

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: P941252

Luminaire Tested: **GALN-SB4C-950-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941252
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-SB4C-950-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20697 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

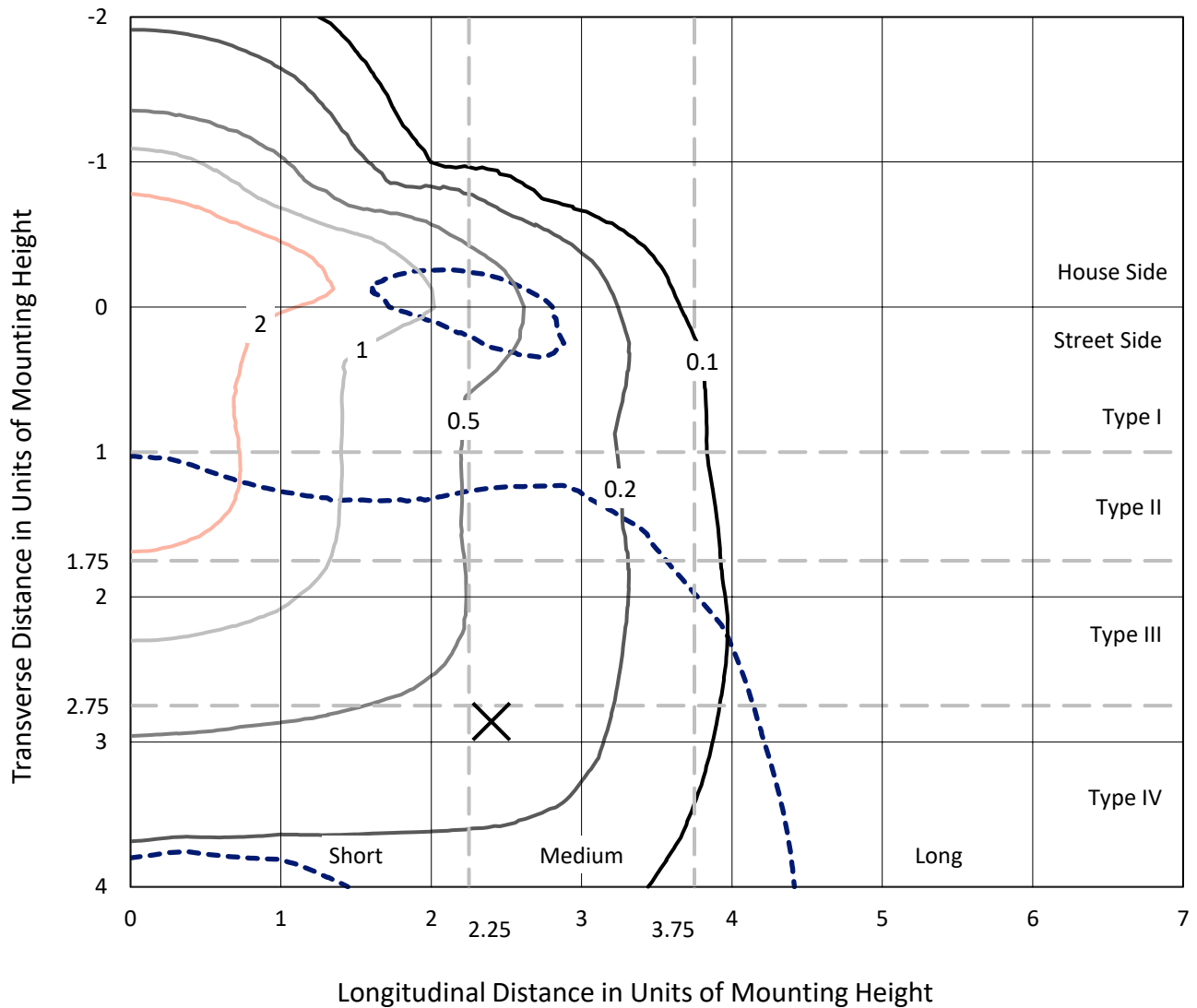
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

