

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: P955161

Luminaire Tested: **GALN-SB8A-940-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955161  
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-SB8A-940-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

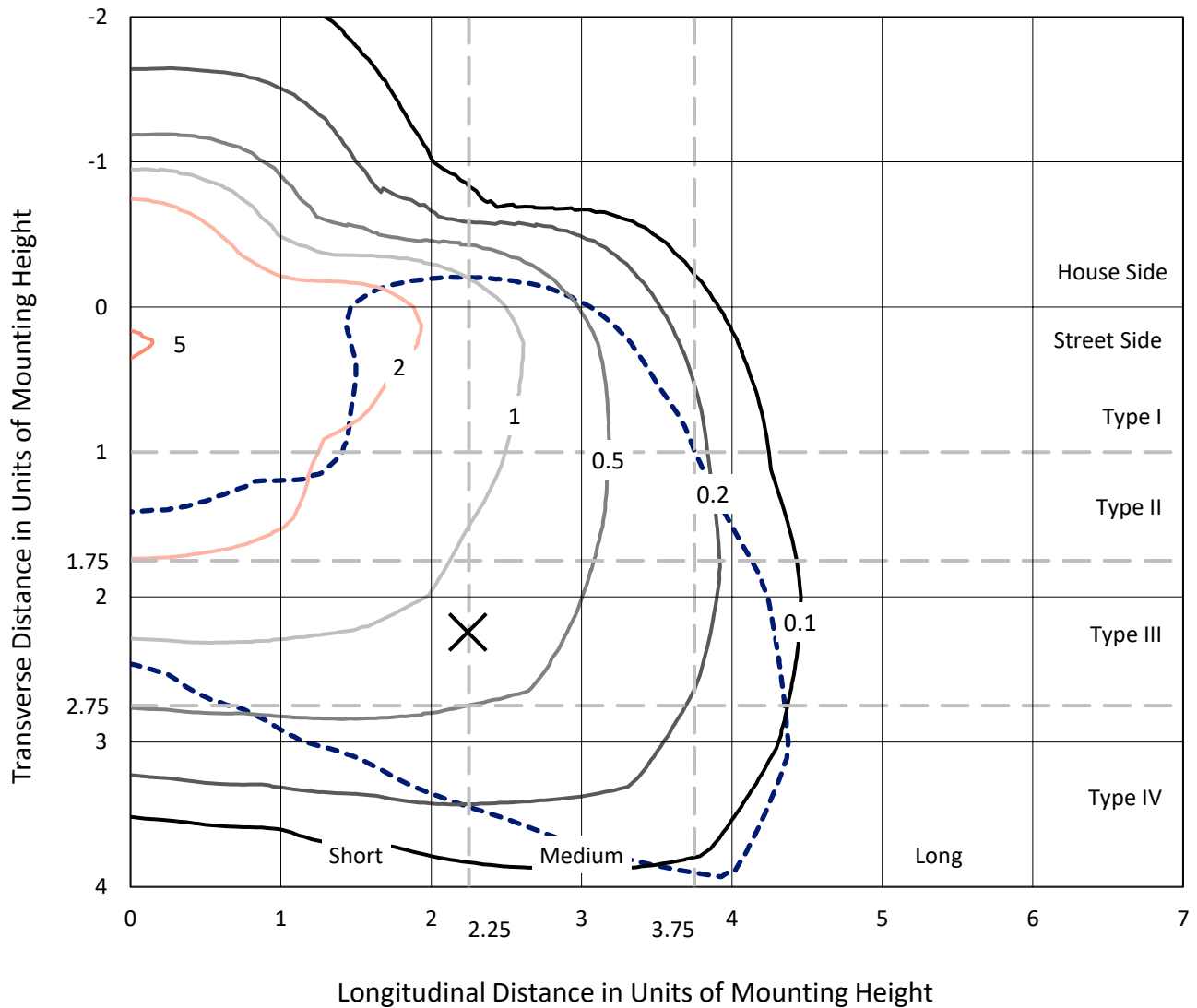
Lumens per Lamp: N/A  
Luminaire Lumens: 26233 lumens  
Efficiency: N/A  
Efficacy: 115.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 227.1  
Input Voltage (V): NR  
Input Current (Ain): 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

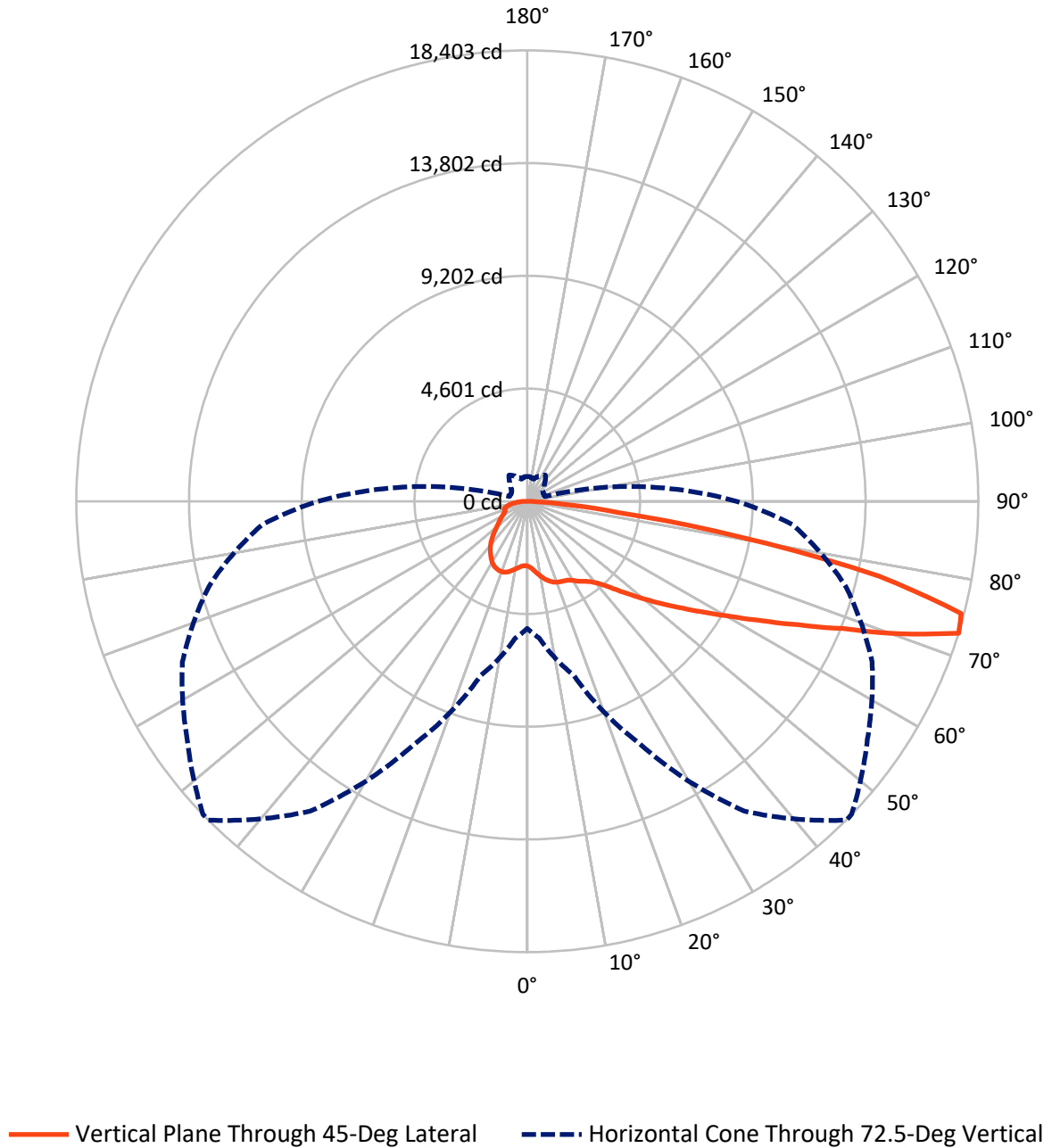
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	5930.4	0.0	5930.4
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	20302.6	0.0	20302.6
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	26233.0	0.0	26233.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	269.3	1.0
10°-20°	898.0	3.4
20°-30°	1562.2	6.0
30°-40°	2239.5	8.5
40°-50°	3153.4	12.0
50°-60°	4830.0	18.4
60°-70°	6997.0	26.7
70°-80°	5587.5	21.3
80°-90°	695.9	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°	26233.0	100.0
0°-180°	26233.0	100.0

**Coefficient of Utilization**



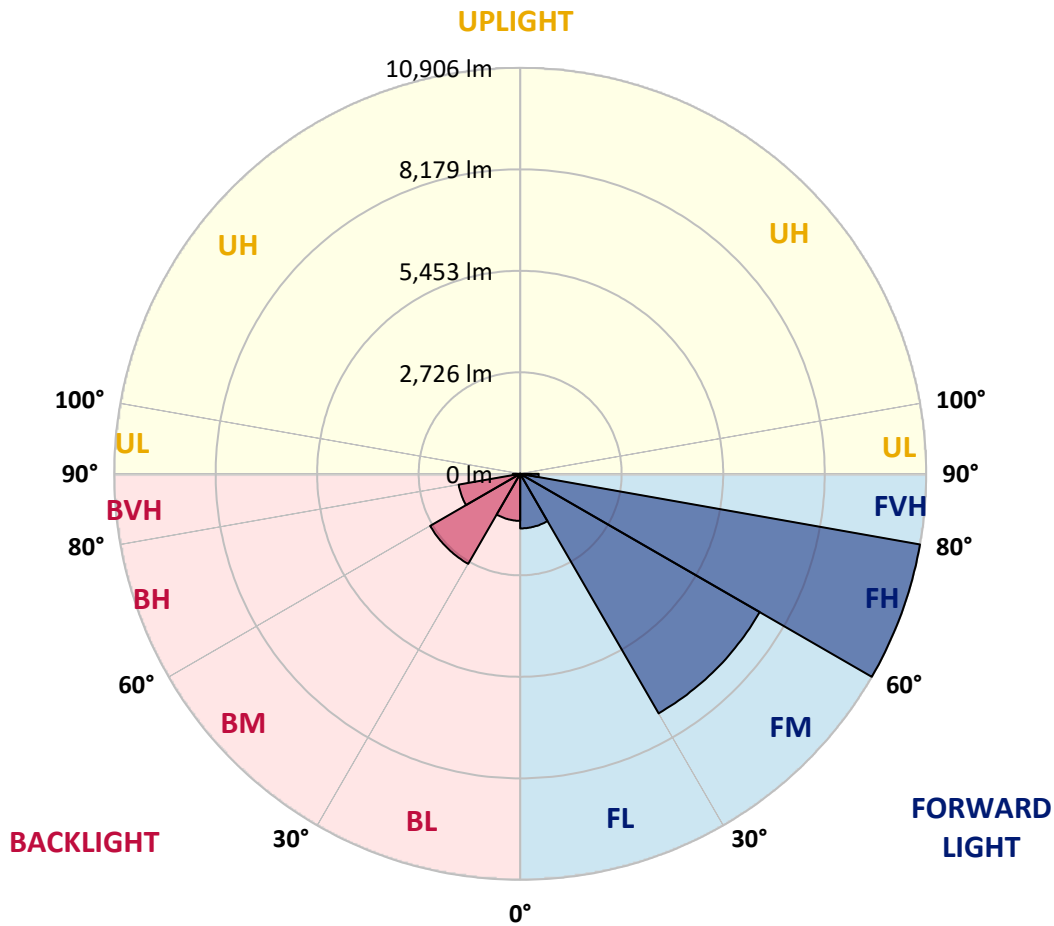
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1467.0	5.6			
FM (30°-60°)	7430.6	28.3			
FH (60°-80°)	10905.8	41.6			G4/12000
FVH (80°-90°)	499.3	1.9			G3/500
BL (0°-30°)	1262.6	4.8	B3/2500		
BM (30°-60°)	2792.4	10.6	B3/5000		
BH (60°-80°)	1678.7	6.4	B3/2500		G3/2500
