

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: P941752

Luminaire Tested: **GALN-SB5B-940-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941752  
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-SB5B-940-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

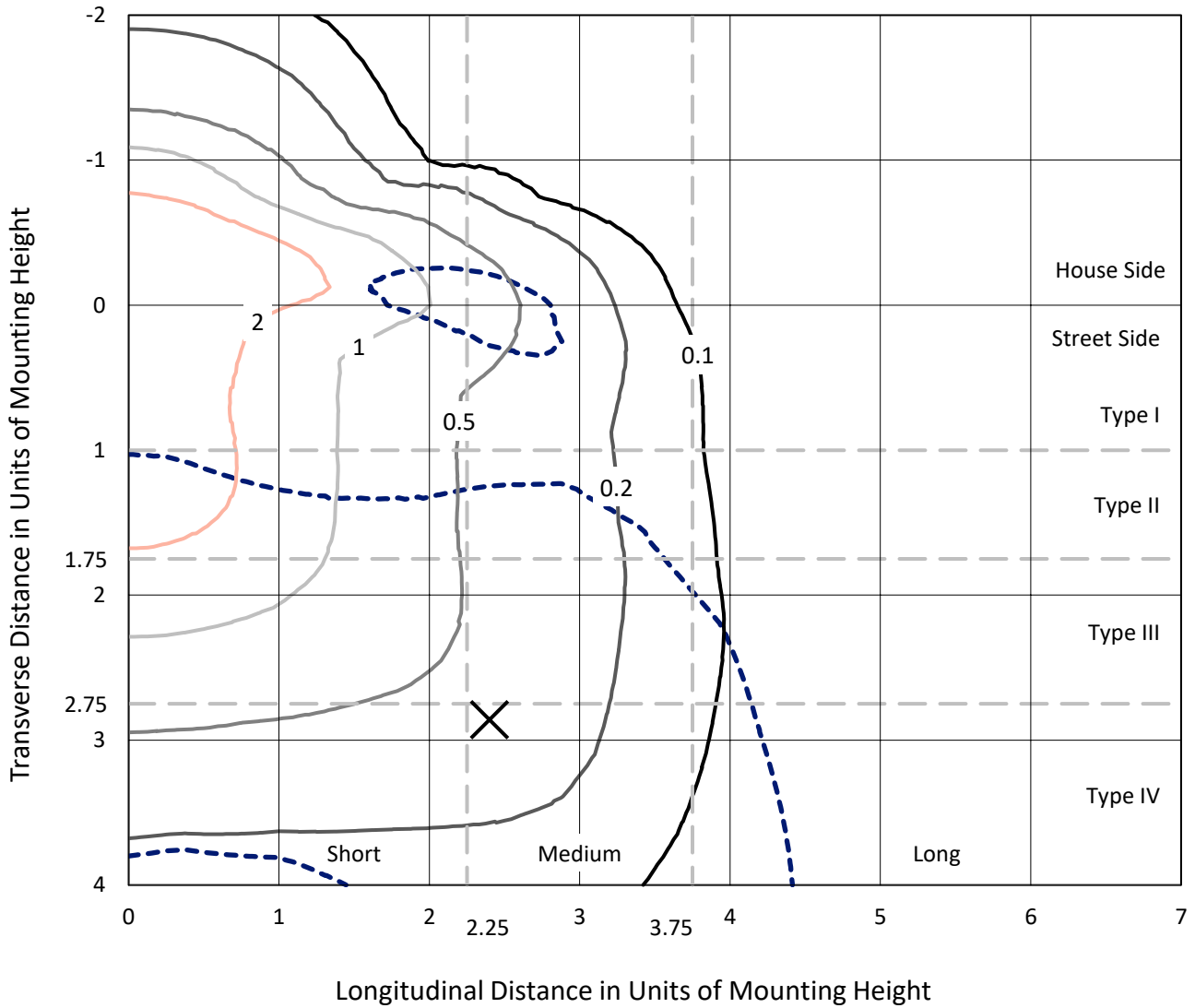
Lumens per Lamp: N/A  
Luminaire Lumens: 20432 lumens  
Efficiency: N/A  
Efficacy: 111.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

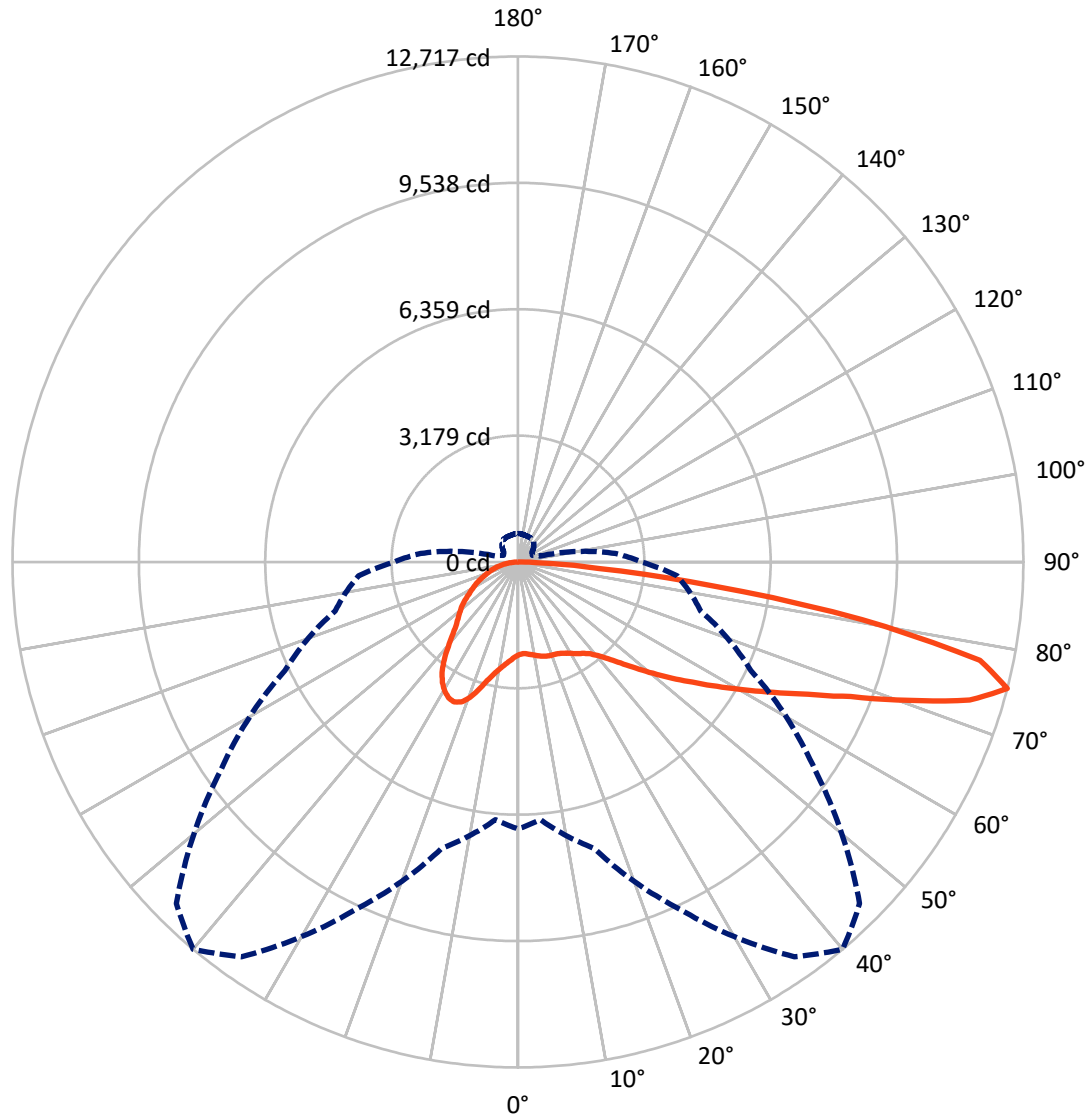
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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
<b>House Side</b>	Lumens	6330.5	0.0	6330.5
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	14101.5	0.0	14101.5
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	20432.0	0.0	20432.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	233.2	1.1
10°-20°	783.0	3.8
20°-30°	1429.7	7.0
30°-40°	2027.8	9.9
40°-50°	2738.1	13.4
50°-60°	3683.5	18.0
60°-70°	4675.2	22.9
70°-80°	4243.0	20.8
80°-90°	618.5	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°	20432.0	100.0
0°-180°	20432.0	100.0

**Coefficient of Utilization**



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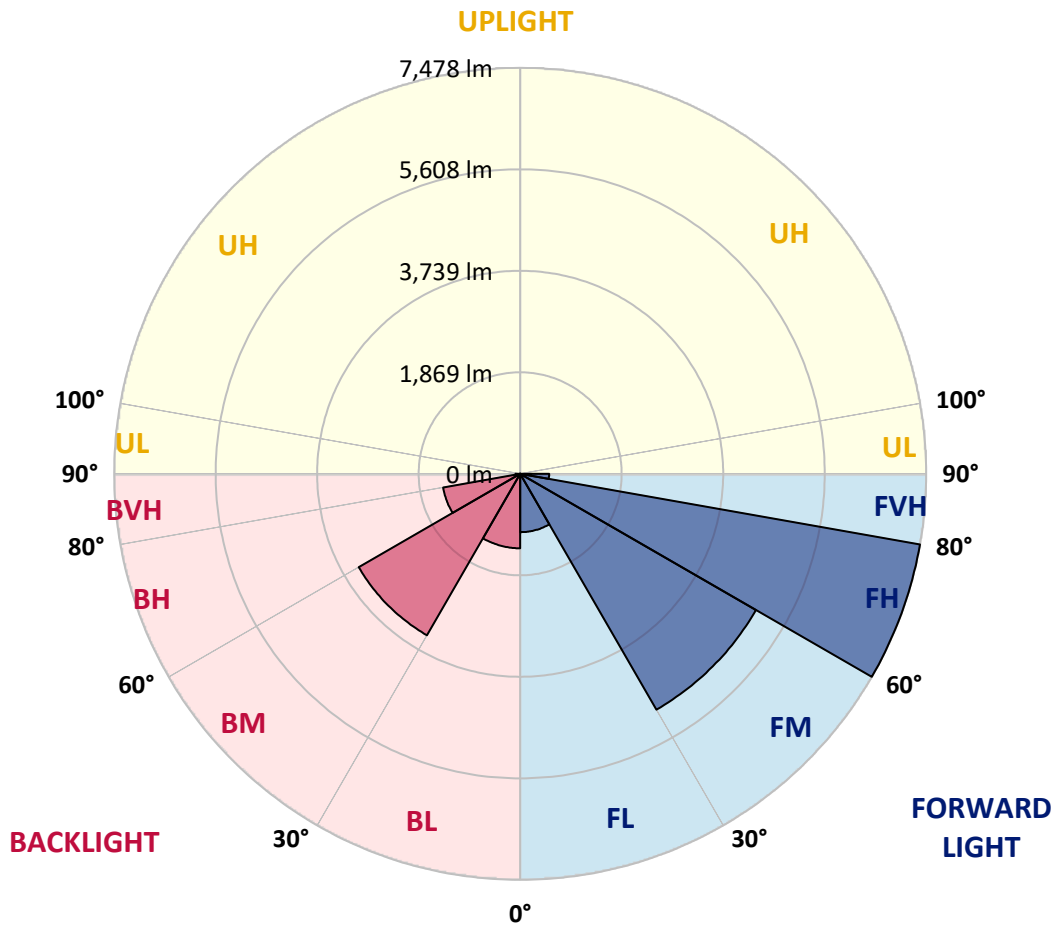
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1074.7	5.3			
FM (30°-60°)	5015.6	24.5			
FH (60°-80°)	7477.8	36.6			G3/7500
FVH (80°-90°)	533.3	2.6			G4/750
BL (0°-30°)	1371.2	6.7	B3/2500		
BM (30°-60°)	3433.7	16.8	B3/5000		
BH (60°-80°)	1440.4	7.0	B3/2500		G3/2500
