

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: P952158

Luminaire Tested: **GALN-SB6A-830-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P952158  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB6A-830-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

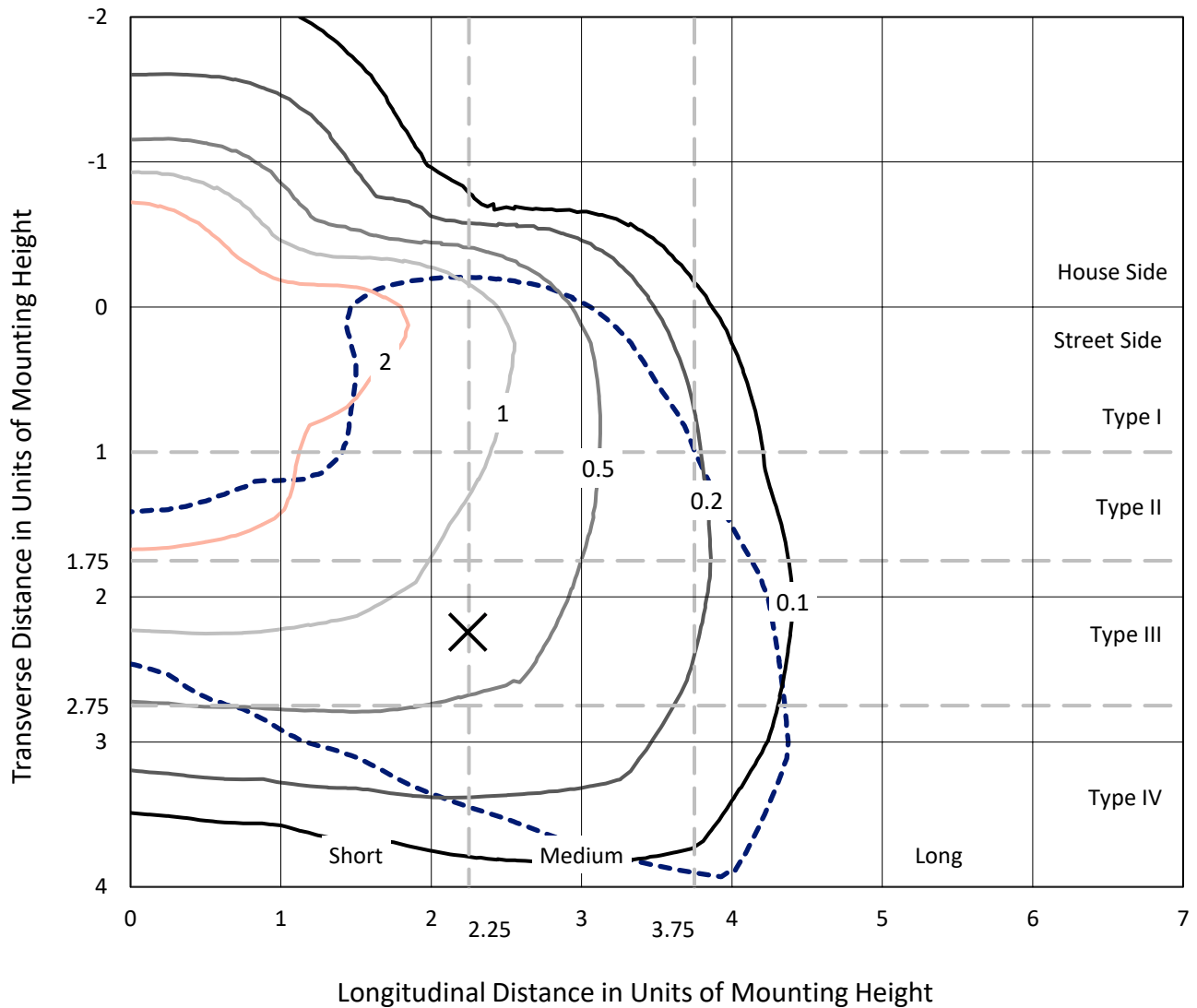
Lumens per Lamp: N/A  
Luminaire Lumens: 24395 lumens  
Efficiency: N/A  
Efficacy: 142.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 170.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

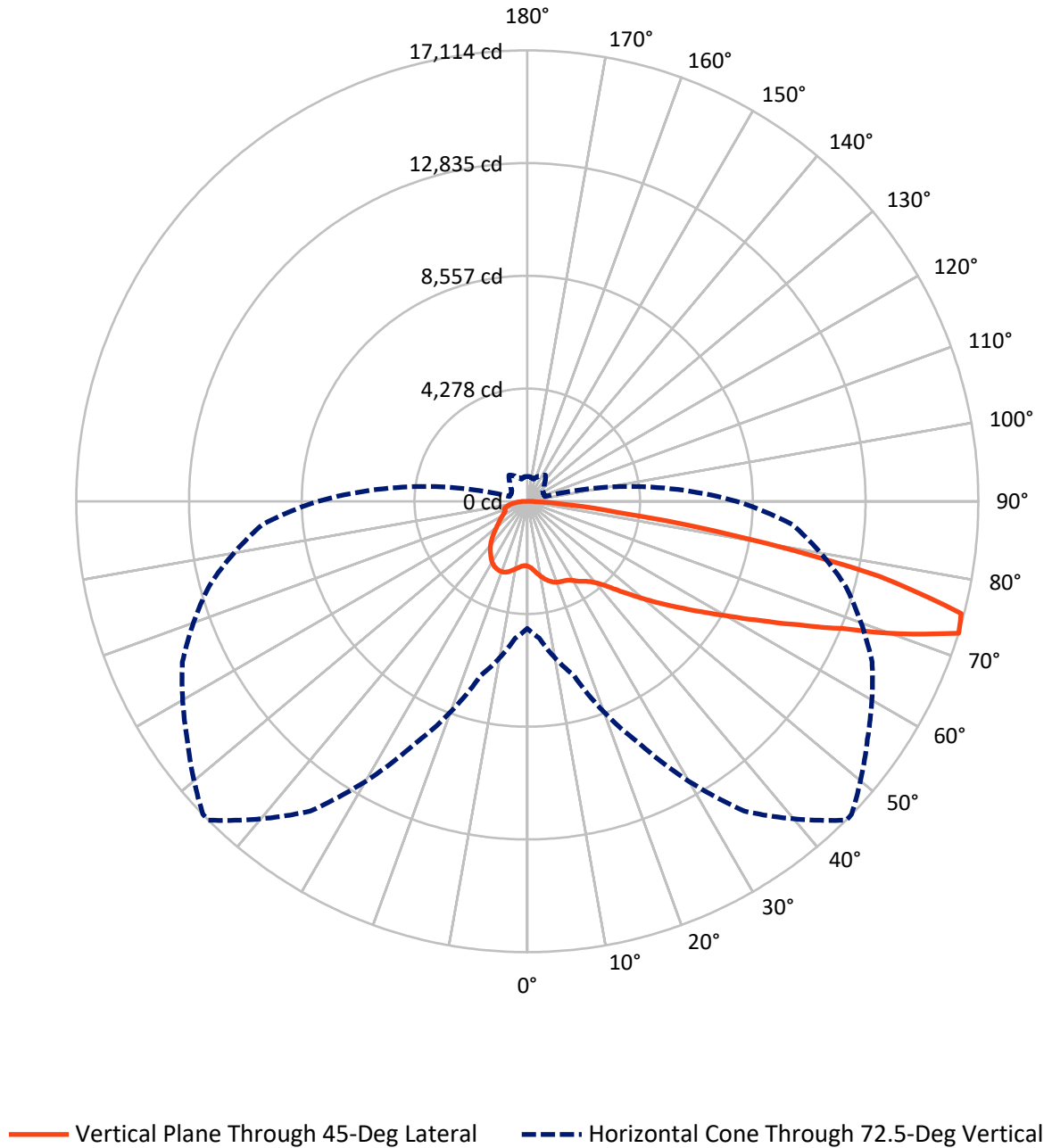
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5514.9	0.0	5514.9
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	18880.1	0.0	18880.1
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	24395.0	0.0	24395.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	250.5	1.0
10°-20°	835.1	3.4
20°-30°	1452.8	6.0
30°-40°	2082.6	8.5
40°-50°	2932.4	12.0
50°-60°	4491.6	18.4
60°-70°	6506.8	26.7
70°-80°	5196.0	21.3
80°-90°	647.1	2.7
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°	24395.0	100.0
0°-180°	24395.0	100.0



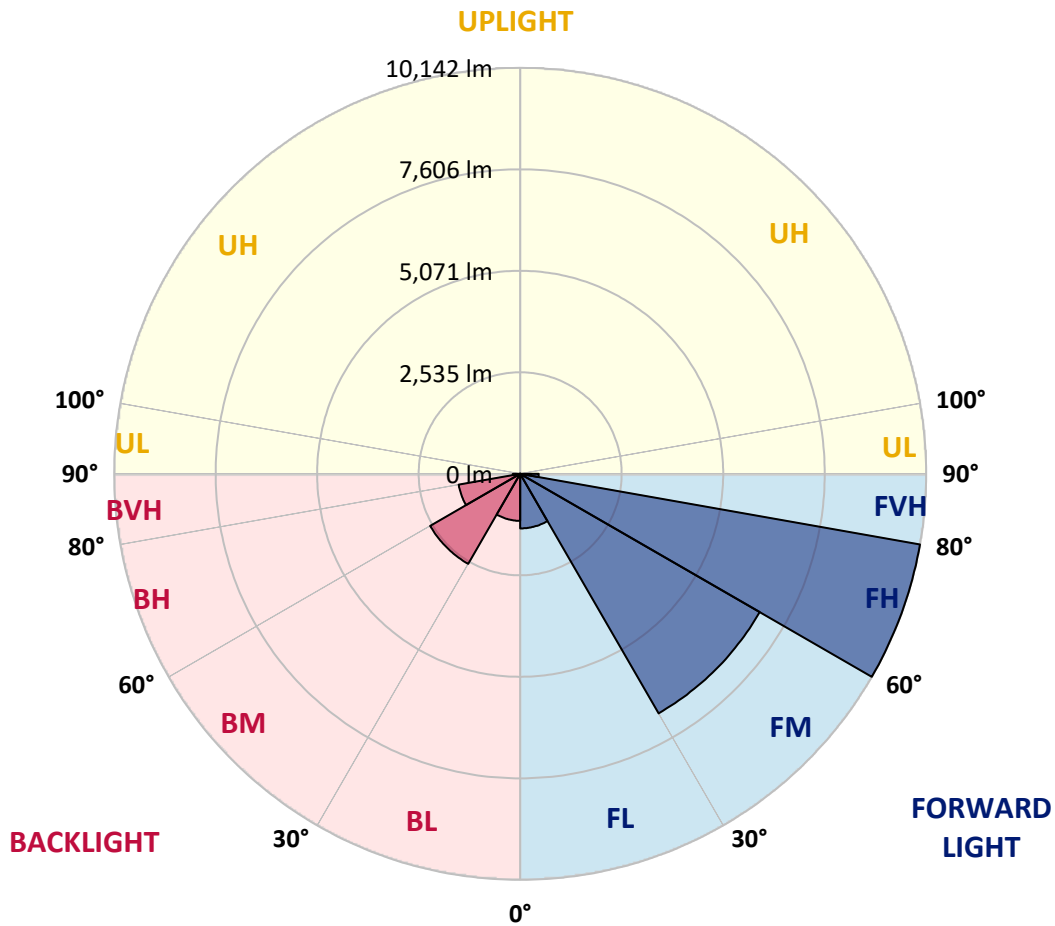
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1364.2	5.6			
FM (30°-60°)	6909.9	28.3			
FH (60°-80°)	10141.7	41.6			G4/12000
FVH (80°-90°)	464.3	1.9			G3/500
BL (0°-30°)	1174.2	4.8	B3/2500		
BM (30°-60°)	2596.7	10.6	B3/5000		
BH (60°-80°)	1561.1	6.4	B3/2500		G3/2500
BVH (80°-90°)	182.9	0.7			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°	45°	46°	55°	65°	75°