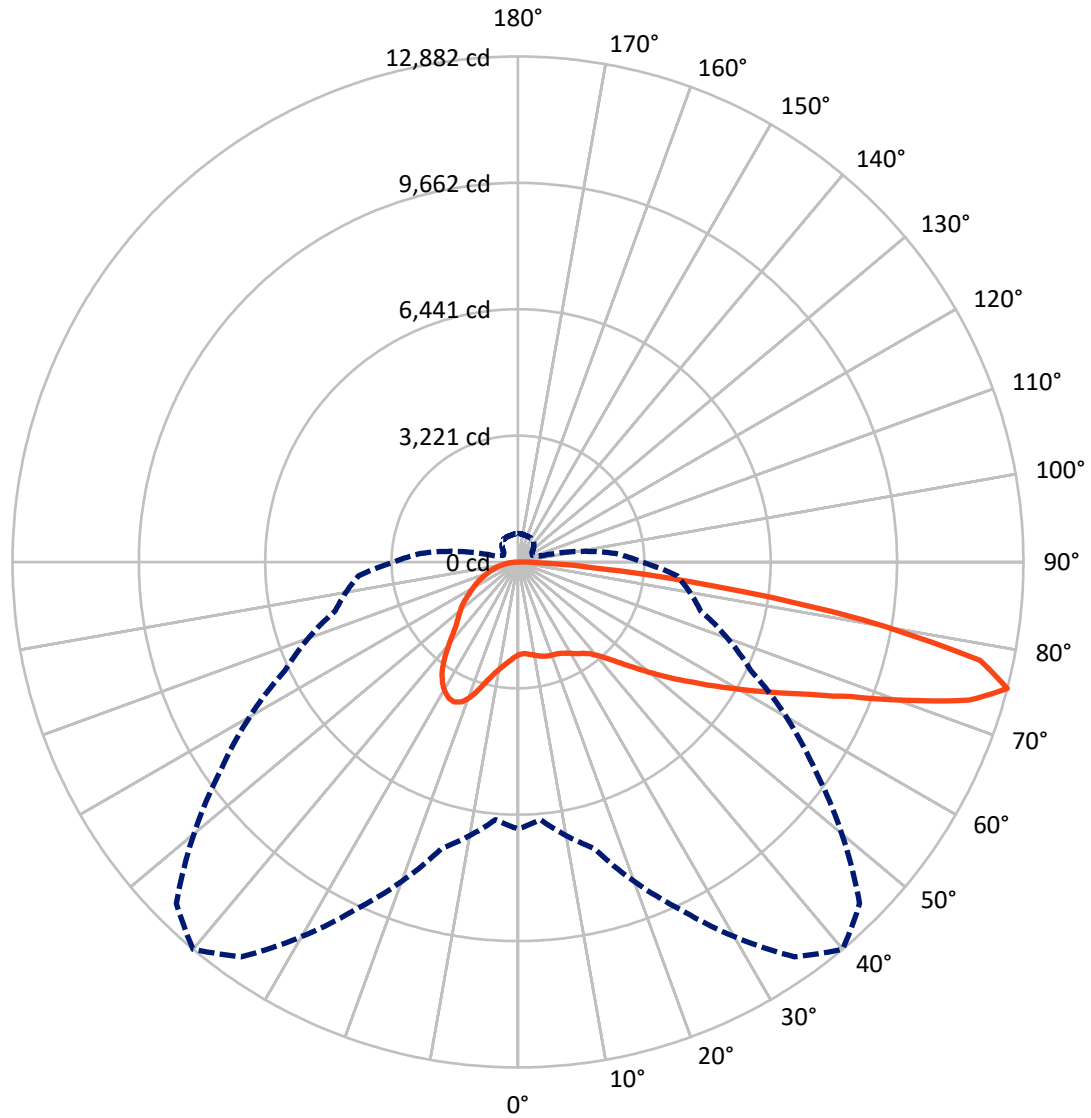
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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	6412.6	0.0	6412.6
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	14284.4	0.0	14284.4
	% Fixture	69.0	0.0	69.0
Total	Lumens	20697.0	0.0	20697.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.2	1.1
10°-20°	793.2	3.8
20°-30°	1448.3	7.0
30°-40°	2054.1	9.9
40°-50°	2773.6	13.4
50°-60°	3731.3	18.0
60°-70°	4735.8	22.9
70°-80°	4298.0	20.8
80°-90°	626.5	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°	20697.0	100.0
0°-180°	20697.0	100.0



