

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: P952221

Luminaire Tested: **GALN-SB6A-850-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952221
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-850-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25968 lumens
Efficiency: N/A
Efficacy: 151.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

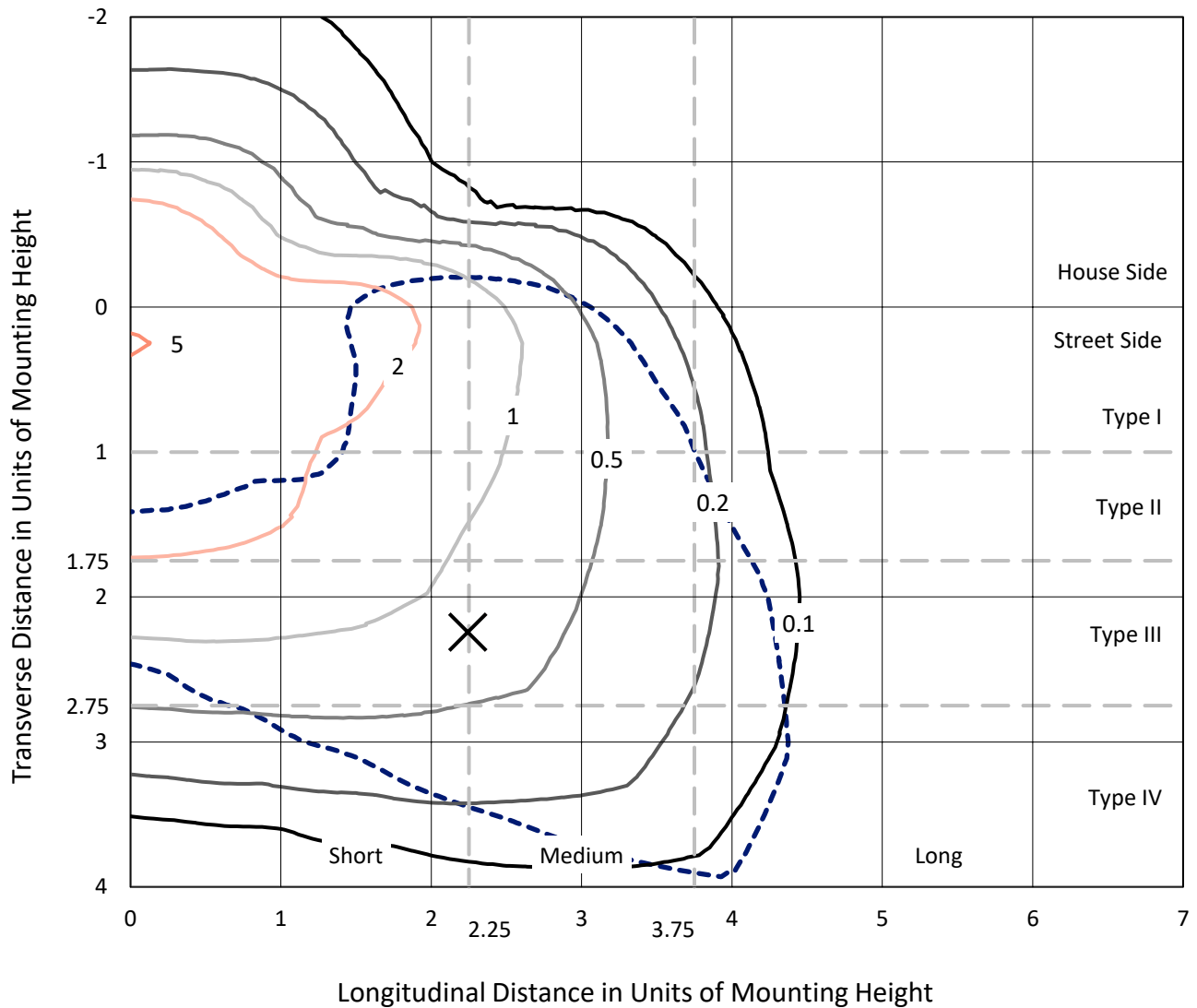
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

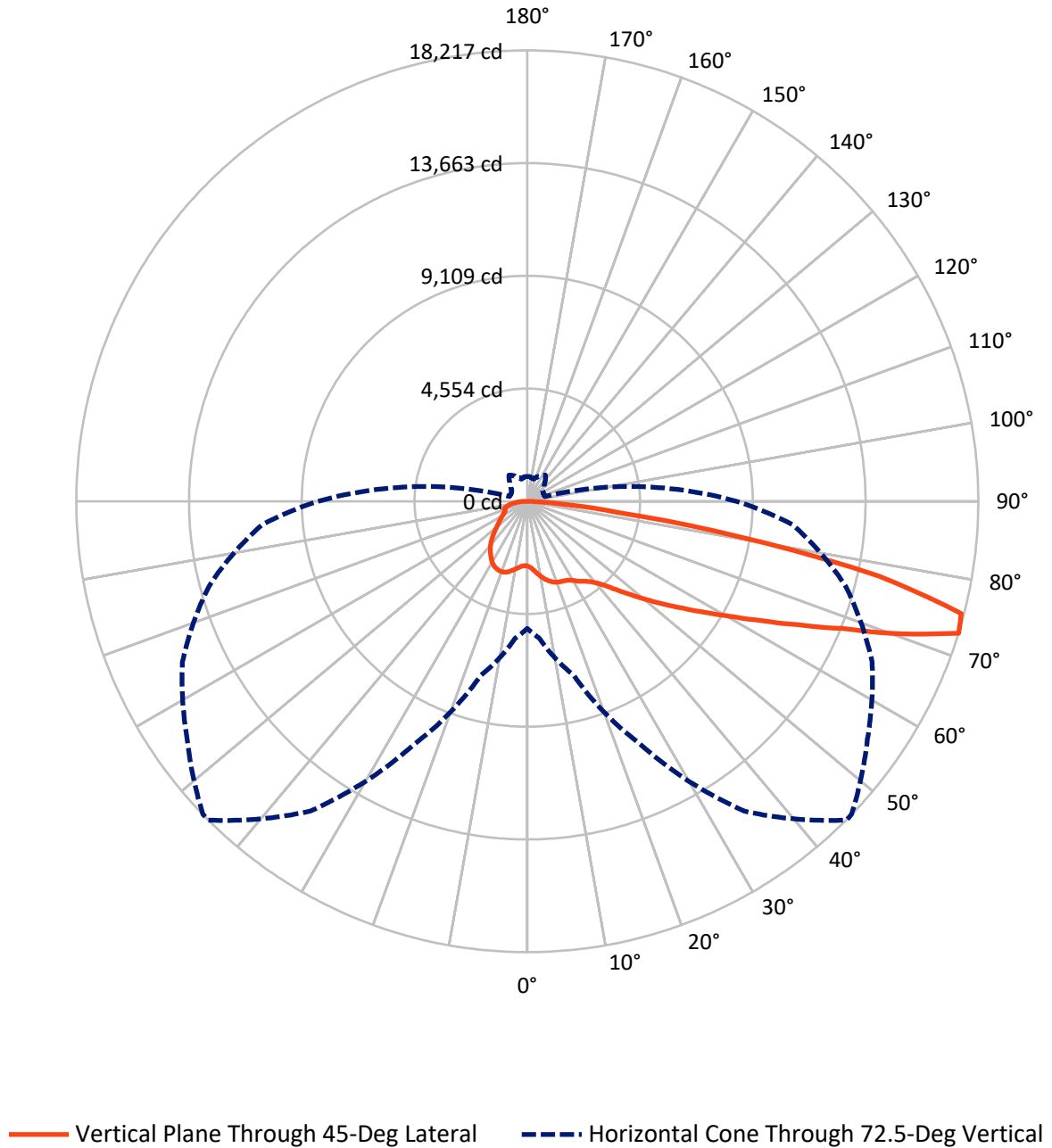
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5870.5	0.0	5870.5
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	20097.5	0.0	20097.5
	% Fixture	77.4	0.0	77.4
Total	Lumens	25968.0	0.0	25968.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.6	1.0
10°-20°	889.0	3.4
20°-30°	1546.4	6.0
30°-40°	2216.9	8.5
40°-50°	3121.5	12.0
50°-60°	4781.2	18.4
60°-70°	6926.3	26.7
70°-80°	5531.1	21.3
80°-90°	688.9	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°	25968.0	100.0
0°-180°	25968.0	100.0



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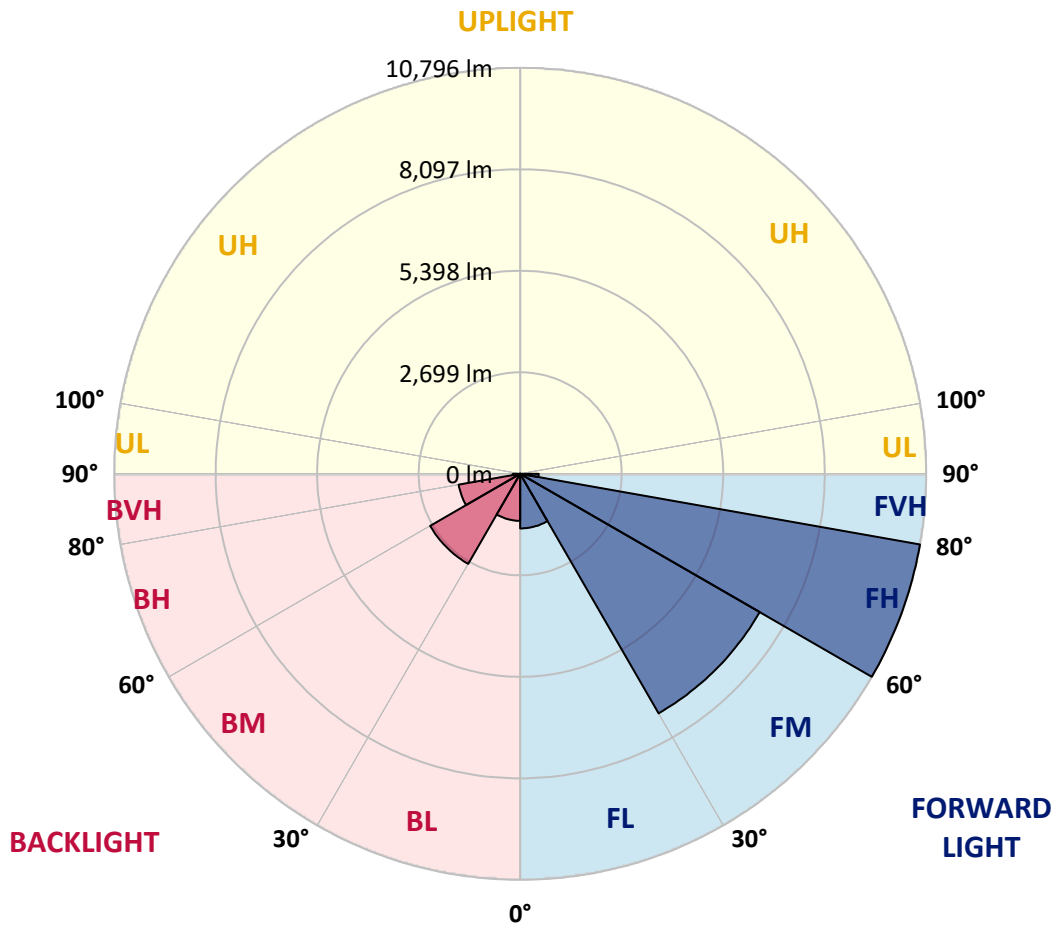
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1452.2	5.6			
FM (30°-60°)	7355.5	28.3			
FH (60°-80°)	10795.7	41.6			G4/12000
FVH (80°-90°)	494.2	1.9			G3/500
BL (0°-30°)	1249.9	4.8	B3/2500		
BM (30°-60°)	2764.2	10.6	B3/5000		
BH (60°-80°)	1661.8	6.4	B3/2500		G3/2500
BVH (80°-90°)	194.7	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°	2619.7	2619.7	2619.7	2619.7	2619.7	2619.7	2619.7	2619.7	2619.7	2619.7