BVH (80°-90°)	196.7	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°	2646.4	2646.4	2646.4	2646.4	2646.4	2646.4	2646.4	2646.4	2646.4	2646.4
2.5°	2750.0	2768.0	2751.4	2736.2	2729.3	2711.3	2710.0	2698.9	2692.0	2672.7
5°	2942.1	2965.6	2938.0	2907.6	2879.9	2835.7	2830.2	2798.4	2762.5	2721.0
7.5°	3159.1	3179.8	3148.0	3102.4	3054.1	2980.8	2979.4	2921.4	2864.7	2794.3
10°	3348.4	3376.1	3333.2	3271.0	3210.2	3127.3	3117.6	3051.3	2979.4	2888.2
12.5°	3515.6	3535.0	3493.5	3417.5	3347.0	3264.1	3251.7	3178.4	3098.3	2994.6
15°	3648.3	3673.2	3617.9	3536.4	3461.7	3380.2	3369.1	3302.8	3222.7	3113.5
17.5°	3735.4	3756.1	3699.4	3608.2	3536.4	3468.6	3460.4	3405.1	3334.6	3224.0
20°	3768.5	3790.6	3731.2	3638.6	3572.3	3519.8	3515.6	3475.6	3427.2	3326.3
22.5°	3801.7	3822.4	3745.0	3648.3	3590.3	3557.1	3555.7	3529.5	3510.1	3427.2
25°	3935.7	3941.3	3837.6	3698.0	3615.1	3586.1	3584.7	3583.3	3591.6	3526.7
27.5°	4051.8	4050.4	3962.0	3830.7	3702.2	3641.4	3640.0	3653.8	3680.1	3626.2
30°	4221.8	4206.6	4101.6	3964.8	3847.3	3753.3	3745.0	3732.6	3753.3	3710.5
32.5°	4582.5	4534.1	4364.1	4120.9	3967.5	3895.7	3884.6	3807.2	3815.5	3789.3
35°	5099.3	5035.8	4809.1	4416.7	4116.8	4014.5	4009.0	3910.9	3894.3	3870.8
37.5°	5714.3	5635.5	5371.6	4845.1	4373.8	4152.7	4144.4	4056.0	3988.3	3963.4
40°	6332.0	6232.5	6014.2	5367.4	4752.5	4383.5	4357.2	4223.2	4145.8	4104.3
42.5°	6931.8	6848.9	6662.3	5953.4	5219.6	4720.7	4662.6	4433.2	4375.2	4336.5
45°	7462.4	7387.8	7251.0	6579.4	5766.8	5179.5	5122.8	4748.3	4730.4	4730.4
47.5°	7893.6	7877.0	7731.9	7217.8	6412.2	5701.8	5603.7	5186.4	5234.8	5309.4
