

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: P942949

Luminaire Tested: **GALN-SB7A-940-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942949
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB7A-940-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22848 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

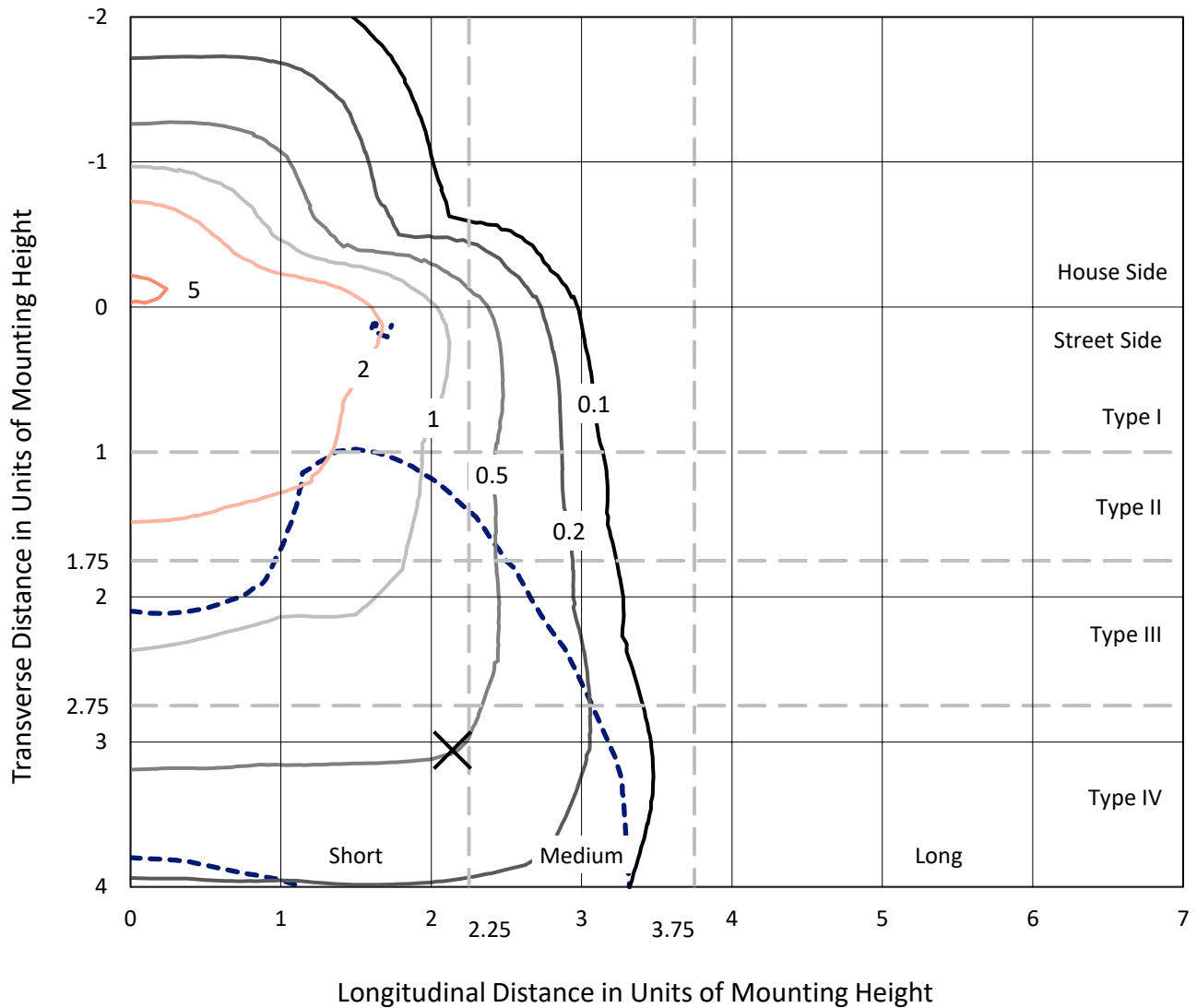
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

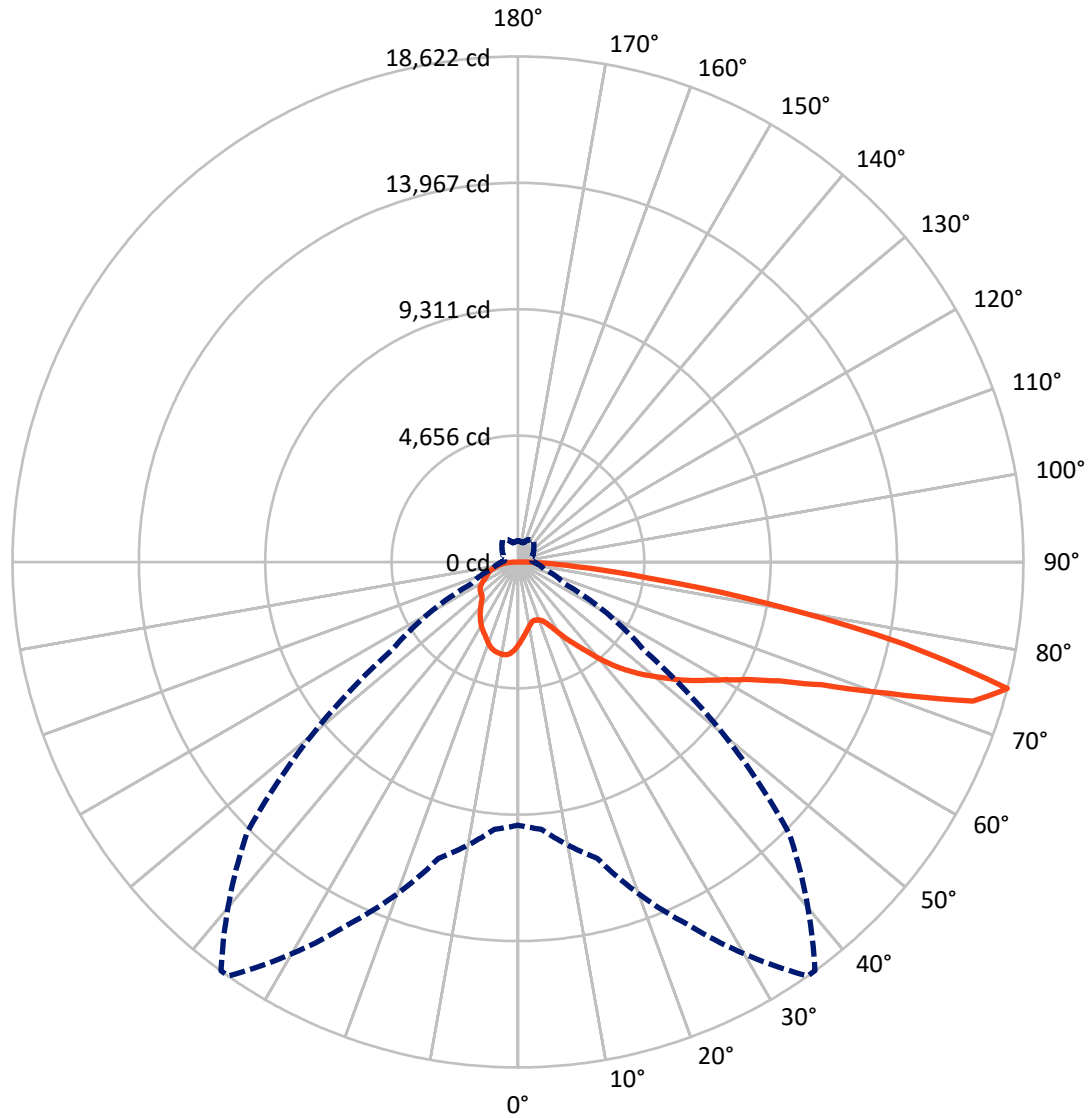
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5437.2	0.0	5437.2
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	17410.7	0.0	17410.7
	% Fixture	76.2	0.0	76.2
Total	Lumens	22848.0	0.0	22848.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.3	1.3
10°-20°	831.5	3.6
20°-30°	1396.3	6.1
30°-40°	2170.0	9.5
40°-50°	3220.9	14.1
50°-60°	4446.6	19.5
60°-70°	5394.8	23.6
70°-80°	4458.4	19.5
80°-90°	641.2	2.8
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°	22848.0	100.0
0°-180°	22848.0	100.0

Coefficient of Utilization



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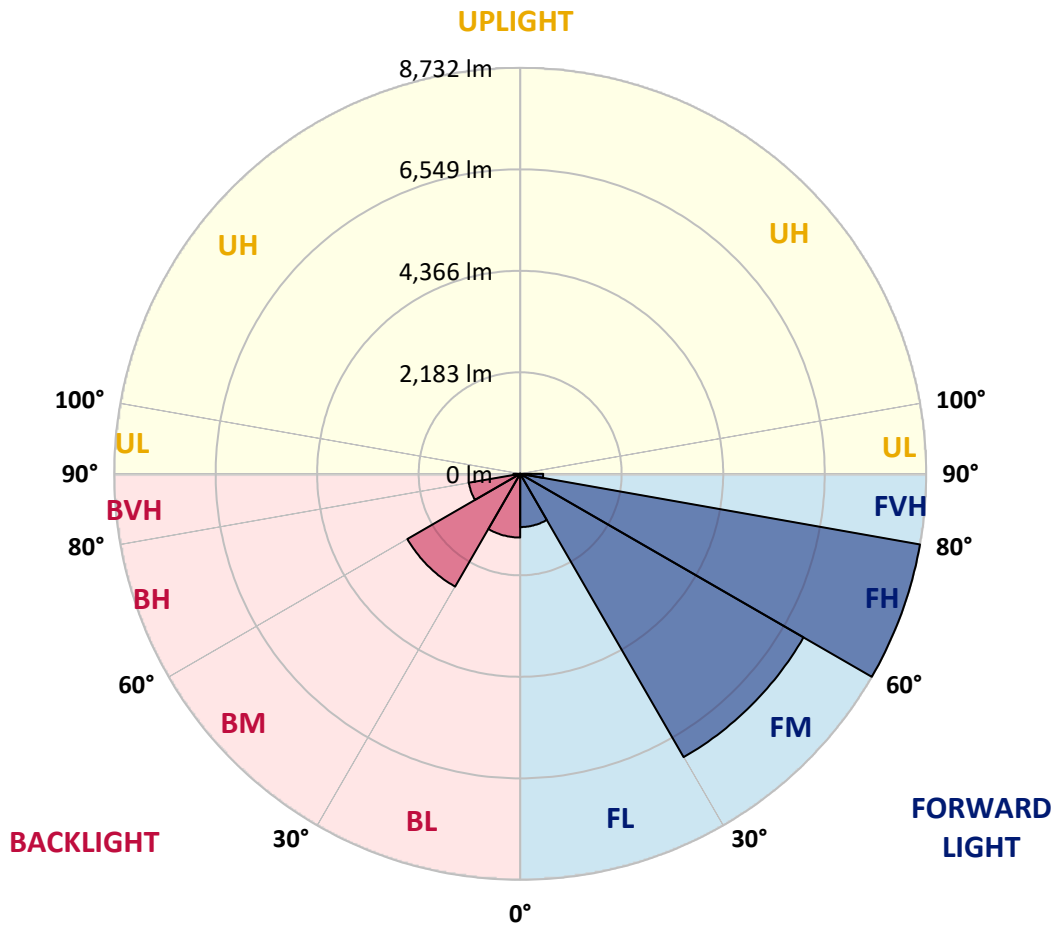
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1145.8	5.0			
FM (30°-60°)	7035.9	30.8			
FH (60°-80°)	8732.2	38.2			G4/12000
FVH (80°-90°)	496.9	2.2			G3/500
BL (0°-30°)	1370.3	6.0	B3/2500		
BM (30°-60°)	2801.6	12.3	B3/5000		
BH (60°-80°)	1121.0	4.9	B3/2500		G3/2500
BVH (80°-90°)	144.4	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	3044.7	3044.7	3044.7	3044.7	3044.7	3044.7	3044.7	3044.7	3044.7	3044.7