2.5°	2722.3	2740.0	2723.6	2708.6	2701.7	2684.0	2682.6	2671.6	2664.8	2645.7
5°	2912.4	2935.7	2908.3	2878.2	2850.9	2807.1	2801.6	2770.1	2734.6	2693.5
7.5°	3127.2	3147.7	3116.2	3071.1	3023.2	2950.7	2949.3	2891.9	2835.8	2766.0
10°	3314.6	3342.0	3299.5	3238.0	3177.8	3095.7	3086.1	3020.5	2949.3	2859.1
12.5°	3480.1	3499.3	3458.2	3383.0	3313.2	3231.1	3218.8	3146.3	3067.0	2964.4
15°	3611.4	3636.1	3581.3	3500.6	3426.8	3346.1	3335.1	3269.5	3190.1	3082.0
17.5°	3697.6	3718.1	3662.1	3571.8	3500.6	3433.6	3425.4	3370.7	3300.9	3191.5
20°	3730.5	3752.3	3693.5	3601.9	3536.2	3484.2	3480.1	3440.4	3392.6	3292.7
22.5°	3763.3	3783.8	3707.2	3611.4	3554.0	3521.2	3519.8	3493.8	3474.6	3392.6
25°	3896.0	3901.5	3798.9	3660.7	3578.6	3549.9	3548.5	3547.2	3555.4	3491.1
27.5°	4010.9	4009.5	3922.0	3792.0	3664.8	3604.6	3603.2	3616.9	3642.9	3589.6
30°	4179.2	4164.1	4060.1	3924.7	3808.4	3715.4	3707.2	3694.9	3715.4	3673.0
32.5°	4536.2	4488.3	4320.1	4079.3	3927.4	3856.3	3845.4	3768.8	3777.0	3751.0
35°	5047.8	4984.9	4760.5	4372.0	4075.2	3974.0	3968.5	3871.4	3854.9	3831.7
37.5°	5656.6	5578.6	5317.3	4796.1	4329.6	4110.8	4102.5	4015.0	3948.0	3923.3
40°	6268.0	6169.6	5953.4	5313.2	4704.5	4339.2	4313.2	4180.5	4103.9	4062.9
42.5°	6861.7	6779.7	6595.0	5893.2	5166.8	4673.0	4615.5	4388.5	4331.0	4292.7
45°	7387.0	7313.2	7177.7	6512.9	5708.5	5127.2	5071.1	4700.4	4682.6	4682.6
47.5°	7813.9	7797.4	7653.8	7144.9	6347.4	5644.3	5547.1	5134.0	5181.9	5255.7
