

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: P942402

Luminaire Tested: **GALN-SB6B-927-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942402
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-SB6B-927-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 90 CRI, 2700K, 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: 20604 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

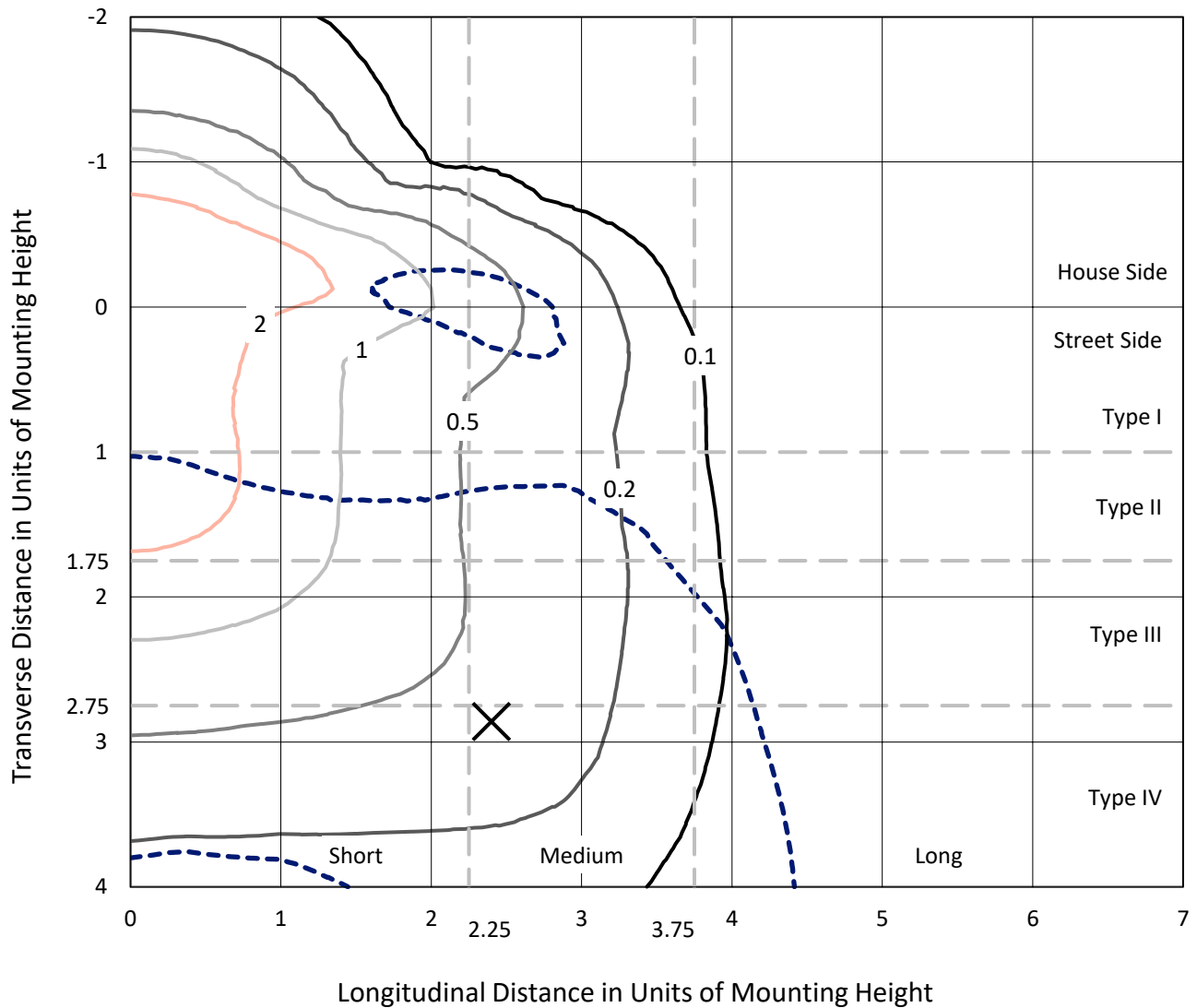
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

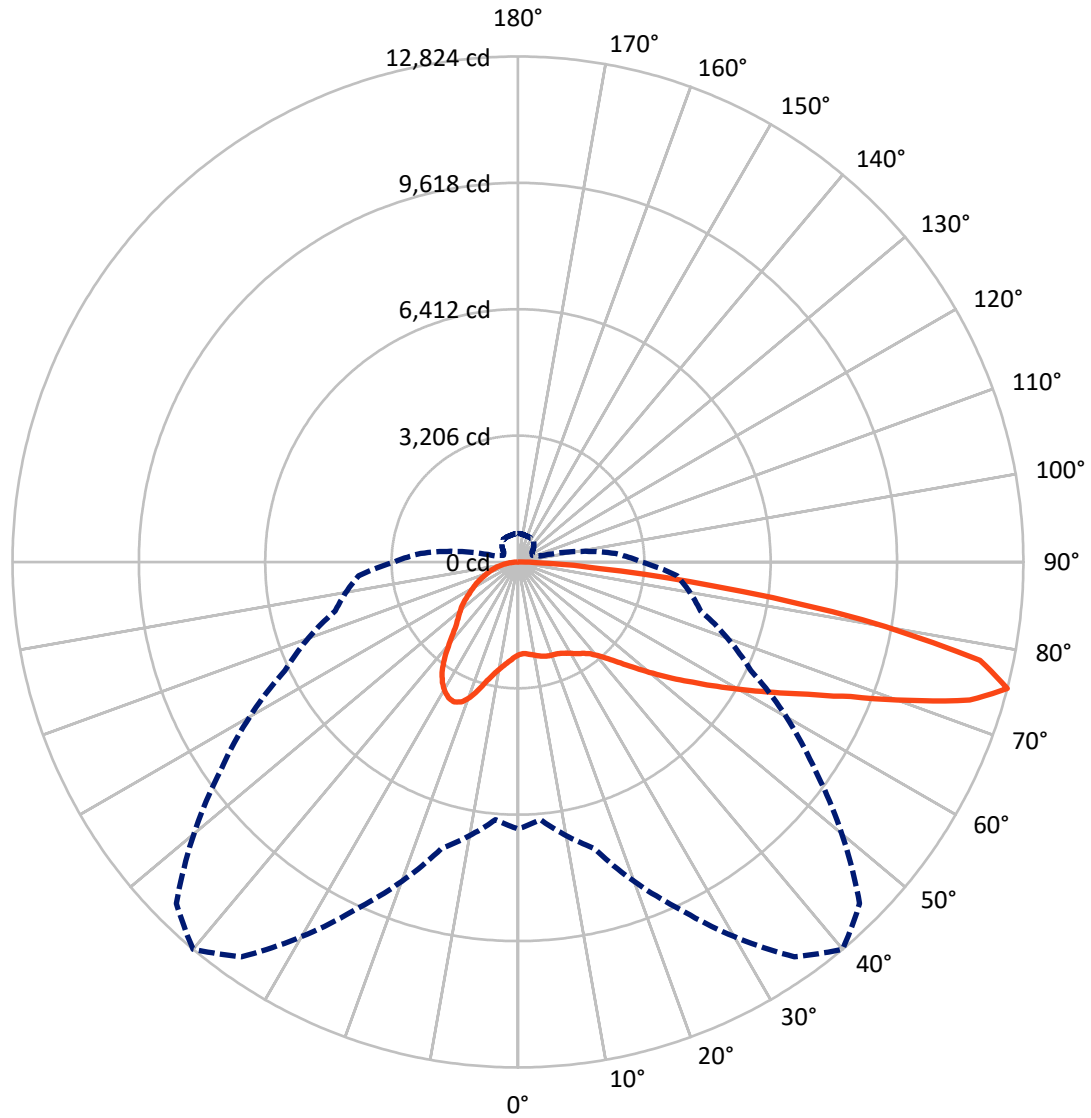
✕ Max cd
 - - - 1/2 Max cd



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	6383.8	0.0	6383.8
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	14220.2	0.0	14220.2
	% Fixture	69.0	0.0	69.0
Total	Lumens	20604.0	0.0	20604.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.2	1.1
10°-20°	789.6	3.8
20°-30°	1441.8	7.0
30°-40°	2044.8	9.9
40°-50°	2761.1	13.4
50°-60°	3714.5	18.0
60°-70°	4714.5	22.9
70°-80°	4278.7	20.8
80°-90°	623.7	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°	20604.0	100.0
0°-180°	20604.0	100.0

Coefficient of Utilization



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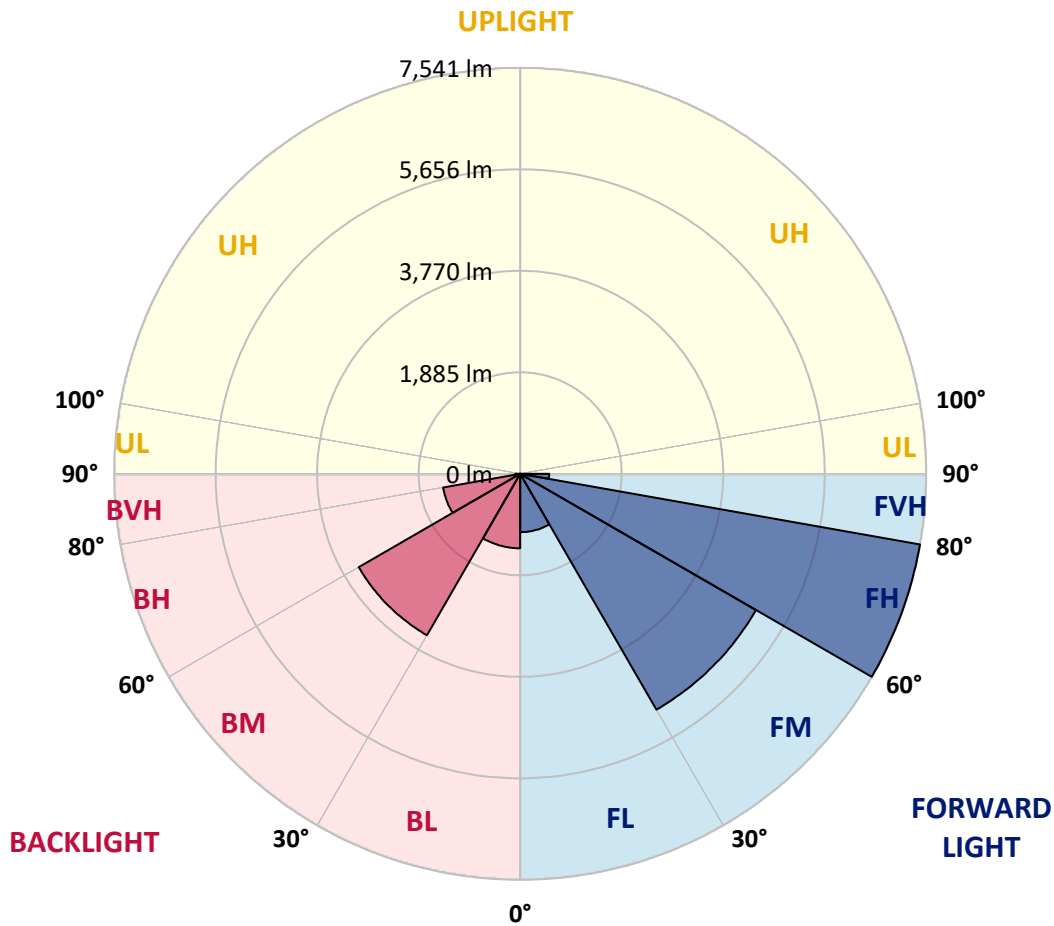
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1083.8	5.3			
FM (30°-60°)	5057.8	24.5			
FH (60°-80°)	7540.7	36.6			G4/12000
FVH (80°-90°)	537.8	2.6			G4/750
BL (0°-30°)	1382.8	6.7	B3/2500		
BM (30°-60°)	3462.6	16.8	B3/5000		
BH (60°-80°)	1452.5	7.0	B3/2500		G3/2500