REPORT NUMBER: P941252

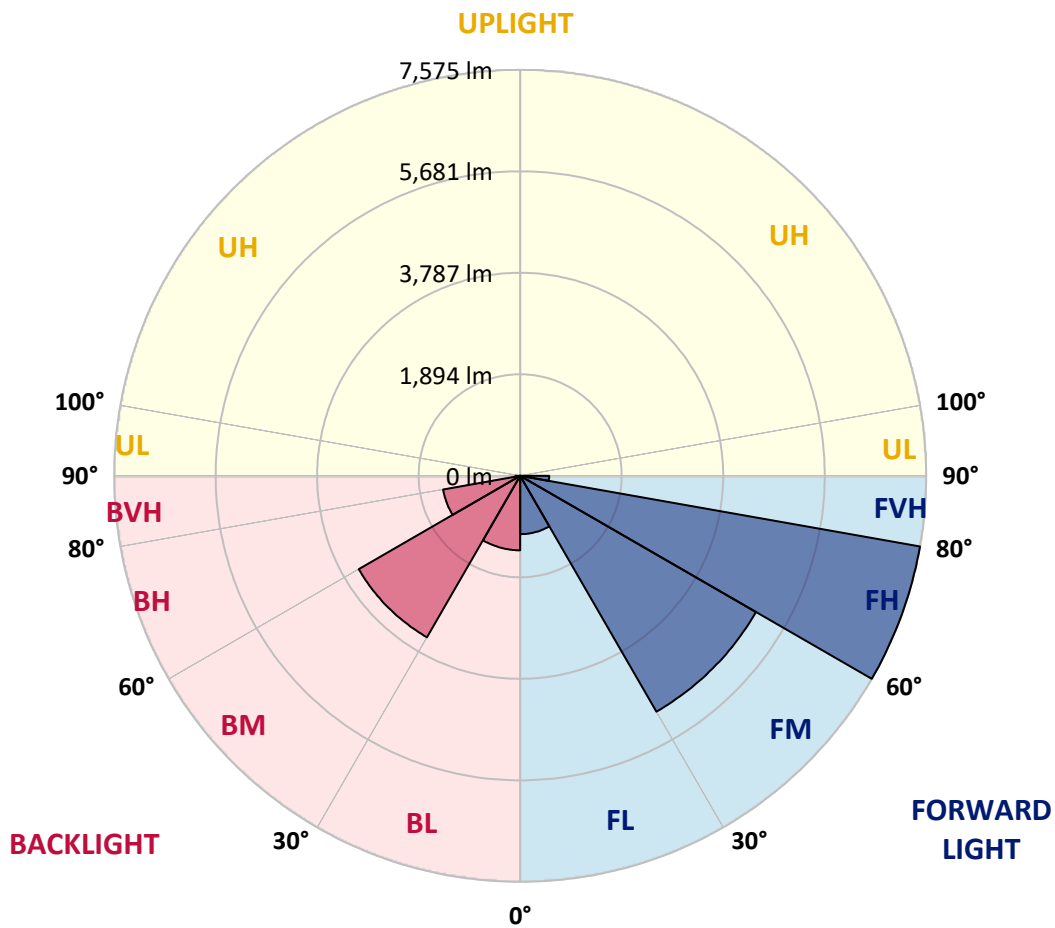
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1088.7	5.3			
FM (30°-60°)	5080.6	24.5			
FH (60°-80°)	7574.8	36.6			G4/12000
FVH (80°-90°)	540.3	2.6			G4/750
BL (0°-30°)	1389.0	6.7	B3/2500		
BM (30°-60°)	3478.3	16.8	B3/5000		
BH (60°-80°)	1459.1	7.0	B3/2500		G3/2500
BVH (80°-90°)	86.3	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-G4