2.5°	2807.5	2824.8	2832.2	2828.5	2847.0	2844.6	2870.5	2902.6	2947.1	2990.3
5°	2591.3	2609.9	2625.9	2640.8	2676.6	2687.7	2728.5	2790.2	2871.7	2954.5
7.5°	2390.0	2406.1	2430.8	2458.0	2518.5	2529.6	2597.5	2693.9	2807.5	2928.5
10°	2225.7	2241.8	2267.7	2298.6	2374.0	2387.5	2474.0	2602.5	2750.7	2903.8
12.5°	2155.3	2160.3	2175.1	2206.0	2271.4	2280.1	2375.2	2522.2	2695.1	2885.3
15°	2151.6	2161.5	2162.8	2178.8	2233.2	2236.9	2324.6	2470.3	2660.5	2881.6
17.5°	2188.7	2196.1	2185.0	2194.9	2240.6	2246.7	2315.9	2445.6	2649.4	2897.7
20°	2287.5	2293.7	2260.3	2246.7	2280.1	2285.0	2353.0	2461.7	2660.5	2931.0
22.5°	2497.5	2501.2	2419.7	2364.1	2366.6	2369.0	2428.3	2527.1	2703.7	2991.5
25°	2824.8	2822.3	2692.6	2585.2	2523.4	2509.8	2549.4	2633.3	2776.6	3071.8
27.5°	3207.7	3189.2	3059.5	2898.9	2764.3	2744.5	2735.9	2771.7	2880.4	3178.0
30°	3640.0	3622.7	3483.1	3273.2	3086.6	3054.5	2973.0	2954.5	3034.8	3322.6
32.5°	4114.3	4103.2	3936.4	3682.0	3432.5	3395.4	3258.3	3208.9	3271.9	3541.2
35°	4512.0	4502.1	4363.8	4101.9	3796.9	3751.2	3611.6	3556.0	3588.1	3821.6
37.5°	4871.4	4866.5	4747.9	4541.7	4226.7	4171.1	4014.2	3995.7	3989.5	4190.9
40°	5204.9	5192.6	5069.1	4960.4	4726.9	4676.3	4537.9	4521.9	4475.0	4645.4
42.5°	5574.2	5542.1	5363.0	5312.4	5249.4	5207.4	5124.6	5127.1	5023.4	5158.0
45°	5875.6	5857.1	5673.1	5643.4	5711.3	5694.1	5765.7	5784.2	5582.9	5695.3
47.5°	6199.2	6181.9	6026.3	6005.3	6189.3	6194.3	6447.5	6453.7	6128.8	6253.6
