

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: P945991

Luminaire Tested: **GALN-SB1D-740-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945991
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-SB1D-740-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10704 lumens
Efficiency: N/A
Efficacy: 134.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

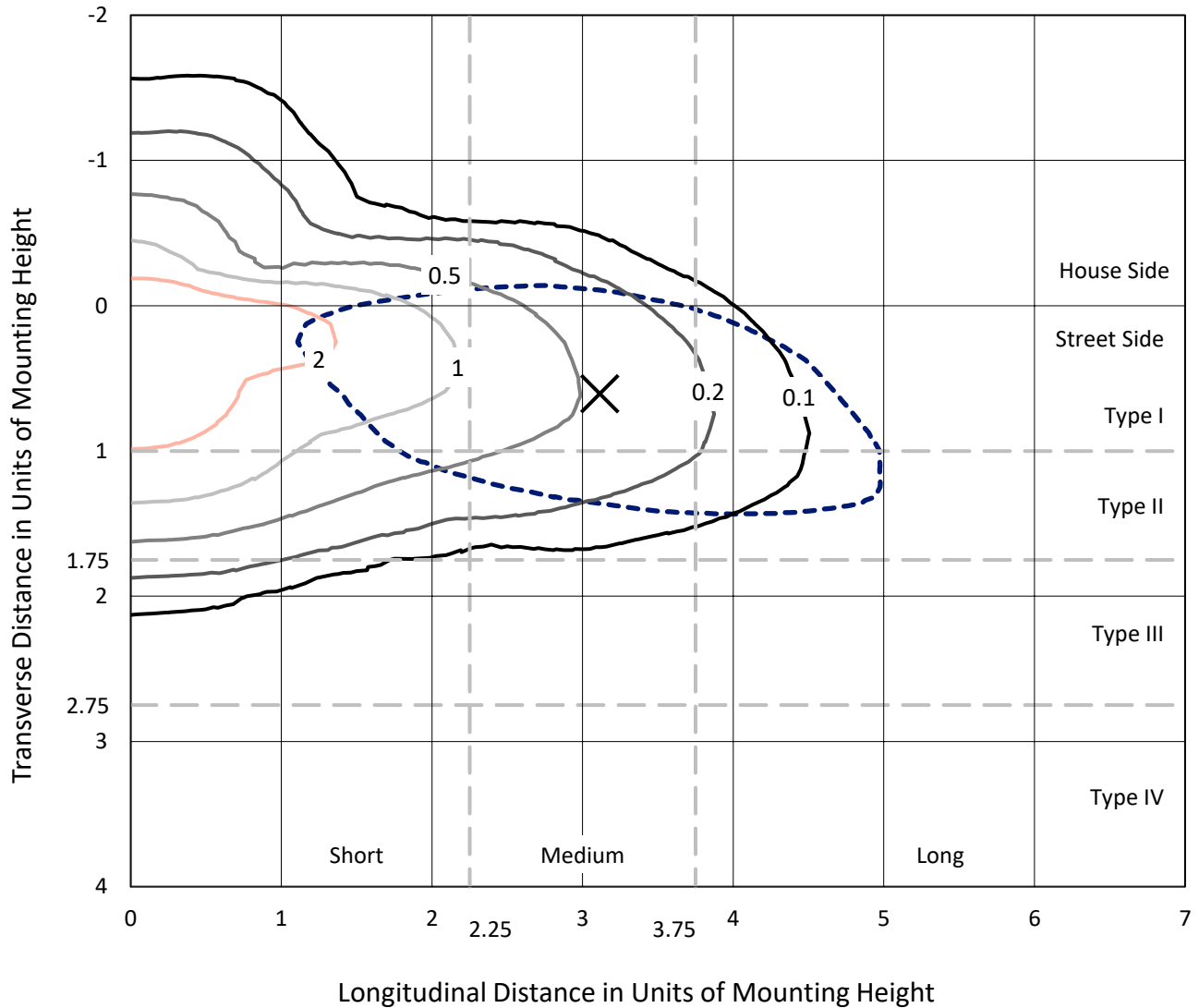
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

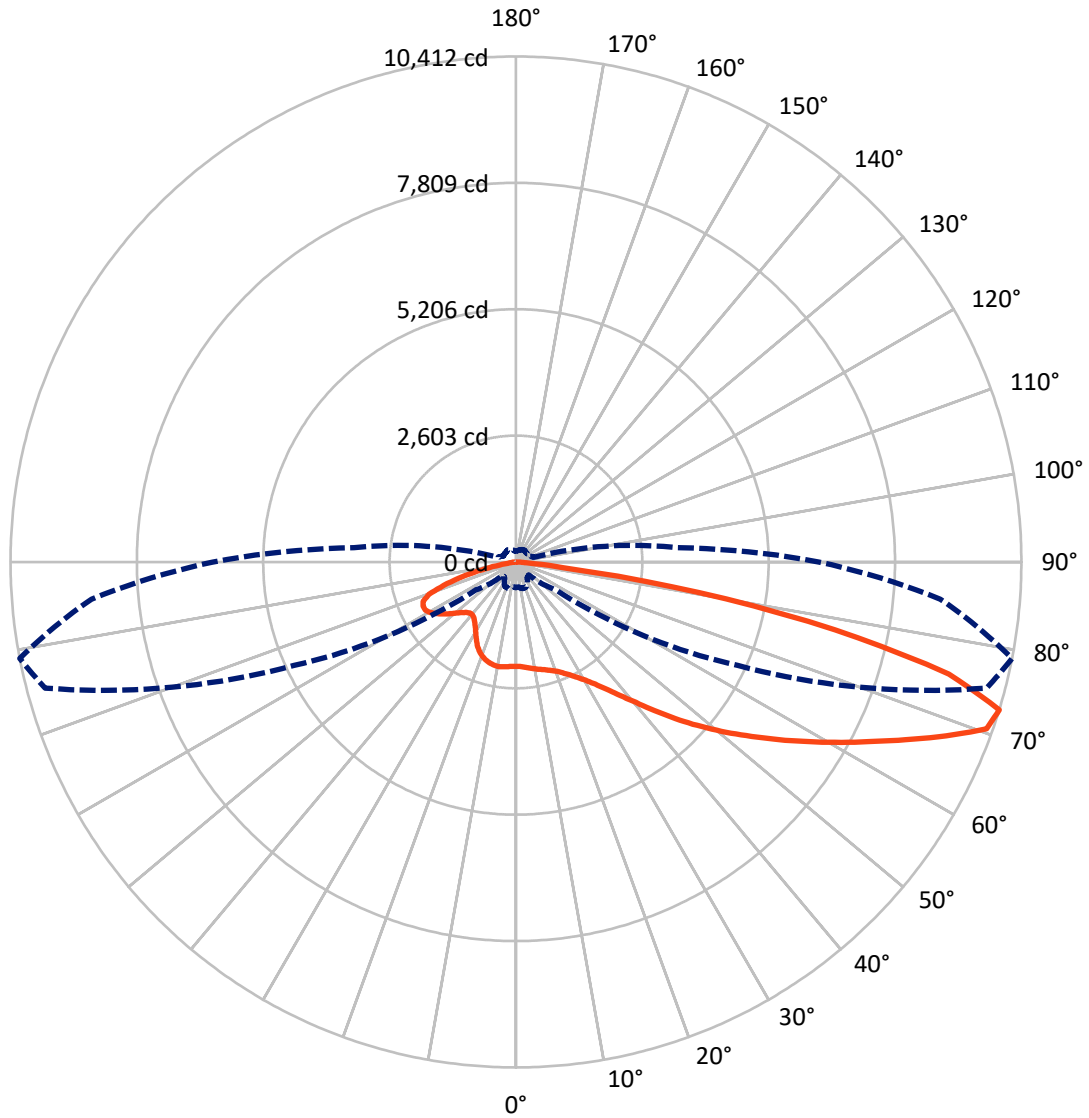
✕ Max cd
 - - - 1/2 Max cd



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	2355.5	0.0	2355.5
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	8348.5	0.0	8348.5
	% Fixture	78.0	0.0	78.0
Total	Lumens	10704.0	0.0	10704.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.0	1.8
10°-20°	509.9	4.8
20°-30°	822.8	7.7
30°-40°	1235.0	11.5
40°-50°	1751.9	16.4
50°-60°	2212.4	20.7
60°-70°	2246.9	21.0
70°-80°	1531.4	14.3
80°-90°	198.7	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°	10704.0	100.0
0°-180°	10704.0	100.0



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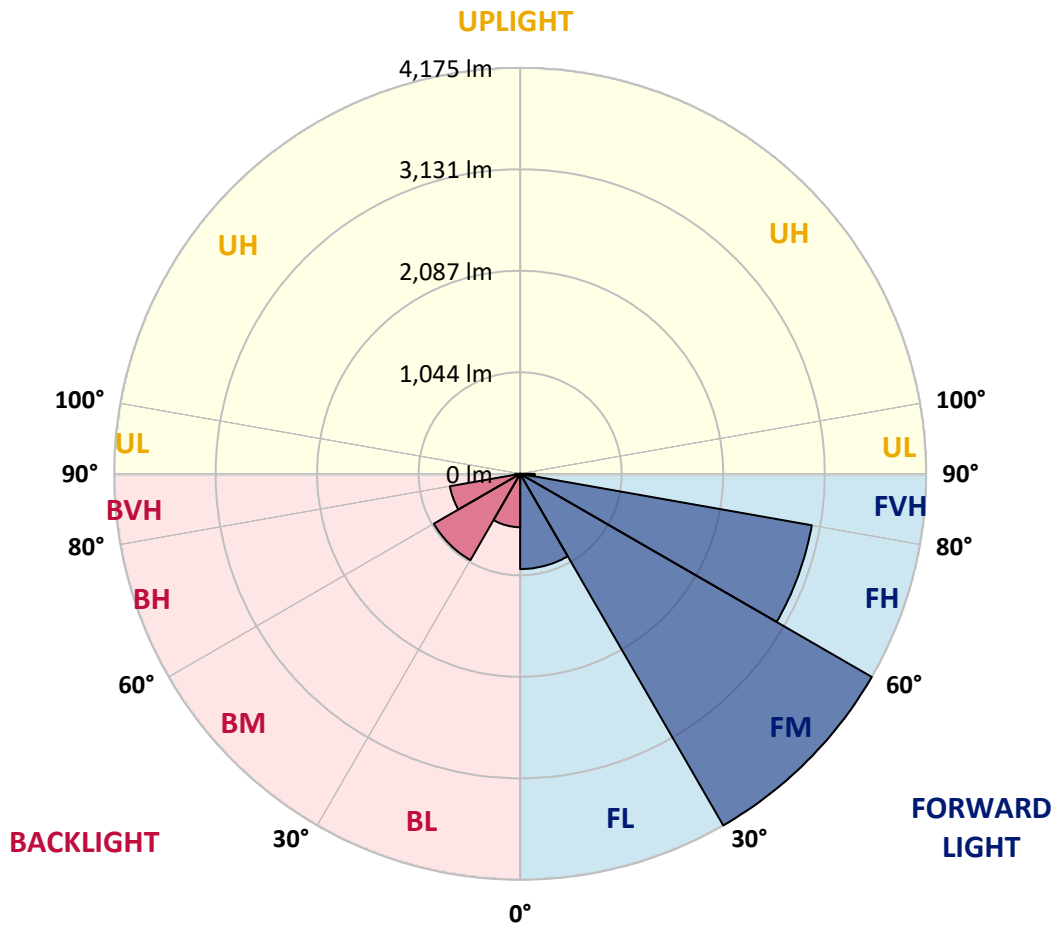
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	979.2	9.1			
FM (30°-60°)	4174.8	39.0			
FH (60°-80°)	3044.9	28.4			G2/5000
FVH (80°-90°)	149.7	1.4			G2/225
BL (0°-30°)	548.7	5.1	B2/1000		
BM (30°-60°)	1024.4	9.6	B2/2500		
BH (60°-80°)	733.4	6.9	B2/1000		G2/1000