BVH (80°-90°)	85.2	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



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	2336.4	2336.4	2336.4	2336.4	2336.4	2336.4	2336.4	2336.4	2336.4	2336.4
2.5°	2300.7	2313.7	2310.4	2306.1	2306.1	2307.2	2306.1	2313.7	2321.3	2328.8
5°	2324.5	2337.5	2331.0	2325.6	2321.3	2320.2	2316.9	2315.8	2320.2	2329.9
7.5°	2371.1	2384.1	2374.4	2364.6	2355.9	2351.6	2347.3	2340.8	2337.5	2342.9
10°	2423.1	2436.1	2424.2	2406.9	2392.8	2387.4	2383.0	2376.5	2372.2	2375.4
12.5°	2475.1	2488.1	2471.9	2448.0	2429.6	2426.4	2421.0	2418.8	2417.7	2416.6
15°	2523.9	2534.7	2514.2	2486.0	2466.5	2461.1	2455.6	2458.9	2464.3	2470.8
17.5°	2561.8	2572.7	2542.3	2505.5	2487.1	2484.9	2481.6	2492.5	2507.6	2523.9
20°	2596.5	2607.3	2568.3	2518.5	2496.8	2496.8	2497.9	2520.7	2542.3	2566.2
22.5°	2645.3	2653.9	2606.3	2538.0	2506.6	2508.7	2517.4	2540.2	2567.3	2599.8
25°	2717.9	2724.4	2665.9	2574.8	2539.1	2545.6	2553.2	2564.0	2590.0	2627.9
27.5°	2834.9	2840.3	2763.4	2639.9	2585.7	2596.5	2607.3	2599.8	2611.7	2644.2
30°	2999.6	3002.9	2905.4	2741.7	2664.8	2670.2	2672.4	2640.9	2618.2	2644.2
32.5°	3194.7	3193.6	3077.7	2865.3	2754.7	2749.3	2730.9	2669.1	2616.0	2638.8
35°	3497.1	3485.1	3335.6	3038.7	2856.6	2823.0	2779.7	2700.5	2626.9	2633.4
37.5°	3997.7	3960.9	3753.9	3322.6	3008.3	2922.7	2858.8	2751.5	2650.7	2631.2
40°	4562.3	4515.7	4288.1	3711.6	3235.9	3098.3	2995.3	2824.1	2689.7	2640.9
42.5°	5232.0	5165.9	4921.0	4170.0	3524.1	3324.7	3169.8	2916.2	2747.1	2672.4
45°	6054.6	5966.8	5620.0	4686.9	3887.2	3621.7	3414.7	3056.0	2834.9	2733.1