BVH (80°-90°)	85.9	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°	2356.1	2356.1	2356.1	2356.1	2356.1	2356.1	2356.1	2356.1	2356.1	2356.1
2.5°	2320.0	2333.1	2329.9	2325.5	2325.5	2326.6	2325.5	2333.1	2340.8	2348.4
5°	2344.1	2357.2	2350.6	2345.2	2340.8	2339.7	2336.4	2335.3	2339.7	2349.5
7.5°	2391.1	2404.2	2394.3	2384.5	2375.8	2371.4	2367.0	2360.5	2357.2	2362.7
10°	2443.5	2456.6	2444.6	2427.1	2412.9	2407.5	2403.1	2396.5	2392.2	2395.4
12.5°	2496.0	2509.1	2492.7	2468.7	2450.1	2446.8	2441.3	2439.1	2438.1	2437.0
15°	2545.2	2556.1	2535.3	2506.9	2487.2	2481.8	2476.3	2479.6	2485.0	2491.6
17.5°	2583.4	2594.3	2563.7	2526.6	2508.0	2505.8	2502.5	2513.5	2528.8	2545.2
20°	2618.4	2629.3	2590.0	2539.7	2517.8	2517.8	2518.9	2541.9	2563.7	2587.8
22.5°	2667.5	2676.3	2628.2	2559.4	2527.7	2529.9	2538.6	2561.5	2588.9	2621.6
25°	2740.8	2747.3	2688.3	2596.5	2560.5	2567.0	2574.7	2585.6	2611.8	2650.1
27.5°	2858.8	2864.3	2786.7	2662.1	2607.4	2618.4	2629.3	2621.6	2633.7	2666.5
30°	3024.9	3028.2	2929.8	2764.8	2687.2	2692.7	2694.9	2663.2	2640.2	2666.5
32.5°	3221.6	3220.5	3103.6	2889.4	2777.9	2772.5	2753.9	2691.6	2638.0	2661.0
35°	3526.5	3514.5	3363.7	3064.2	2880.6	2846.8	2803.1	2723.3	2649.0	2655.5
37.5°	4031.4	3994.2	3785.5	3350.6	3033.6	2947.3	2882.8	2774.6	2673.0	2653.3
40°	4600.7	4553.7	4324.2	3742.9	3263.1	3124.3	3020.5	2847.9	2712.4	2663.2
42.5°	5276.1	5209.4	4962.4	4205.1	3553.8	3352.7	3196.5	2940.7	2770.3	2694.9
45°	6105.5	6017.0	5667.3	4726.4	3919.9	3652.2	3443.4	3081.7	2858.8	2756.1