BVH (80°-90°)	49.0	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°	2148.7	2148.7	2148.7	2148.7	2148.7	2148.7	2148.7	2148.7	2148.7	2148.7
2.5°	2149.9	2139.7	2145.9	2143.6	2146.5	2149.9	2151.0	2152.7	2158.4	2157.8
5°	2145.3	2135.1	2143.6	2140.8	2148.2	2156.1	2162.9	2169.1	2178.2	2182.1
7.5°	2135.7	2128.9	2137.4	2145.9	2159.5	2171.4	2181.0	2195.2	2208.2	2210.4
10°	2079.6	2074.6	2094.4	2116.5	2153.8	2186.1	2207.0	2223.5	2237.6	2239.9
12.5°	2021.3	2015.1	2037.2	2067.2	2127.8	2186.1	2230.3	2251.8	2264.2	2271.6
15°	2011.7	2006.6	2019.1	2045.1	2095.5	2170.8	2246.1	2285.7	2296.5	2305.0
17.5°	2058.1	2048.5	2053.6	2062.7	2092.1	2156.7	2258.6	2324.2	2340.7	2349.7
20°	2165.7	2152.1	2144.2	2126.1	2121.0	2158.9	2257.4	2370.7	2392.2	2403.5
22.5°	2309.0	2299.9	2282.9	2237.1	2187.2	2186.7	2279.0	2430.1	2470.3	2481.1
25°	2482.2	2468.6	2447.1	2384.8	2289.1	2241.6	2315.2	2506.0	2573.4	2576.2
27.5°	2681.5	2661.1	2631.7	2549.6	2420.5	2327.6	2370.7	2593.2	2691.7	2690.6
30°	2891.6	2871.2	2840.1	2740.4	2577.9	2443.7	2447.7	2687.2	2832.1	2825.9
32.5°	3045.0	3029.7	3023.5	2946.5	2759.1	2580.7	2536.0	2791.4	3005.4	2999.7
35°	3162.8	3143.0	3150.3	3111.3	2956.7	2734.2	2644.2	2915.4	3216.0	3215.4
37.5°	3279.4	3261.9	3268.1	3242.1	3139.6	2928.9	2776.1	3067.1	3477.0	3489.5
40°	3385.9	3367.2	3392.1	3367.8	3281.7	3136.2	2926.1	3238.7	3779.4	3803.2
42.5°	3449.9	3435.1	3476.5	3477.0	3405.1	3311.1	3090.9	3427.8	4129.3	4182.5
45°	3471.9	3466.8	3529.1	3542.1	3514.4	3412.5	3239.2	3633.9	4506.4	4601.5