47.5°	6885.7	6907.4	6414.3	5278.6	4322.8	3988.0	3721.4	3266.2	2962.8	2830.6
50°	7768.9	7784.1	7204.3	5934.3	4817.0	4401.9	4066.0	3501.4	3140.5	2969.3
52.5°	8458.2	8460.3	7921.7	6620.2	5331.7	4857.1	4437.7	3770.1	3346.4	3153.5
55°	8889.5	8884.1	8424.6	7269.4	5923.4	5335.0	4849.5	4075.7	3597.8	3370.3
57.5°	9202.7	9186.4	8771.4	7827.5	6554.1	5899.6	5315.5	4422.5	3894.8	3628.2
60°	9321.9	9312.1	9006.5	8309.7	7217.3	6523.8	5853.0	4810.5	4231.8	3932.7
62.5°	9367.4	9385.8	9237.3	8776.8	7927.2	7215.2	6443.6	5274.3	4611.1	4277.3
65°	9527.8	9561.4	9531.0	9388.0	8729.1	8024.7	7227.1	5825.9	5025.1	4646.8
67.5°	9845.3	9878.9	9891.9	10119.5	9708.7	9033.6	8204.6	6513.0	5509.5	5030.5
70°	9837.7	9827.9	10057.7	10701.4	10935.5	10430.5	9522.3	7358.2	6087.1	5349.1
72.5°	8954.5	8876.5	9419.4	10694.9	11956.3	11889.1	11131.6	8448.4	6585.6	5388.1
75°	6717.8	6509.7	7468.8	9638.3	12126.4	12717.1	12154.6	9124.6	6467.4	4760.6
77.5°	2872.9	2663.7	3794.0	7135.0	10853.1	11888.0	11216.1	7960.8	5162.7	3148.1
80°	752.1	751.0	1146.5	3234.8	7381.0	8778.9	7701.8	5141.0	2949.8	1124.9
82.5°	311.0	303.4	421.6	1258.2	3606.5	4926.4	4020.5	2293.1	1065.3	304.5
85°	116.0	114.9	204.8	434.6	1272.2	2031.9	1470.6	586.3	265.5	148.5
87.5°	32.5	31.4	44.4	150.6	309.9	470.3	251.4	96.4	74.8	58.5
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°
2336.4	0°	2336.4	2336.4	2336.4	2336.4	2336.4	2336.4	2336.4	2336.4	2336.4	2336.4
2340.8	2.5°	2344.0	2349.4	2359.2	2366.8	2376.5	2387.4	2402.5	2412.3	2422.0	2428.5