Type IV Medium



REPORT NUMBER: P941252
 CATALOG NUMBER: GALN-SB4C-950-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	2366.7	2366.7	2366.7	2366.7	2366.7	2366.7	2366.7	2366.7	2366.7	2366.7
2.5°	2330.5	2343.7	2340.4	2336.0	2336.0	2337.1	2336.0	2343.7	2351.4	2359.0
5°	2354.7	2367.8	2361.2	2355.8	2351.4	2350.3	2347.0	2345.9	2350.3	2360.1
7.5°	2401.9	2415.0	2405.2	2395.3	2386.5	2382.1	2377.7	2371.1	2367.8	2373.3
10°	2454.5	2467.7	2455.6	2438.1	2423.8	2418.3	2413.9	2407.3	2403.0	2406.2
12.5°	2507.2	2520.4	2503.9	2479.8	2461.1	2457.8	2452.4	2450.2	2449.1	2448.0
15°	2556.6	2567.6	2546.8	2518.2	2498.5	2493.0	2487.5	2490.8	2496.3	2502.8
17.5°	2595.1	2606.0	2575.3	2538.0	2519.3	2517.1	2513.8	2524.8	2540.2	2556.6
20°	2630.2	2641.2	2601.6	2551.2	2529.2	2529.2	2530.3	2553.3	2575.3	2599.5
22.5°	2679.6	2688.4	2640.1	2570.9	2539.1	2541.3	2550.1	2573.1	2600.5	2633.5
25°	2753.1	2759.7	2700.4	2608.2	2572.0	2578.6	2586.3	2597.3	2623.6	2662.0
27.5°	2871.7	2877.2	2799.2	2674.1	2619.2	2630.2	2641.2	2633.5	2645.6	2678.5
30°	3038.5	3041.8	2943.0	2777.3	2699.3	2704.8	2707.0	2675.2	2652.1	2678.5
32.5°	3236.1	3235.0	3117.6	2902.4	2790.5	2785.0	2766.3	2703.7	2649.9	2673.0
35°	3542.4	3530.3	3378.8	3078.1	2893.6	2859.6	2815.7	2735.6	2660.9	2667.5
37.5°	4049.6	4012.2	3802.6	3365.7	3047.3	2960.6	2895.8	2787.2	2685.1	2665.3
40°	4621.5	4574.3	4343.8	3759.8	3277.9	3138.4	3034.2	2860.7	2724.6	2675.2
42.5°	5299.9	5232.9	4984.8	4224.1	3569.9	3367.9	3210.9	2954.0	2782.8	2707.0
45°	6133.1	6044.2	5692.9	4747.7	3937.6	3668.7	3459.0	3095.6	2871.7	2768.5
47.5°	6975.0	6997.0	6497.5	5347.1	4378.9	4039.7	3769.6	3308.6	3001.2	2867.3
50°	7869.7	7885.1	7297.8	6011.2	4879.5	4459.0	4118.7	3546.8	3181.3	3007.8
52.5°	8567.9	8570.1	8024.5	6706.1	5400.9	4920.1	4495.2	3819.0	3389.8	3194.4
55°	9004.8	8999.3	8533.8	7363.6	6000.3	5404.2	4912.4	4128.6	3644.5	3414.0
57.5°	9322.0	9305.6	8885.1	7929.0	6639.1	5976.1	5384.4	4479.9	3945.3	3675.2
60°	9442.8	9432.9	9123.3	8417.5	7311.0	6608.4	5928.9	4872.9	4286.7	3983.7
62.5°	9488.9	9507.5	9357.1	8890.6	8030.0	7308.8	6527.2	5342.7	4670.9	4332.8
65°	9651.3	9685.4	9654.6	9509.7	8842.3	8128.8	7320.8	5901.5	5090.2	4707.1
67.5°	9973.0	10007.0	10020.2	10250.7	9834.7	9150.8	8311.0	6597.4	5580.9	5095.7
70°	9965.3	9955.4	10188.1	10840.2	11077.3	10565.8	9645.8	7453.7	6166.0	5418.4
72.5°	9070.6	8991.6	9541.6	10833.6	12111.4	12043.3	11276.0	8558.0	6671.0	5458.0
75°	6804.9	6594.1	7565.6	9763.3	12283.7	12882.0	12312.3	9243.0	6551.3	4822.4
77.5°	2910.1	2698.2	3843.2	7227.5	10993.9	12042.2	11361.6	8064.0	5229.6	3188.9
80°	761.8	760.7	1161.4	3276.8	7476.7	8892.8	7801.6	5207.7	2988.1	1139.5
82.5°	315.1	307.4	427.0	1274.5	3653.3	4990.3	4072.6	2322.8	1079.1	308.5
85°	117.5	116.4	207.5	440.2	1288.7	2058.3	1489.6	593.9	268.9	150.4
87.5°	32.9	31.8	45.0	152.6	314.0	476.4	254.7	97.7	75.7	59.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P941252
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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2366.7	0°	2366.7	2366.7	2366.7	2366.7	2366.7	2366.7	2366.7	2366.7	2366.7	2366.7