47.5°	3448.2	3438.5	3524.6	3572.7	3594.8	3460.0	3362.1	3856.9	4891.4	5030.7
50°	3328.1	3309.4	3437.4	3538.7	3617.4	3491.2	3486.1	4114.6	5329.1	5481.4
52.5°	3112.4	3098.2	3243.8	3419.8	3567.6	3506.5	3625.4	4396.0	5744.7	5941.7
55°	2836.7	2818.0	2978.2	3208.1	3443.6	3501.4	3764.7	4710.8	6235.0	6434.9
57.5°	2399.6	2362.2	2564.9	2836.7	3241.5	3495.1	3909.6	5023.9	6733.2	6972.7
60°	1762.0	1706.5	1955.1	2277.3	2846.3	3434.6	4089.1	5374.9	7331.1	7546.9
62.5°	1026.0	993.7	1156.2	1456.8	2145.3	3077.9	4189.9	5783.2	7918.9	8145.3
65°	796.6	787.6	801.7	825.0	1194.1	2304.4	3879.0	6181.2	8666.2	8824.8
67.5°	728.7	721.9	728.1	684.5	605.8	1283.6	3068.8	6282.0	9466.9	9563.1
70°	647.7	639.8	660.2	622.8	476.7	583.8	1982.8	5916.2	10103.8	10284.4
72.5°	527.7	518.6	566.2	549.2	401.4	374.8	995.9	5047.1	10037.0	10411.8
75°	405.4	400.3	456.9	471.1	327.3	295.0	477.9	3751.6	8832.7	9210.4
77.5°	314.8	310.8	339.7	391.2	263.8	228.7	293.9	2379.7	6656.2	6722.5
80°	236.1	224.8	251.4	302.9	205.5	167.0	199.3	1387.8	4207.4	3813.9
82.5°	147.8	142.1	164.2	202.1	144.9	114.9	129.7	766.6	1686.1	993.1
85°	84.4	82.1	89.5	115.5	78.7	66.2	74.2	338.6	308.0	211.8
87.5°	34.0	32.8	40.8	51.5	28.9	24.3	26.0	81.5	67.9	62.8
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°
2148.7	0°	2148.7	2148.7	2148.7	2148.7	2148.7	2148.7	2148.7	2148.7	2148.7	2148.7
2157.2	2.5°	2155.0	2155.0	2147.0	2134.6	2120.4	2111.4	2096.6	2092.7	2077.4	2072.9