2346.2	5°	2353.8	2365.7	2390.6	2415.5	2444.8	2471.9	2503.3	2526.1	2544.5	2549.9
2365.7	7.5°	2375.4	2394.9	2437.2	2479.5	2526.1	2570.5	2616.0	2655.0	2686.5	2698.4
2400.4	10°	2413.4	2439.4	2499.0	2558.6	2620.4	2688.6	2747.1	2803.5	2847.9	2866.3
2441.5	12.5°	2461.1	2493.6	2571.6	2653.9	2739.6	2833.8	2909.7	2979.1	3034.3	3059.2
2499.0	15°	2522.8	2565.1	2664.8	2775.3	2901.0	3032.2	3128.6	3205.5	3267.3	3297.7
2558.6	17.5°	2590.0	2646.4	2772.1	2939.0	3118.8	3291.2	3403.9	3460.2	3524.1	3553.4
2613.8	20°	2655.0	2724.4	2904.3	3147.0	3386.5	3569.7	3660.7	3675.9	3680.2	3683.4
2665.9	22.5°	2722.2	2815.4	3070.1	3409.3	3666.1	3792.9	3805.9	3740.9	3649.9	3607.6
2716.8	25°	2795.9	2919.4	3286.8	3698.6	3906.7	3921.9	3822.2	3663.9	3491.6	3412.5
2758.0	27.5°	2867.4	3039.7	3546.9	3975.0	4080.1	3946.8	3732.2	3507.9	3299.8	3216.4
2787.2	30°	2939.0	3177.4	3834.1	4216.6	4159.2	3885.0	3590.3	3339.9	3130.8	3043.0
2813.2	32.5°	3011.6	3337.8	4164.6	4391.1	4145.1	3753.9	3413.6	3151.4	2967.1	2875.0
2836.0	35°	3093.9	3535.0	4477.8	4486.5	4050.8	3561.0	3180.6	2926.0	2765.6	2691.9
2863.1	37.5°	3201.2	3785.3	4754.1	4510.3	3886.1	3278.1	2891.3	2659.4	2527.2	2493.6
2903.2	40°	3334.5	4086.6	4965.4	4472.4	3642.3	2934.6	2574.8	2389.5	2314.8	2322.3
2957.4	42.5°	3507.9	4423.6	5113.9	4374.8	3303.1	2580.3	2297.4	2215.1	2250.8	2281.2
3038.7	45°	3733.3	4773.6	5206.0	4209.0	2919.4	2280.1	2133.8	2153.3	2180.4	2183.6
3169.8	47.5°	4021.6	5128.0	5266.7	3958.7	2528.2	2068.8	2029.7	2034.1	2028.7	2005.9
3365.9	50°	4381.3	5472.6	5320.9	3627.1	2195.5	1936.5	1884.5	1869.4	1794.6	1720.9