0°	2461.0	2461.0	2461.0	2461.0	2461.0	2461.0	2461.0	2461.0	2461.0	2461.0
2.5°	2557.4	2574.1	2558.6	2544.5	2538.1	2521.4	2520.1	2509.8	2503.4	2485.4
5°	2736.0	2757.8	2732.1	2703.9	2678.2	2637.0	2631.9	2602.3	2568.9	2530.4
7.5°	2937.8	2957.0	2927.5	2885.1	2840.1	2772.0	2770.7	2716.7	2664.0	2598.5
10°	3113.8	3139.5	3099.7	3041.8	2985.3	2908.2	2899.2	2837.5	2770.7	2685.9
12.5°	3269.3	3287.3	3248.8	3178.1	3112.5	3035.4	3023.9	2955.7	2881.2	2784.8
15°	3392.7	3415.8	3364.4	3288.6	3219.2	3143.4	3133.1	3071.4	2996.9	2895.3
17.5°	3473.6	3492.9	3440.2	3355.4	3288.6	3225.6	3217.9	3166.5	3101.0	2998.2
20°	3504.5	3525.0	3469.8	3383.7	3322.0	3273.2	3269.3	3232.0	3187.1	3093.3
22.5°	3535.3	3554.6	3482.6	3392.7	3338.7	3307.9	3306.6	3282.2	3264.2	3187.1
25°	3660.0	3665.1	3568.7	3438.9	3361.8	3334.9	3333.6	3332.3	3340.0	3279.6
27.5°	3767.9	3766.6	3684.4	3562.3	3442.8	3386.3	3385.0	3397.8	3422.2	3372.1
30°	3926.0	3911.9	3814.2	3687.0	3577.7	3490.4	3482.6	3471.1	3490.4	3450.5
32.5°	4261.4	4216.4	4058.4	3832.2	3689.5	3622.7	3612.4	3540.5	3548.2	3523.8
35°	4742.0	4682.9	4472.2	4107.2	3828.3	3733.2	3728.1	3636.9	3621.4	3599.6
37.5°	5313.9	5240.7	4995.2	4505.6	4067.4	3861.7	3854.0	3771.8	3708.8	3685.7
40°	5888.4	5795.8	5592.8	4991.4	4419.5	4076.4	4051.9	3927.3	3855.3	3816.8
42.5°	6446.1	6369.0	6195.5	5536.2	4853.9	4389.9	4336.0	4122.6	4068.7	4032.7
45°	6939.6	6870.2	6743.0	6118.4	5362.8	4816.6	4763.9	4415.6	4398.9	4398.9
47.5°	7340.5	7325.1	7190.2	6712.1	5962.9	5302.4	5211.1	4823.0	4868.0	4937.4
