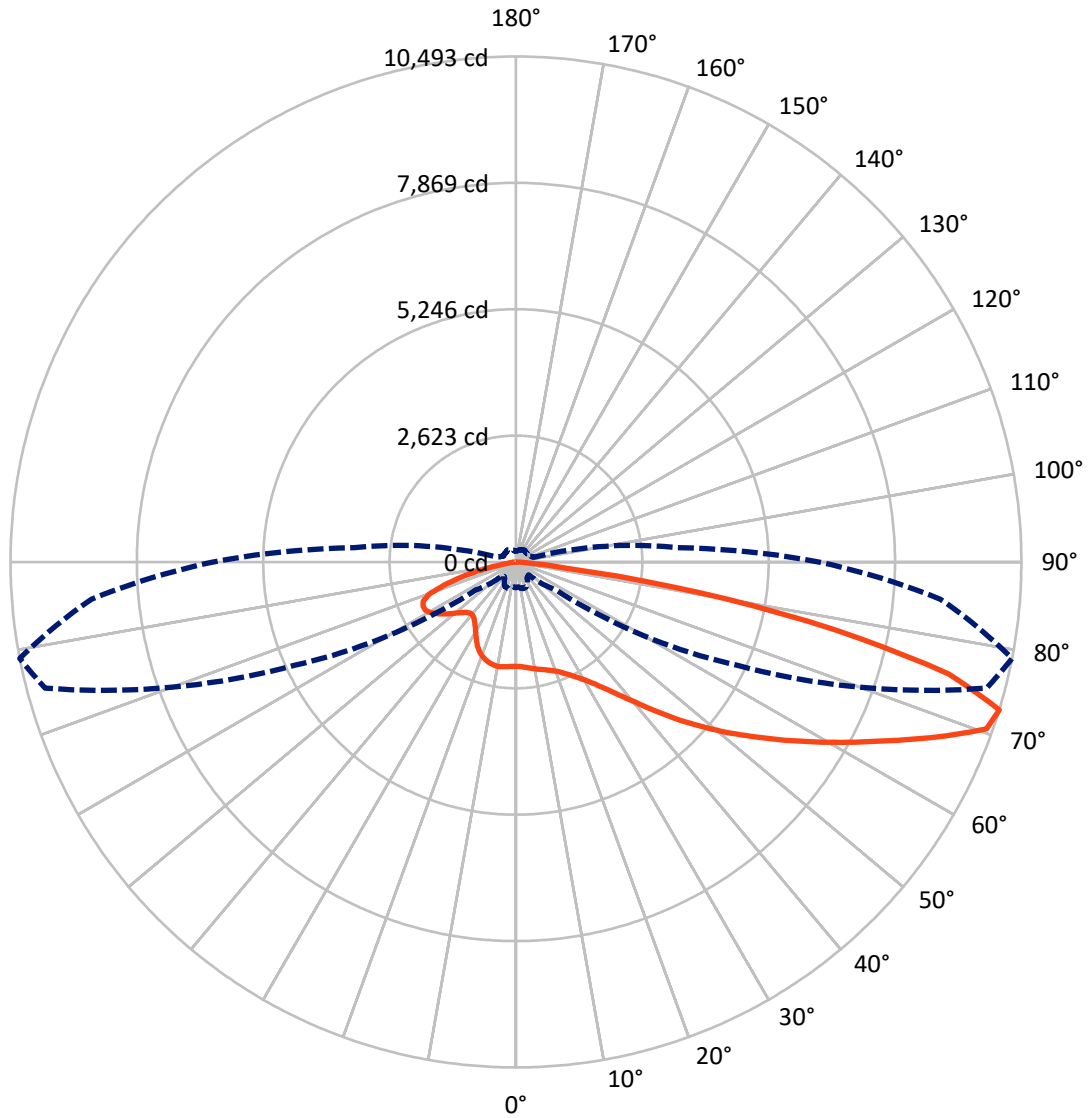
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2373.7	0.0	2373.7
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	8413.3	0.0	8413.3
	% Fixture	78.0	0.0	78.0
Total	Lumens	10787.0	0.0	10787.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.6	1.8
10°-20°	513.9	4.8
20°-30°	829.2	7.7
30°-40°	1244.5	11.5
40°-50°	1765.4	16.4
50°-60°	2229.5	20.7
60°-70°	2264.4	21.0
70°-80°	1543.3	14.3
80°-90°	200.2	1.9
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°	10787.0	100.0
0°-180°	10787.0	100.0

Coefficient of Utilization



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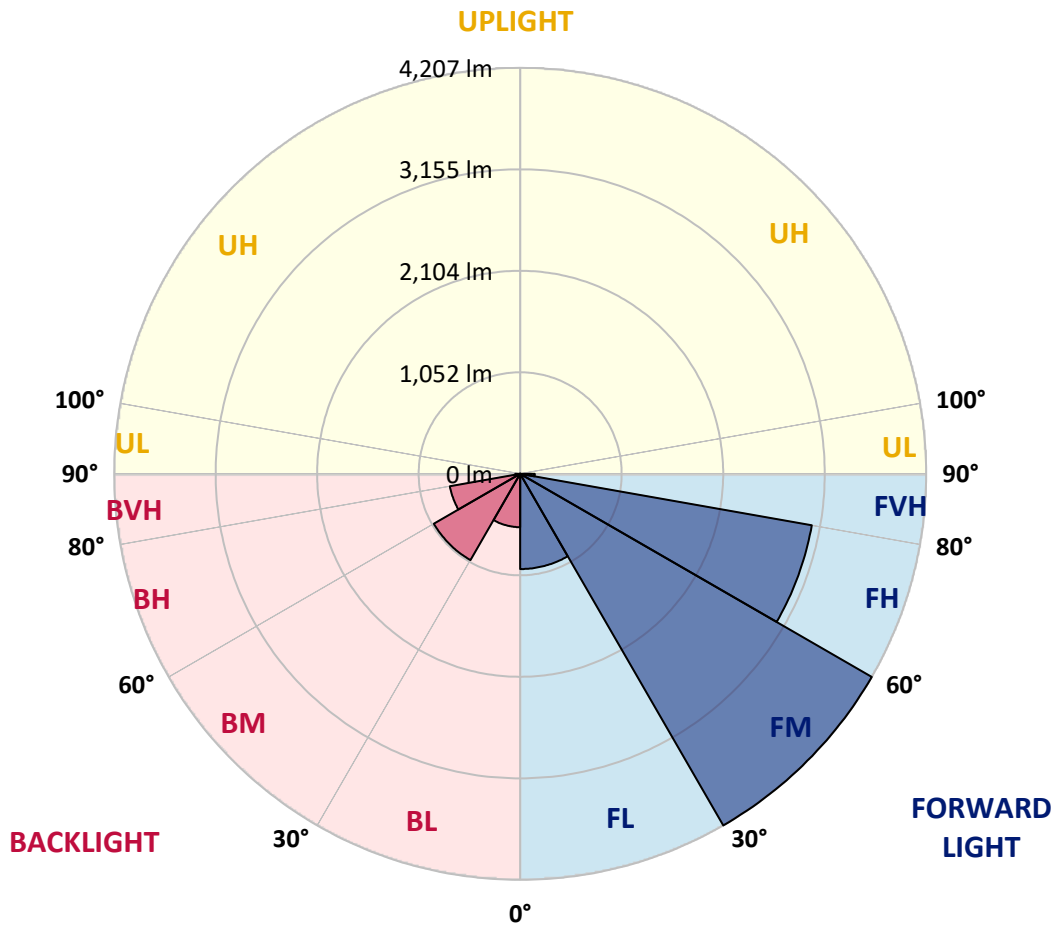
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	986.8	9.1			
FM (30°-60°)	4207.2	39.0			
FH (60°-80°)	3068.5	28.4			G2/5000
FVH (80°-90°)	150.8	1.4			G2/225
BL (0°-30°)	552.9	5.1	B2/1000		
BM (30°-60°)	1032.3	9.6	B2/2500		
BH (60°-80°)	739.1	6.9	B2/1000		G2/1000
BVH (80°-90°)	49.4	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	2165.4	2165.4	2165.4	2165.4	2165.4	2165.4	2165.4	2165.4	2165.4	2165.4
2.5°	2166.5	2156.3	2162.5	2160.3	2163.1	2166.5	2167.7	2169.4	2175.1	2174.5
5°	2162.0	2151.7	2160.3	2157.4	2164.8	2172.8	2179.7	2185.9	2195.1	2199.1
7.5°	2152.3	2145.4	2154.0	2162.5	2176.2	2188.2	2197.9	2212.2	2225.3	2227.6
10°	2095.8	2090.6	2110.6	2132.9	2170.5	2203.0	2224.2	2240.7	2255.0	2257.3
12.5°	2037.0	2030.7	2053.0	2083.2	2144.3	2203.0	2247.6	2269.2	2281.8	2289.2
15°	2027.3	2022.2	2034.7	2061.0	2111.8	2187.6	2263.5	2303.5	2314.3	2322.9
17.5°	2074.1	2064.4	2069.5	2078.7	2108.3	2173.4	2276.1	2342.3	2358.8	2367.9
20°	2182.5	2168.8	2160.8	2142.6	2137.4	2175.7	2274.9	2389.1	2410.7	2422.2