3627.1	52.5°	4791.0	5789.0	5343.7	3215.3	1936.5	1826.0	1741.5	1646.1	1506.3	1483.6
3955.5	55°	5246.1	6081.6	5285.1	2709.2	1718.7	1684.0	1556.2	1441.3	1426.1	1406.6
4387.8	57.5°	5790.1	6397.0	5165.9	2144.6	1495.5	1518.2	1393.6	1406.6	1379.5	1349.2
4943.8	60°	6385.1	6723.2	4956.8	1629.9	1264.7	1311.3	1351.4	1350.3	1342.7	1317.8
5530.0	62.5°	6920.4	6937.8	4545.0	1248.4	1062.0	1150.9	1260.3	1259.2	1252.7	1238.7
6142.3	65°	7239.0	6905.2	3857.9	982.9	895.1	1018.7	1136.8	1145.5	1146.5	1145.5
6602.9	67.5°	7182.7	6524.9	2915.1	782.4	757.5	884.3	1014.3	1026.3	1034.9	1037.1
6661.4	70°	6545.5	5689.4	1900.8	624.2	635.0	766.2	898.4	910.3	917.9	926.6
5780.4	72.5°	5102.0	4183.0	1088.0	505.0	527.8	664.3	783.5	797.6	801.9	818.2
4022.6	75°	3109.1	2460.0	587.4	397.7	433.5	567.9	669.7	686.0	693.6	713.1
1975.6	77.5°	1478.1	1065.3	334.9	309.9	348.9	463.8	565.7	584.1	563.5	574.4
545.1	80°	499.6	395.5	211.3	236.2	266.6	362.0	453.0	471.4	428.1	425.9
181.0	82.5°	174.5	160.4	134.4	157.1	172.3	259.0	342.4	366.3	318.6	317.5
81.3	85°	68.3	65.0	74.8	85.6	103.0	159.3	225.4	237.3	196.1	158.2
23.8	87.5°	14.1	15.2	18.4	19.5	31.4	55.3	81.3	99.7	79.1	67.2
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>
2336.4
2424.2
2552.1
2699.5
2867.4
3059.2
3295.5
3552.3
3692.1
3619.5
3424.4
3226.1
3052.7
2886.9
2708.1
2517.4
2348.3
2309.3
2205.3
2023.2
1730.6
1491.2
1409.9
1343.8
1309.1
1233.2
1145.5
1039.3
930.9
824.7
715.2
565.7
421.6
302.3
156.1
61.8
0.0

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