50°	7785.2	7742.8	7598.8	7296.8	6668.4	5858.8	5784.3	5322.9	5491.3	5681.5
52.5°	8193.8	8217.0	8056.3	7906.0	7465.2	6479.5	6348.4	5912.8	6276.5	6591.3
55°	8614.1	8615.4	8570.4	8549.8	8300.5	7165.8	7021.8	6622.2	7200.5	7591.1
57.5°	9008.6	9011.2	9078.0	9259.2	9269.5	7957.4	7794.2	7493.5	8227.3	8625.6
60°	9360.7	9378.7	9561.2	9985.3	10121.5	8864.7	8710.5	8522.8	9288.8	9689.7
62.5°	9479.0	9544.5	9950.6	10553.3	10963.3	9977.6	9825.9	9714.1	10404.2	10776.9
65°	9278.5	9428.8	10214.0	11022.4	11829.4	11299.9	11149.6	11027.5	11563.4	11914.2
67.5°	8786.3	8980.3	10198.6	11514.6	12880.6	12890.9	12750.8	12464.3	12806.1	12941.0
70°	7489.6	7780.0	9300.3	11698.3	14087.3	15066.6	14931.7	14194.0	14046.2	13393.4
72.5°	4825.6	5216.3	6848.3	10185.8	14355.9	17113.8	17106.1	15755.4	14438.2	12514.4
75°	1760.6	1999.6	3181.9	6393.4	12050.5	17009.7	17059.8	15488.1	13180.1	9666.6
77.5°	641.3	701.7	1038.4	2457.1	7411.2	13647.8	13751.9	12382.0	9381.3	4851.3
80°	336.7	370.1	532.0	953.5	3175.5	8105.2	8268.4	7358.5	4409.2	1461.2
82.5°	186.3	201.8	298.1	517.9	1430.3	3465.9	3563.6	2906.9	1551.1	619.4
85°	100.2	106.7	140.1	282.7	699.1	1201.6	1228.6	868.7	618.1	363.7
87.5°	29.6	36.0	46.3	90.0	273.7	269.9	276.3	172.2	244.2	183.8
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°
2461.0	0°	2461.0	2461.0	2461.0	2461.0	2461.0	2461.0	2461.0	2461.0	2461.0	2461.0
2480.3	2.5°	2472.5	2468.7	2454.6	2448.1	2440.4	2439.1	2445.6	2446.8	2448.1	2449.4
2508.5	5°	2495.7	2482.8	2470.0	2462.3	2464.8	2466.1	2479.0	2488.0	2494.4	2499.5