50°	8287.2	8242.0	8088.8	7767.3	7098.4	6236.6	6157.2	5666.1	5845.3	6047.8
52.5°	8722.2	8746.8	8575.8	8415.8	7946.5	6897.3	6757.8	6294.0	6681.2	7016.3
55°	9169.5	9170.9	9123.0	9101.1	8835.7	7627.8	7474.6	7049.2	7664.7	8080.6
57.5°	9589.5	9592.2	9663.4	9856.2	9867.2	8470.5	8296.7	7976.6	8757.8	9181.8
60°	9964.3	9983.5	10177.7	10629.1	10774.1	9436.3	9272.1	9072.4	9887.7	10314.5
62.5°	10090.2	10159.9	10592.2	11233.8	11670.2	10620.9	10459.5	10340.5	11075.1	11471.8
65°	9876.8	10036.8	10872.6	11733.1	12592.2	12028.6	11868.5	11738.6	12309.0	12682.5
67.5°	9352.8	9559.4	10856.2	12257.0	13711.2	13722.1	13573.0	13268.0	13631.8	13775.5
70°	7972.5	8281.7	9900.0	12452.6	14995.7	16038.1	15894.5	15109.2	14951.9	14257.0
72.5°	5136.7	5552.6	7289.9	10842.5	15281.6	18217.3	18209.1	16771.3	15369.2	13321.3
75°	1874.1	2128.6	3387.1	6805.7	12827.5	18106.5	18159.8	16486.8	14029.9	10289.9
77.5°	682.6	746.9	1105.3	2615.6	7889.1	14527.9	14638.7	13180.4	9986.2	5164.1
80°	358.4	394.0	566.3	1015.0	3380.3	8627.8	8801.5	7833.0	4693.5	1555.4
82.5°	198.4	214.8	317.4	551.3	1522.6	3689.4	3793.4	3094.4	1651.1	659.4
85°	106.7	113.5	149.1	301.0	744.2	1279.1	1307.8	924.7	658.0	387.1
87.5°	31.5	38.3	49.2	95.8	291.4	287.3	294.1	183.3	259.9	195.6
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°
2619.7	0°	2619.7	2619.7	2619.7	2619.7	2619.7	2619.7	2619.7	2619.7	2619.7	2619.7
2640.2	2.5°	2632.0	2627.9	2612.8	2606.0	2597.8	2596.4	2603.3	2604.6	2606.0	2607.4
2670.3	5°	2656.6	2642.9	2629.2	2621.0	2623.8	2625.1	2638.8	2648.4	2655.2	2660.7