22.5°	2326.9	2317.7	2300.6	2254.4	2204.2	2203.6	2296.6	2449.0	2489.5	2500.3
25°	2501.5	2487.8	2466.1	2403.3	2306.9	2259.0	2333.1	2525.4	2593.3	2596.2
27.5°	2702.3	2681.8	2652.1	2569.4	2439.3	2345.7	2389.1	2613.3	2712.6	2711.4
30°	2914.0	2893.5	2862.1	2761.7	2597.9	2462.7	2466.7	2708.0	2854.1	2847.8
32.5°	3068.6	3053.2	3046.9	2969.3	2780.5	2600.7	2555.7	2813.0	3028.7	3023.0
35°	3187.3	3167.3	3174.8	3135.4	2979.6	2755.4	2664.7	2938.0	3240.9	3240.4
37.5°	3304.9	3287.2	3293.4	3267.2	3163.9	2951.7	2797.6	3090.9	3504.0	3516.5
40°	3412.1	3393.3	3418.4	3393.9	3307.1	3160.5	2948.8	3263.8	3808.7	3832.7
42.5°	3476.6	3461.8	3503.4	3504.0	3431.5	3336.8	3114.8	3454.3	4161.3	4214.9
45°	3498.9	3493.7	3556.5	3569.6	3541.6	3438.9	3264.3	3662.0	4541.3	4637.2
47.5°	3474.9	3465.2	3551.9	3600.4	3622.7	3486.9	3388.2	3886.9	4929.3	5069.7
50°	3353.9	3335.1	3464.0	3566.2	3645.5	3518.3	3513.1	4146.5	5370.4	5523.9
52.5°	3136.5	3122.3	3268.9	3446.4	3595.3	3533.7	3653.5	4430.1	5789.2	5987.8
55°	2858.7	2839.8	3001.3	3233.0	3470.3	3528.5	3793.9	4747.3	6283.3	6484.8
57.5°	2418.2	2380.5	2584.8	2858.7	3266.6	3522.2	3939.9	5062.8	6785.5	7026.8
60°	1775.7	1719.8	1970.2	2294.9	2868.4	3461.2	4120.8	5416.6	7388.0	7605.4
62.5°	1033.9	1001.4	1165.1	1468.1	2162.0	3101.7	4222.4	5828.0	7980.3	8208.5
65°	802.8	793.7	808.0	831.3	1203.4	2322.3	3909.1	6229.1	8733.4	8893.2
67.5°	734.3	727.5	733.8	689.8	610.5	1293.5	3092.6	6330.7	9540.3	9637.3
70°	652.8	644.8	665.3	627.6	480.4	588.3	1998.2	5962.1	10182.2	10364.2
72.5°	531.8	522.7	570.6	553.5	404.5	377.7	1003.7	5086.2	10114.8	10492.6
75°	408.5	403.4	460.5	474.7	329.8	297.3	481.6	3780.7	8901.2	9281.8
77.5°	317.2	313.3	342.4	394.3	265.9	230.5	296.1	2398.2	6707.9	6774.6