2561.2	7.5°	2540.7	2530.4	2508.5	2507.2	2511.1	2522.7	2539.4	2559.9	2571.5	2580.5
2629.3	10°	2607.5	2588.2	2562.5	2566.4	2574.1	2590.8	2625.5	2642.2	2661.5	2678.2
2712.9	12.5°	2675.6	2658.9	2629.3	2631.9	2644.8	2674.3	2707.7	2728.3	2741.1	2754.0
2802.8	15°	2764.3	2734.7	2702.6	2702.6	2725.7	2757.8	2773.3	2790.0	2797.7	2811.8
2899.2	17.5°	2855.5	2817.0	2774.5	2772.0	2800.2	2815.7	2824.7	2827.2	2829.8	2845.2
2993.0	20°	2946.8	2904.3	2843.9	2838.8	2845.2	2842.7	2841.4	2838.8	2842.7	2861.9
3089.4	22.5°	3036.7	2987.9	2904.3	2881.2	2863.2	2838.8	2837.5	2836.2	2838.8	2858.1
3193.5	25°	3142.1	3083.0	2971.2	2901.8	2841.4	2808.0	2811.8	2813.1	2815.7	2831.1
3301.4	27.5°	3256.5	3190.9	3032.9	2895.3	2786.1	2763.0	2756.6	2760.4	2769.4	2793.8
3409.4	30°	3370.8	3293.7	3089.4	2869.6	2716.7	2684.6	2664.0	2673.0	2701.3	2725.7
3503.2	32.5°	3474.9	3397.8	3134.4	2813.1	2628.0	2577.9	2550.9	2562.5	2590.8	2599.8
3607.3	35°	3597.0	3509.6	3153.7	2723.1	2531.7	2454.6	2418.6	2401.9	2416.0	2407.0
3729.4	37.5°	3733.2	3642.0	3151.1	2604.9	2418.6	2329.9	2279.8	2216.8	2187.3	2156.4
3909.3	40°	3935.0	3803.9	3120.2	2462.3	2278.5	2197.5	2107.6	2000.9	1934.1	1873.7
4199.7	42.5°	4210.0	4028.8	3063.7	2305.5	2120.4	2044.6	1922.5	1797.9	1692.5	1592.2
4640.5	45°	4620.0	4323.1	2993.0	2138.4	1949.5	1875.0	1742.6	1602.5	1483.0	1354.5
5266.4	47.5°	5211.1	4718.9	2926.2	1948.2	1769.6	1701.5	1582.0	1452.2	1310.8	1186.2
6171.1	50°	6023.3	5286.9	2864.5	1763.2	1592.2	1540.8	1445.7	1313.4	1170.7	1070.5