50°	6598.2	6573.5	6419.1	6445.0	6651.3	6669.8	7133.0	7091.0	6631.5	6820.5
52.5°	6861.3	6876.1	6842.7	6884.7	7166.4	7183.6	7807.4	7699.9	7129.3	7380.0
55°	7055.2	7084.8	7188.6	7284.9	7709.8	7727.1	8443.5	8279.2	7541.8	7898.8
57.5°	7304.7	7262.7	7456.6	7644.4	8226.1	8271.8	9062.3	8837.5	7907.4	8345.9
60°	7662.9	7633.2	7783.9	8061.8	8804.2	8877.0	9716.9	9340.2	8175.5	8700.4
62.5°	8389.2	8315.0	8338.5	8584.3	9532.9	9629.2	10455.6	9778.7	8308.9	8838.8
65°	9474.9	9347.6	9229.1	9399.5	10559.3	10654.4	11289.3	10123.3	8259.5	8570.7
67.5°	10842.2	10716.2	10570.4	10731.0	12071.1	12146.5	12318.2	10317.2	7870.4	7538.1
70°	11969.9	11922.9	12097.1	12757.9	14485.9	14488.3	13637.3	10156.7	6804.5	5344.5
72.5°	11820.4	11792.0	12709.7	14752.7	17529.3	17463.8	14886.1	8941.3	4583.7	2411.0
75°	9697.2	9881.2	11302.9	14716.8	18622.4	18613.7	14121.5	5684.2	1896.0	999.2
77.5°	5200.0	5491.5	7338.0	10865.6	14537.7	14756.4	9928.2	1988.6	814.0	639.8
80°	1695.9	1950.3	2924.8	5532.2	9446.4	9405.7	4255.1	780.6	557.1	453.3
82.5°	720.1	749.7	1306.8	2612.3	4848.0	4772.6	1355.0	448.4	391.5	310.0
85°	281.6	315.0	576.8	1208.0	2099.8	2054.1	489.1	222.3	250.7	202.6
87.5°	92.6	112.4	206.3	413.8	653.4	629.9	119.8	76.6	108.7	92.6
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°
3044.7	0°	3044.7	3044.7	3044.7	3044.7	3044.7	3044.7	3044.7	3044.7	3044.7	3044.7
3053.3	2.5°	3070.6	3090.4	3113.8	3148.4	3178.0	3202.8	3228.7	3244.7	3250.9	3269.4
3058.2	5°	3092.8	3136.1	3194.1	3250.9	3306.5	3339.9	3369.5	3384.3	3397.9	3407.8