50°	8371.7	8326.1	8171.4	7846.6	7170.8	6300.2	6220.1	5724.0	5905.0	6109.5
52.5°	8811.2	8836.1	8663.3	8501.6	8027.6	6967.7	6826.7	6358.3	6749.4	7087.9
55°	9263.1	9264.5	9216.1	9194.0	8925.9	7705.7	7550.9	7121.1	7743.0	8163.1
57.5°	9687.3	9690.1	9762.0	9956.8	9967.9	8556.9	8381.4	8058.0	8847.1	9275.5
60°	10066.0	10085.3	10281.6	10737.6	10884.1	9532.6	9366.7	9165.0	9988.6	10419.8
62.5°	10193.1	10263.6	10700.3	11348.4	11789.3	10729.3	10566.2	10446.0	11188.1	11588.9
65°	9977.5	10139.2	10983.6	11852.8	12720.7	12151.3	11989.6	11858.4	12434.6	12811.9
67.5°	9448.3	9656.9	10967.0	12382.1	13851.1	13862.2	13711.5	13403.4	13770.9	13916.1
70°	8053.9	8366.2	10001.0	12579.7	15148.7	16201.8	16056.7	15263.4	15104.5	14402.5
72.5°	5189.2	5609.3	7364.3	10953.2	15437.6	18403.2	18394.9	16942.5	15526.0	13457.3
75°	1893.2	2150.3	3421.7	6875.1	12958.4	18291.2	18345.1	16655.0	14173.1	10394.9
77.5°	689.6	754.5	1116.6	2642.3	7969.6	14676.1	14788.1	13314.9	10088.1	5216.8
80°	362.1	398.0	572.1	1025.4	3414.8	8715.8	8891.3	7912.9	4741.4	1571.3
82.5°	200.4	217.0	320.6	556.9	1538.1	3727.1	3832.1	3125.9	1668.0	666.1
85°	107.8	114.7	150.6	304.0	751.8	1292.1	1321.1	934.2	664.7	391.1
87.5°	31.8	38.7	49.7	96.7	294.4	290.2	297.1	185.2	262.6	197.6
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°
2646.4	0°	2646.4	2646.4	2646.4	2646.4	2646.4	2646.4	2646.4	2646.4	2646.4	2646.4
2667.1	2.5°	2658.8	2654.7	2639.5	2632.6	2624.3	2622.9	2629.8	2631.2	2632.6	2634.0