80°	237.9	226.5	253.3	305.3	207.1	168.3	200.8	1398.5	4240.1	3843.5
82.5°	148.9	143.2	165.5	203.7	146.1	115.8	130.7	772.6	1699.2	1000.8
85°	85.0	82.7	90.2	116.4	79.3	66.8	74.7	341.2	310.4	213.4
87.5°	34.2	33.1	41.1	51.9	29.1	24.5	26.2	82.2	68.5	63.3
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°
2165.4	0°	2165.4	2165.4	2165.4	2165.4	2165.4	2165.4	2165.4	2165.4	2165.4	2165.4
2173.9	2.5°	2171.7	2171.7	2163.7	2151.1	2136.9	2127.7	2112.9	2108.9	2093.5	2088.9
2193.3	5°	2197.9	2193.3	2168.8	2133.4	2084.9	2040.4	1991.4	1960.5	1917.2	1901.8
2231.6	7.5°	2231.0	2218.5	2176.2	2098.6	1997.1	1897.2	1793.4	1714.6	1639.3	1612.5
2263.0	10°	2261.2	2243.6	2171.7	2035.9	1860.1	1687.2	1521.8	1405.9	1318.1	1282.1
2297.8	12.5°	2291.5	2259.0	2141.4	1931.4	1665.6	1431.0	1254.7	1164.6	1110.4	1067.0
2326.3	15°	2320.0	2274.4	2094.6	1791.7	1452.2	1214.2	1084.1	1012.2	968.9	940.3
2367.9	17.5°	2353.1	2287.5	2024.5	1614.2	1249.0	1064.1	958.0	914.7	906.1	902.7
2425.0	20°	2399.3	2299.5	1932.0	1415.6	1099.5	944.3	889.5	885.6	885.0	883.3
2493.5	22.5°	2449.0	2313.7	1809.9	1235.3	972.3	869.6	859.9	851.9	846.8	846.2
2576.2	25°	2507.7	2318.3	1657.0	1087.5	863.9	834.2	822.8	810.8	807.4	807.4
2670.4	27.5°	2564.8	2302.9	1479.0	959.2	802.8	801.7	786.8	782.8	782.3	784.0
2777.6	30°	2621.9	2273.8	1302.1	840.5	767.4	767.4	762.3	765.2	767.4	773.1
2924.8	32.5°	2698.9	2243.0	1154.3	752.6	736.6	730.9	736.1	741.8	744.0	751.5
3118.3	35°	2811.9	2221.3	1036.8	704.7	704.7	697.3	700.1	699.0	693.8	690.4
3352.2	37.5°	2961.4	2220.2	939.8	682.4	677.9	676.7	677.3	669.9	649.9	625.9
3635.2	40°	3141.1	2251.0	865.0	667.0	663.6	670.4	667.0	647.0	592.3	550.6