47.5°	6943.7	6965.6	6468.3	5323.1	4359.2	4021.5	3752.7	3293.7	2987.7	2854.4
50°	7834.3	7849.6	7265.0	5984.2	4857.5	4439.0	4100.2	3530.9	3167.0	2994.3
52.5°	8529.4	8531.6	7988.4	6676.0	5376.6	4898.0	4475.1	3801.9	3374.6	3180.1
55°	8964.3	8958.8	8495.5	7330.6	5973.3	5379.9	4890.3	4110.1	3628.1	3398.6
57.5°	9280.1	9263.7	8845.2	7893.4	6609.3	5949.2	5360.2	4459.8	3927.6	3658.7
60°	9400.3	9390.5	9082.3	8379.7	7278.1	6578.7	5902.3	4851.0	4267.4	3965.8
62.5°	9446.2	9464.8	9315.1	8850.7	7993.9	7275.9	6497.8	5318.7	4649.9	4313.3
65°	9608.0	9641.8	9611.2	9467.0	8802.6	8092.2	7287.9	5874.9	5067.4	4686.0
67.5°	9928.2	9962.0	9975.2	10204.6	9790.5	9109.7	8273.7	6567.8	5555.8	5072.8
70°	9920.5	9910.7	10142.4	10791.5	11027.5	10518.3	9602.5	7420.2	6138.3	5394.1
72.5°	9029.9	8951.2	9498.7	10784.9	12057.0	11989.2	11225.3	8519.5	6641.0	5433.4
75°	6774.3	6564.5	7531.6	9719.4	12228.5	12824.1	12256.9	9201.4	6521.9	4800.7
77.5°	2897.0	2686.1	3825.9	7195.1	10944.5	11988.1	11310.6	8027.8	5206.1	3174.6
80°	758.4	757.3	1156.2	3262.0	7443.1	8852.8	7766.6	5184.3	2974.6	1134.3
82.5°	313.6	306.0	425.1	1268.8	3636.9	4967.9	4054.3	2312.4	1074.2	307.1
85°	116.9	115.8	206.5	438.2	1283.0	2049.0	1482.9	591.2	267.7	149.7
87.5°	32.8	31.7	44.8	151.9	312.5	474.3	253.5	97.3	75.4	59.0
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°
2356.1	0°	2356.1	2356.1	2356.1	2356.1	2356.1	2356.1	2356.1	2356.1	2356.1	2356.1
2360.5	2.5°	2363.7	2369.2	2379.0	2386.7	2396.5	2407.5	2422.8	2432.6	2442.4	2449.0
2365.9	5°	2373.6	2385.6	2410.7	2435.9	2465.4	2492.7	2524.4	2547.3	2565.9	2571.4