7231.3	52.5°	7056.5	6059.3	2838.8	1584.5	1426.5	1407.2	1331.4	1208.0	1073.1	988.2
8467.6	55°	8242.7	6983.3	2838.8	1413.6	1281.3	1287.7	1235.0	1120.6	1003.7	927.8
9742.4	57.5°	9453.3	7918.8	2787.4	1255.5	1157.9	1184.9	1151.5	1051.2	945.8	867.4
11082.8	60°	10568.7	8702.7	2579.2	1111.6	1048.6	1091.1	1069.2	983.1	854.6	789.1
12203.4	62.5°	11425.9	9144.8	2178.3	997.2	958.7	1007.5	996.0	893.1	837.9	810.9
13123.5	65°	11855.1	9072.9	1665.5	895.7	882.9	958.7	934.3	930.4	886.7	855.9
13422.9	67.5°	11591.7	8453.4	1208.0	821.2	839.2	913.7	1007.5	1022.9	942.0	881.6
12579.9	70°	10436.4	7332.8	899.6	750.5	783.9	915.0	1148.9	1070.5	924.0	853.3
10089.4	72.5°	7939.4	5468.1	697.8	676.0	711.9	921.4	1211.9	1048.6	872.6	943.3
6285.5	75°	4540.3	3002.0	560.3	584.7	622.0	861.0	1179.7	992.1	832.7	866.2
2490.5	77.5°	1731.0	1154.0	462.6	494.8	499.9	751.8	1128.3	988.2	792.9	773.6
746.6	80°	600.1	451.1	383.0	393.2	386.8	668.3	1082.1	859.7	649.0	580.9
308.4	82.5°	245.5	224.9	303.3	290.4	275.0	519.2	873.9	703.0	530.7	469.1
149.1	85°	106.7	142.6	200.5	176.1	159.4	359.8	700.4	595.0	448.5	386.8
48.8	87.5°	21.8	54.0	84.8	79.7	82.2	240.3	497.3	422.8	317.4	237.7
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>
2461.0
2454.6
2502.1
2583.1
2674.3
2759.1
2817.0
2850.4
2869.6
2870.9
2851.7
2818.2
2752.7
2631.9
2435.3
2175.7
1877.5
1583.3
1339.1
1172.0
1064.1
981.8
920.1
854.6
778.8
801.9
845.6
871.3
841.7
935.6
866.2
705.5
561.6
463.9
385.5
186.3
0.0

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