2726.4	7.5°	2704.5	2693.5	2670.3	2668.9	2673.0	2685.3	2703.1	2725.0	2737.3	2746.9
2798.9	10°	2775.6	2755.1	2727.7	2731.8	2740.0	2757.8	2794.8	2812.5	2833.1	2850.9
2887.8	12.5°	2848.1	2830.3	2798.9	2801.6	2815.3	2846.7	2882.3	2904.2	2917.9	2931.6
2983.5	15°	2942.5	2911.0	2876.8	2876.8	2901.5	2935.7	2952.1	2969.9	2978.1	2993.1
3086.1	17.5°	3039.6	2998.6	2953.5	2950.7	2980.8	2997.2	3006.8	3009.5	3012.3	3028.7
3186.0	20°	3136.8	3091.6	3027.3	3021.8	3028.7	3026.0	3024.6	3021.8	3026.0	3046.5
3288.6	22.5°	3232.5	3180.5	3091.6	3067.0	3047.8	3021.8	3020.5	3019.1	3021.8	3042.4
3399.4	25°	3344.7	3281.8	3162.8	3088.9	3024.6	2989.0	2993.1	2994.5	2997.2	3013.6
3514.3	27.5°	3466.4	3396.7	3228.4	3082.0	2965.8	2941.1	2934.3	2938.4	2948.0	2974.0
3629.2	30°	3588.2	3506.1	3288.6	3054.7	2891.9	2857.7	2835.8	2845.4	2875.5	2901.5
3729.1	32.5°	3699.0	3616.9	3336.5	2994.5	2797.5	2744.2	2715.4	2727.7	2757.8	2767.4
3839.9	35°	3829.0	3735.9	3357.0	2898.7	2694.9	2612.8	2574.5	2556.7	2571.8	2562.2
3969.9	37.5°	3974.0	3876.8	3354.3	2772.9	2574.5	2480.1	2426.8	2359.8	2328.3	2295.5
4161.4	40°	4188.7	4049.2	3321.4	2621.0	2425.4	2339.2	2243.5	2129.9	2058.8	1994.5
4470.5	42.5°	4481.5	4288.6	3261.2	2454.1	2257.2	2176.4	2046.5	1913.8	1801.6	1694.9
4939.7	45°	4917.9	4601.9	3186.0	2276.3	2075.2	1995.9	1855.0	1705.9	1578.6	1441.8
5605.9	47.5°	5547.1	5023.2	3114.9	2073.8	1883.7	1811.2	1684.0	1545.8	1395.3	1262.6
6569.0	50°	6411.7	5627.8	3049.2	1876.9	1694.9	1640.2	1539.0	1398.1	1246.2	1139.5