2697.5	5°	2683.7	2669.9	2656.1	2647.8	2650.5	2651.9	2665.7	2675.4	2682.3	2687.9
2754.2	7.5°	2732.1	2721.0	2697.5	2696.1	2700.3	2712.7	2730.7	2752.8	2765.2	2774.9
2827.4	10°	2803.9	2783.2	2755.6	2759.7	2768.0	2786.0	2823.3	2841.3	2862.0	2879.9
2917.3	12.5°	2877.2	2859.2	2827.4	2830.2	2844.0	2875.8	2911.7	2933.8	2947.7	2961.5
3014.0	15°	2972.5	2940.8	2906.2	2906.2	2931.1	2965.6	2982.2	3000.2	3008.5	3023.7
3117.6	17.5°	3070.7	3029.2	2983.6	2980.8	3011.2	3027.8	3037.5	3040.2	3043.0	3059.6
3218.5	20°	3168.8	3123.2	3058.2	3052.7	3059.6	3056.8	3055.5	3052.7	3056.8	3077.6
3322.2	22.5°	3265.5	3213.0	3123.2	3098.3	3078.9	3052.7	3051.3	3049.9	3052.7	3073.4
3434.1	25°	3378.8	3315.3	3195.0	3120.4	3055.5	3019.5	3023.7	3025.0	3027.8	3044.4
3550.2	27.5°	3501.8	3431.3	3261.4	3113.5	2996.0	2971.2	2964.2	2968.4	2978.1	3004.3
3666.3	30°	3624.8	3541.9	3322.2	3085.9	2921.4	2886.9	2864.7	2874.4	2904.8	2931.1
3767.1	32.5°	3736.7	3653.8	3370.5	3025.0	2826.1	2772.2	2743.1	2755.6	2786.0	2795.6
3879.1	35°	3868.0	3774.1	3391.3	2928.3	2722.4	2639.5	2600.8	2582.8	2598.0	2588.4
4010.4	37.5°	4014.5	3916.4	3388.5	2801.2	2600.8	2505.4	2451.5	2383.8	2352.0	2318.9
4203.8	40°	4231.5	4090.5	3355.3	2647.8	2450.2	2363.1	2266.4	2151.7	2079.8	2014.9
4516.2	42.5°	4527.2	4332.4	3294.5	2479.2	2280.2	2198.7	2067.4	1933.3	1820.0	1712.2
4990.2	45°	4968.0	4648.8	3218.5	2299.5	2096.4	2016.2	1873.9	1723.3	1594.7	1456.6
5663.2	47.5°	5603.7	5074.5	3146.7	2095.0	1902.9	1829.7	1701.2	1561.6	1409.6	1275.5
6636.0	50°	6477.1	5685.3	3080.3	1896.0	1712.2	1656.9	1554.7	1412.3	1258.9	1151.1