2176.5	5°	2181.0	2176.5	2152.1	2117.0	2068.9	2024.7	1976.0	1945.5	1902.4	1887.1
2214.4	7.5°	2213.8	2201.4	2159.5	2082.5	1981.7	1882.6	1779.6	1701.4	1626.7	1600.1
2245.5	10°	2243.8	2226.3	2155.0	2020.2	1845.8	1674.3	1510.1	1395.1	1307.9	1272.2
2280.1	12.5°	2273.9	2241.6	2124.9	1916.6	1652.7	1420.0	1245.1	1155.6	1101.8	1058.8
2308.4	15°	2302.2	2256.9	2078.5	1777.9	1441.0	1204.9	1075.8	1004.4	961.4	933.1
2349.7	17.5°	2335.0	2269.9	2008.9	1601.8	1239.4	1056.0	950.6	907.6	899.1	895.7
2406.3	20°	2380.9	2281.8	1917.2	1404.7	1091.1	937.1	882.7	878.7	878.2	876.5
2474.3	22.5°	2430.1	2295.9	1796.0	1225.8	964.8	862.9	853.3	845.3	840.2	839.7
2556.4	25°	2488.4	2300.5	1644.2	1079.2	857.2	827.8	816.5	804.6	801.2	801.2
2649.8	27.5°	2545.1	2285.2	1467.6	951.8	796.6	795.5	780.8	776.8	776.3	778.0
2756.3	30°	2601.7	2256.3	1292.1	834.0	761.5	761.5	756.4	759.3	761.5	767.2
2902.3	32.5°	2678.1	2225.7	1145.4	746.8	731.0	725.3	730.4	736.1	738.3	745.7
3094.3	35°	2790.2	2204.2	1028.8	699.3	699.3	691.9	694.7	693.6	688.5	685.1
3326.4	37.5°	2938.6	2203.1	932.5	677.2	672.6	671.5	672.1	664.7	644.9	621.1
3607.3	40°	3116.9	2233.7	858.4	661.9	658.5	665.3	661.9	642.1	587.7	546.4
3952.6	42.5°	3356.4	2320.9	810.8	643.2	653.4	661.9	648.3	579.8	543.0	515.2
4346.1	45°	3638.4	2462.4	786.5	623.4	643.8	654.0	588.3	558.3	528.8	495.4
4775.3	47.5°	3957.7	2640.8	780.8	604.7	622.3	628.5	562.8	549.2	515.8	479.6
5206.8	50°	4305.4	2851.9	796.1	582.6	591.1	569.6	554.3	541.9	507.3	471.6