3983.3	42.5°	3382.5	2338.8	817.1	648.2	658.5	667.0	653.3	584.3	547.2	519.2
4379.8	45°	3666.6	2481.5	792.5	628.2	648.8	659.0	592.8	562.6	532.9	499.3
4812.4	47.5°	3988.4	2661.2	786.8	609.4	627.1	633.4	567.2	553.5	519.8	483.3
5247.1	50°	4338.8	2874.1	802.2	587.1	595.7	574.0	558.6	546.1	511.2	475.3
5692.8	52.5°	4701.1	3108.6	833.1	556.9	564.3	540.3	555.2	544.3	506.1	457.6
6153.2	55°	5057.1	3344.8	862.7	521.5	532.4	510.1	545.5	537.5	482.7	427.9
6644.5	57.5°	5418.9	3579.9	891.8	490.1	501.5	481.0	530.1	519.2	456.5	400.6
7180.9	60°	5794.9	3808.1	905.5	459.9	467.9	454.2	506.7	487.9	426.8	372.6
7708.1	62.5°	6147.0	3998.1	883.3	429.7	434.8	429.1	475.9	450.8	397.1	341.2
8257.6	65°	6500.2	4111.1	814.8	400.0	401.1	398.3	432.5	410.8	362.3	313.8
8738.6	67.5°	6820.3	4174.4	705.8	368.0	365.2	364.0	392.0	367.5	328.7	286.4
9104.3	70°	6888.2	4013.5	539.2	330.4	330.4	327.5	347.5	322.4	291.6	257.3
8842.4	72.5°	6291.3	3376.2	382.9	287.6	292.1	286.4	303.0	281.9	253.9	231.1
7620.8	75°	5073.1	2475.8	278.4	243.6	251.6	241.9	257.3	242.5	218.5	218.0
5251.7	77.5°	3485.7	1530.9	202.0	200.8	206.6	194.0	211.7	203.7	182.0	172.3
2285.8	80°	1487.5	610.5	147.2	155.2	155.2	143.8	164.3	166.6	147.8	143.2
441.1	82.5°	296.1	173.5	103.3	106.7	100.4	97.0	116.4	129.0	178.0	198.0
132.9	85°	89.0	63.9	62.2	58.2	51.4	51.9	68.5	129.5	159.8	91.3
43.9	87.5°	24.5	16.0	16.5	13.1	10.8	14.3	23.4	98.1	53.6	22.8
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>
2165.4
2096.3
1913.2
1615.9
1290.1
1081.3
945.5
905.0
889.0
852.5
810.8
788.6
777.1
757.7
698.4
626.5
549.5
518.1
497.0
480.4
471.3
454.2
425.1
399.4
370.9
340.6
310.4
283.0
256.2
224.2
196.3
161.5
143.2
198.6
78.7
19.4
0.0

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