7697.6	52.5°	7511.5	6450.0	3021.8	1686.7	1518.4	1497.9	1417.2	1285.9	1142.3	1052.0
9013.6	55°	8774.2	7433.6	3021.8	1504.8	1363.9	1370.7	1314.6	1192.9	1068.4	987.7
10370.6	57.5°	10062.8	8429.4	2967.1	1336.5	1232.5	1261.3	1225.7	1119.0	1006.8	923.4
11797.4	60°	11250.2	9263.9	2745.5	1183.3	1116.3	1161.4	1138.2	1046.5	909.7	839.9
12990.3	62.5°	12162.6	9734.5	2318.7	1061.5	1020.5	1072.5	1060.2	950.7	891.9	863.2
13969.7	65°	12619.5	9657.9	1772.9	953.5	939.8	1020.5	994.5	990.4	943.9	911.1
14288.5	67.5°	12339.1	8998.5	1285.9	874.1	893.3	972.6	1072.5	1088.9	1002.7	938.4
13391.1	70°	11109.3	7805.6	957.6	798.9	834.5	974.0	1223.0	1139.5	983.6	908.3
10739.9	72.5°	8451.3	5820.7	742.8	719.6	757.9	980.8	1290.0	1116.3	928.9	1004.1
6690.7	75°	4833.0	3195.6	596.4	622.4	662.1	916.5	1255.8	1056.1	886.4	922.0
2651.1	77.5°	1842.7	1228.4	492.5	526.7	532.1	800.3	1201.1	1052.0	844.0	823.5
794.8	80°	638.8	480.2	407.7	418.6	411.8	711.3	1151.8	915.2	690.8	618.3
328.3	82.5°	261.3	239.4	322.8	309.2	292.7	552.7	930.2	748.3	565.0	499.3
158.7	85°	113.5	151.8	213.4	187.4	169.6	383.0	745.5	633.4	477.4	411.8
52.0	87.5°	23.3	57.5	90.3	84.8	87.6	255.8	529.4	450.1	337.9	253.1
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>
2619.7
2612.8
2663.4
2749.6
2846.7
2937.0
2998.6
3034.2
3054.7
3056.0
3035.5
3000.0
2930.2
2801.6
2592.3
2316.0
1998.6
1685.3
1425.4
1247.6
1132.7
1045.1
979.5
909.7
829.0
853.6
900.1
927.5
896.0
995.9
922.0
751.0
597.8
493.8
410.4
198.4
0.0

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