2385.6	7.5°	2395.4	2415.1	2457.7	2500.3	2547.3	2592.1	2638.0	2677.4	2709.1	2721.1
2420.6	10°	2433.7	2459.9	2520.0	2580.1	2642.4	2711.3	2770.3	2827.1	2871.9	2890.5
2462.1	12.5°	2481.8	2514.6	2593.2	2676.3	2762.6	2857.7	2934.2	3004.1	3059.9	3085.0
2520.0	15°	2544.1	2586.7	2687.2	2798.7	2925.4	3057.7	3154.9	3232.5	3294.8	3325.4
2580.1	17.5°	2611.8	2668.6	2795.4	2963.7	3145.1	3318.9	3432.5	3489.3	3553.8	3583.3
2635.9	20°	2677.4	2747.3	2928.7	3173.5	3415.0	3599.7	3691.5	3706.8	3711.2	3714.5
2688.3	22.5°	2745.1	2839.1	3095.9	3438.0	3697.0	3824.8	3837.9	3772.4	3680.6	3638.0
2739.7	25°	2819.4	2944.0	3314.5	3729.8	3939.6	3954.9	3854.3	3694.8	3521.0	3441.3
2781.2	27.5°	2891.6	3065.3	3576.8	4008.4	4114.4	3980.0	3763.6	3537.4	3327.6	3243.5
2810.7	30°	2963.7	3204.1	3866.4	4252.1	4194.2	3917.7	3620.5	3368.0	3157.1	3068.6
2836.9	32.5°	3036.9	3365.8	4199.7	4428.1	4180.0	3785.5	3442.3	3177.9	2992.1	2899.2
2859.9	35°	3120.0	3564.7	4515.5	4524.2	4084.9	3591.0	3207.4	2950.6	2788.8	2714.5
2887.2	37.5°	3228.2	3817.2	4794.2	4548.3	3918.8	3305.7	2915.6	2681.8	2548.4	2514.6
2927.6	40°	3362.6	4121.0	5007.2	4510.0	3672.9	2959.3	2596.5	2409.6	2334.2	2341.9
2982.3	42.5°	3537.4	4460.8	5157.0	4411.7	3330.9	2602.0	2316.8	2233.7	2269.8	2300.4
3064.2	45°	3764.7	4813.8	5249.9	4244.5	2944.0	2299.3	2151.7	2171.4	2198.7	2202.0
3196.5	47.5°	4055.4	5171.2	5311.0	3992.0	2549.5	2086.2	2046.8	2051.2	2045.7	2022.8
3394.3	50°	4418.2	5518.7	5365.7	3657.6	2214.0	1952.8	1900.4	1885.1	1809.7	1735.4