3071.8	7.5°	3129.9	3185.5	3276.9	3351.0	3397.9	3425.1	3444.8	3439.9	3444.8	3447.3
3086.6	10°	3162.0	3239.8	3348.5	3418.9	3454.7	3456.0	3451.0	3433.7	3425.1	3426.3
3108.9	12.5°	3200.3	3286.7	3404.1	3463.4	3473.2	3446.1	3425.1	3395.4	3384.3	3379.4
3142.2	15°	3252.2	3351.0	3464.6	3486.8	3462.1	3427.5	3391.7	3343.6	3318.9	3299.1
3199.0	17.5°	3315.1	3423.8	3511.5	3495.5	3442.4	3385.6	3327.5	3254.6	3204.0	3183.0
3276.9	20°	3402.8	3500.4	3547.4	3477.0	3396.7	3310.2	3211.4	3122.5	3075.5	3054.5
3375.7	22.5°	3509.1	3602.9	3581.9	3444.8	3331.2	3192.9	3069.4	3003.9	2980.4	2965.6
3502.9	25°	3636.3	3716.6	3606.6	3397.9	3223.7	3037.2	2942.1	2921.1	2910.0	2898.9
3658.5	27.5°	3801.8	3845.0	3625.2	3328.7	3055.8	2871.7	2837.1	2840.9	2837.1	2818.6
3874.7	30°	4020.4	4011.8	3642.5	3216.3	2863.1	2722.3	2724.7	2740.8	2743.3	2730.9
4176.1	32.5°	4308.2	4220.5	3651.1	3070.6	2679.0	2591.3	2593.8	2611.1	2623.5	2602.5
4570.1	35°	4656.5	4463.8	3637.5	2887.8	2537.0	2466.6	2448.1	2453.0	2456.7	2437.0
5048.1	37.5°	5062.9	4736.8	3577.0	2685.2	2419.7	2344.3	2304.8	2271.4	2251.7	2233.2
5589.1	40°	5508.8	5034.5	3465.8	2487.6	2288.7	2214.6	2155.3	2092.3	2025.6	2000.9
6162.2	42.5°	5975.7	5340.8	3331.2	2298.6	2138.0	2077.5	2014.5	1923.1	1823.1	1772.4
6757.5	45°	6459.8	5654.5	3199.0	2112.1	1983.7	1957.7	1884.8	1774.9	1666.2	1602.0
7354.1	47.5°	6934.1	5951.0	3005.1	1924.4	1839.1	1867.6	1810.7	1709.5	1588.4	1487.1
7945.7	50°	7387.4	6228.9	2687.7	1734.2	1721.8	1840.4	1786.0	1640.3	1501.9	1372.3