7776.1	52.5°	7588.2	6515.8	3052.7	1703.9	1533.9	1513.2	1431.7	1299.0	1153.9	1062.7
9105.5	55°	8863.7	7509.4	3052.7	1520.1	1377.8	1384.7	1328.0	1205.0	1079.3	997.8
10476.4	57.5°	10165.5	8515.5	2997.4	1350.1	1245.1	1274.1	1238.2	1130.4	1017.1	932.8
11917.8	60°	11365.0	9358.4	2773.5	1195.4	1127.7	1173.3	1149.8	1057.2	919.0	848.5
13122.8	62.5°	12286.8	9833.8	2342.4	1072.4	1030.9	1083.4	1071.0	960.4	901.0	872.0
14112.3	65°	12748.3	9756.4	1791.0	963.2	949.4	1030.9	1004.7	1000.5	953.5	920.4
14434.3	67.5°	12465.0	9090.3	1299.0	883.1	902.4	982.6	1083.4	1100.0	1013.0	948.0
13527.7	70°	11222.7	7885.3	967.4	807.0	843.0	983.9	1235.4	1151.1	993.6	917.6
10849.5	72.5°	8537.6	5880.1	750.4	726.9	765.6	990.8	1303.2	1127.7	938.3	1014.3
6759.0	75°	4882.4	3228.2	602.5	628.8	668.9	925.9	1268.6	1066.9	895.5	931.4
2678.2	77.5°	1861.5	1241.0	497.5	532.0	537.6	808.4	1213.3	1062.7	852.7	831.9
802.9	80°	645.4	485.1	411.8	422.9	416.0	718.6	1163.6	924.5	697.9	624.6
331.7	82.5°	263.9	241.8	326.1	312.3	295.7	558.3	939.7	755.9	570.7	504.4
160.3	85°	114.7	153.4	215.6	189.3	171.4	386.9	753.2	639.8	482.3	416.0
52.5	87.5°	23.5	58.0	91.2	85.7	88.4	258.4	534.8	454.7	341.3	255.7
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>
2646.4
2639.5
2690.6
2777.7
2875.8
2967.0
3029.2
3065.1
3085.9
3087.2
3066.5
3030.6
2960.1
2830.2
2618.8
2339.6
2019.0
1702.5
1440.0
1260.3
1144.2
1055.8
989.5
919.0
837.5
862.3
909.3
936.9
905.2
1006.0
931.4
758.7
603.9
498.9
414.6
200.4
0.0

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