2371.1	2.5°	2374.4	2379.9	2389.8	2397.5	2407.3	2418.3	2433.7	2443.6	2453.5	2460.0
2376.6	5°	2384.3	2396.4	2421.6	2446.9	2476.5	2503.9	2535.8	2558.8	2577.5	2583.0
2396.4	7.5°	2406.2	2426.0	2468.8	2511.6	2558.8	2603.8	2649.9	2689.5	2721.3	2733.4
2431.5	10°	2444.7	2471.0	2531.4	2591.8	2654.3	2723.5	2782.8	2839.9	2884.9	2903.5
2473.2	12.5°	2493.0	2525.9	2604.9	2688.4	2775.1	2870.6	2947.4	3017.7	3073.7	3098.9
2531.4	15°	2555.5	2598.4	2699.3	2811.3	2938.7	3071.5	3169.2	3247.1	3309.7	3340.4
2591.8	17.5°	2623.6	2680.7	2808.0	2977.1	3159.3	3333.8	3448.0	3505.1	3569.9	3599.5
2647.8	20°	2689.5	2759.7	2941.9	3187.8	3430.4	3616.0	3708.2	3723.5	3727.9	3731.2
2700.4	22.5°	2757.5	2851.9	3109.9	3453.5	3713.7	3842.1	3855.3	3789.4	3697.2	3654.4
2752.0	25°	2832.2	2957.3	3329.4	3746.6	3957.4	3972.7	3871.7	3711.5	3536.9	3456.8
2793.8	27.5°	2904.6	3079.2	3592.9	4026.5	4133.0	3998.0	3780.6	3553.4	3342.6	3258.1
2823.4	30°	2977.1	3218.6	3883.8	4271.3	4213.1	3935.4	3636.8	3383.2	3171.4	3082.5
2849.7	32.5°	3050.6	3381.0	4218.6	4448.0	4198.9	3802.6	3457.9	3192.2	3005.6	2912.3
2872.8	35°	3134.1	3580.8	4535.9	4544.6	4103.4	3607.2	3221.9	2963.9	2801.4	2726.8
2900.2	37.5°	3242.7	3834.4	4815.8	4568.8	3936.5	3320.7	2928.8	2693.9	2559.9	2525.9
2940.8	40°	3377.7	4139.6	5029.8	4530.4	3689.5	2972.7	2608.2	2420.5	2344.8	2352.5
2995.7	42.5°	3553.4	4481.0	5180.2	4431.6	3345.9	2613.7	2327.2	2243.8	2280.0	2310.7
3078.1	45°	3781.7	4835.5	5273.5	4263.6	2957.3	2309.6	2161.5	2181.2	2208.7	2211.9
3210.9	47.5°	4073.7	5194.5	5335.0	4010.0	2561.0	2095.6	2056.1	2060.5	2055.0	2031.9
3409.6	50°	4438.2	5543.6	5389.9	3674.1	2224.0	1961.7	1909.0	1893.6	1817.9	1743.2
3674.1	52.5°	4853.1	5864.1	5413.0	3257.0	1961.7	1849.7	1764.1	1667.5	1525.9	1502.8
4006.8	55°	5314.2	6160.5	5353.7	2744.4	1741.0	1705.9	1576.4	1460.0	1444.6	1424.9
4444.8	57.5°	5865.2	6480.0	5232.9	2172.4	1514.9	1537.9	1411.7	1424.9	1397.4	1366.7
5007.9	60°	6467.9	6810.4	5021.1	1651.0	1281.1	1328.3	1368.9	1367.8	1360.1	1334.9
5601.8	62.5°	7010.2	7027.7	4603.9	1264.6	1075.8	1165.8	1276.7	1275.6	1269.0	1254.7
6222.0	65°	7332.9	6994.8	3908.0	995.7	906.7	1031.9	1151.5	1160.3	1161.4	1160.3
6688.5	67.5°	7275.8	6609.5	2952.9	792.6	767.3	895.8	1027.5	1039.6	1048.3	1050.5
6747.8	70°	6630.4	5763.1	1925.4	632.3	643.3	776.1	910.0	922.1	929.8	938.6
5855.4	72.5°	5168.2	4237.3	1102.1	511.5	534.6	672.9	793.7	807.9	812.3	828.8
4074.8	75°	3149.4	2491.9	595.0	402.9	439.1	575.2	678.4	694.9	702.6	722.3
2001.2	77.5°	1497.3	1079.1	339.2	314.0	353.5	469.8	573.0	591.7	570.8	581.8
552.2	80°	506.1	400.7	214.1	239.3	270.0	366.6	458.9	477.5	433.6	431.4
183.3	82.5°	176.7	162.5	136.1	159.2	174.5	262.4	346.9	371.0	322.7	321.6
82.3	85°	69.2	65.9	75.7	86.7	104.3	161.4	228.3	240.4	198.7	160.3
24.2	87.5°	14.3	15.4	18.7	19.8	31.8	56.0	82.3	101.0	80.1	68.1
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>
2366.7
2455.6
2585.2
2734.5
2904.6
3098.9
3338.2
3598.4
3740.0
3666.5
3468.9
3268.0
3092.3
2924.4
2743.3
2550.1
2378.8
2339.3
2233.9
2049.5
1753.1
1510.5
1428.2
1361.2
1326.1
1249.2
1160.3
1052.7
943.0
835.4
724.5
573.0
427.0
306.3
158.1
62.6
0.0

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