8526.3	52.5°	7837.0	6453.7	2281.3	1561.2	1658.8	1833.0	1753.9	1593.3	1424.1	1288.3
9072.2	55°	8218.7	6569.8	1889.8	1413.0	1567.4	1770.0	1715.6	1537.8	1314.2	1169.7
9446.4	57.5°	8436.1	6475.9	1563.7	1267.3	1441.4	1666.2	1650.2	1419.2	1183.3	1072.1
9519.3	60°	8342.2	6095.5	1296.9	1140.0	1321.6	1553.8	1536.5	1301.9	1083.2	978.2
9129.0	62.5°	7824.7	5370.4	1085.7	1028.9	1212.9	1439.0	1422.9	1211.7	1006.6	905.4
8092.7	65°	6782.2	4368.7	921.4	936.2	1103.0	1300.6	1324.1	1136.3	946.1	847.3
6261.0	67.5°	5172.8	3164.5	793.0	856.0	995.5	1164.7	1232.7	1082.0	895.5	801.6
3622.7	70°	2948.3	1797.1	684.3	778.1	900.4	1038.8	1162.3	1038.8	841.1	763.3
1357.4	72.5°	1117.8	825.1	591.6	700.3	809.0	932.5	1084.5	970.8	778.1	720.1
701.6	75°	596.6	502.7	497.8	608.9	704.0	828.8	986.9	904.1	731.2	760.9
485.4	77.5°	406.4	355.7	416.2	521.2	589.2	713.9	883.1	802.8	633.6	631.2
336.0	80°	281.6	252.0	338.4	420.0	455.8	600.3	770.7	689.2	516.3	481.7
207.5	82.5°	169.2	164.3	253.2	313.7	322.4	463.2	638.6	578.1	422.4	368.1
123.5	85°	92.6	97.6	161.8	184.0	187.7	323.6	500.2	447.1	324.8	273.0
44.5	87.5°	25.9	33.3	59.3	72.9	90.2	168.0	297.7	265.6	163.0	113.6
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>
3044.7
3268.2
3410.3
3451.0
3428.8
3376.9
3305.3
3184.2
3052.1
2968.1
2898.9
2822.3
2737.1
2612.3
2450.5
2245.5
2012.1
1778.6
1597.1
1476.0
1361.1
1273.4
1157.3
1057.3
963.4
889.3
831.3
786.8
753.4
710.2
785.6
581.8
460.7
370.5
275.4
113.6
0.0

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