5649.0	52.5°	4664.9	3084.7	826.7	552.6	560.0	536.2	550.9	540.2	502.2	454.1
6105.9	55°	5018.2	3319.1	856.1	517.5	528.3	506.2	541.3	533.4	479.0	424.6
6593.4	57.5°	5377.2	3552.3	885.0	486.4	497.7	477.3	526.0	515.2	453.0	397.5
7125.6	60°	5750.3	3778.8	898.6	456.4	464.3	450.7	502.8	484.1	423.5	369.7
7648.8	62.5°	6099.7	3967.4	876.5	426.3	431.4	425.8	472.2	447.3	394.1	338.6
8194.0	65°	6450.1	4079.5	808.5	396.9	398.0	395.2	429.2	407.7	359.5	311.4
8671.3	67.5°	6767.8	4142.3	700.4	365.2	362.4	361.2	389.0	364.6	326.1	284.2
9034.3	70°	6835.2	3982.6	535.1	327.8	327.8	325.0	344.8	319.9	289.3	255.4
8774.4	72.5°	6242.9	3350.2	379.9	285.4	289.9	284.2	300.7	279.7	252.0	229.3
7562.2	75°	5034.1	2456.7	276.3	241.8	249.7	240.1	255.4	240.6	216.9	216.3
5211.3	77.5°	3458.9	1519.1	200.4	199.3	205.0	192.5	210.1	202.1	180.6	171.0
2268.2	80°	1476.1	605.8	146.1	154.0	154.0	142.7	163.1	165.3	146.6	142.1
437.7	82.5°	293.9	172.1	102.5	105.9	99.7	96.3	115.5	128.0	176.7	196.5
131.9	85°	88.3	63.4	61.7	57.8	51.0	51.5	67.9	128.5	158.5	90.6
43.6	87.5°	24.3	15.9	16.4	13.0	10.8	14.2	23.2	97.4	53.2	22.6
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>
2148.7
2080.2
1898.5
1603.5
1280.2
1072.9
938.2
898.0
882.1
845.9
804.6
782.5
771.2
751.9
693.0
621.7
545.2
514.1
493.2
476.7
467.7
450.7
421.8
396.3
368.0
338.0
308.0
280.8
254.2
222.5
194.8
160.2
142.1
197.0
78.1
19.3
0.0

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