3657.6	52.5°	4831.3	5837.8	5388.6	3242.4	1952.8	1841.4	1756.1	1660.0	1519.0	1496.1
3988.8	55°	5290.3	6132.8	5329.6	2732.0	1733.2	1698.2	1569.3	1453.4	1438.1	1418.5
4424.8	57.5°	5838.9	6450.8	5209.4	2162.7	1508.1	1531.0	1405.4	1418.5	1391.1	1360.5
4985.4	60°	6438.8	6779.8	4998.5	1643.6	1275.3	1322.3	1362.7	1361.6	1354.0	1328.9
5576.6	62.5°	6978.7	6996.2	4583.2	1258.9	1071.0	1160.6	1270.9	1269.8	1263.3	1249.1
6194.0	65°	7300.0	6963.4	3890.4	991.2	902.7	1027.2	1146.4	1155.1	1156.2	1155.1
6658.5	67.5°	7243.1	6579.8	2939.7	789.0	763.9	891.7	1022.9	1034.9	1043.6	1045.8
6717.5	70°	6600.6	5737.2	1916.8	629.5	640.4	772.6	905.9	918.0	925.6	934.4
5829.0	72.5°	5144.9	4218.2	1097.2	509.2	532.2	669.9	790.1	804.3	808.7	825.1
4056.5	75°	3135.3	2480.7	592.3	401.1	437.1	572.6	675.4	691.7	699.4	719.1
1992.2	77.5°	1490.6	1074.2	337.7	312.5	351.9	467.7	570.4	589.0	568.3	579.2
549.7	80°	503.8	398.9	213.1	238.2	268.8	365.0	456.8	475.4	431.7	429.5
182.5	82.5°	175.9	161.7	135.5	158.5	173.8	261.2	345.3	369.4	321.3	320.2
82.0	85°	68.8	65.6	75.4	86.3	103.8	160.6	227.3	239.3	197.8	159.6
24.0	87.5°	14.2	15.3	18.6	19.7	31.7	55.7	82.0	100.5	79.8	67.8
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>
2356.1
2444.6
2573.6
2722.2
2891.6
3085.0
3323.2
3582.2
3723.2
3650.0
3453.3
3253.3
3078.4
2911.2
2730.9
2538.6
2368.1
2328.8
2223.9
2040.3
1745.2
1503.7
1421.7
1355.1
1320.1
1243.6
1155.1
1048.0
938.7
831.6
721.3
570.4
425.1
304.9
157.4
62.3
0.0

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