

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: P942187

Luminaire Tested: **GALN-SB6A-827-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942187  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB6A-827-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

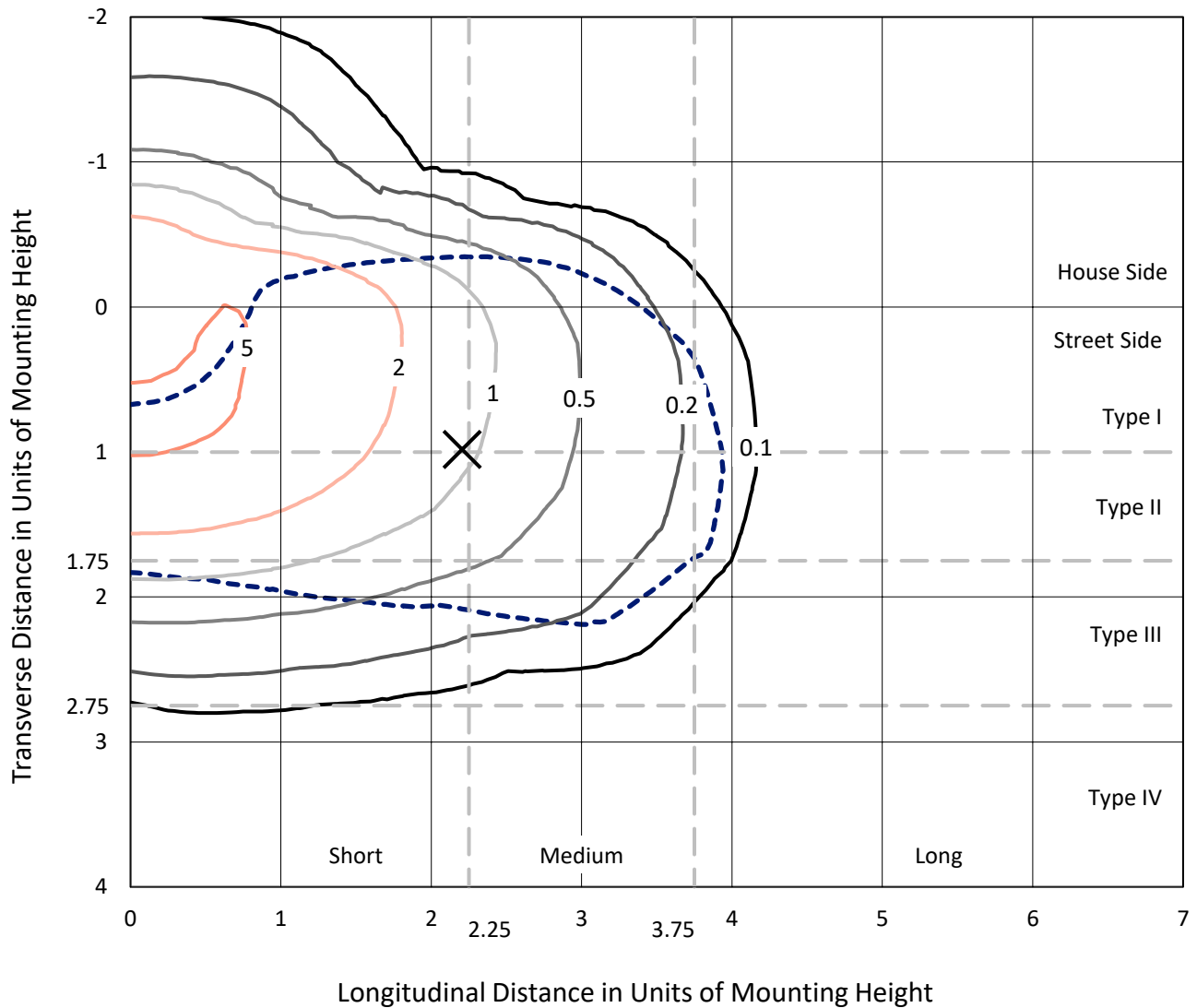
Lumens per Lamp: N/A  
Luminaire Lumens: 23670 lumens  
Efficiency: N/A  
Efficacy: 138.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 170.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

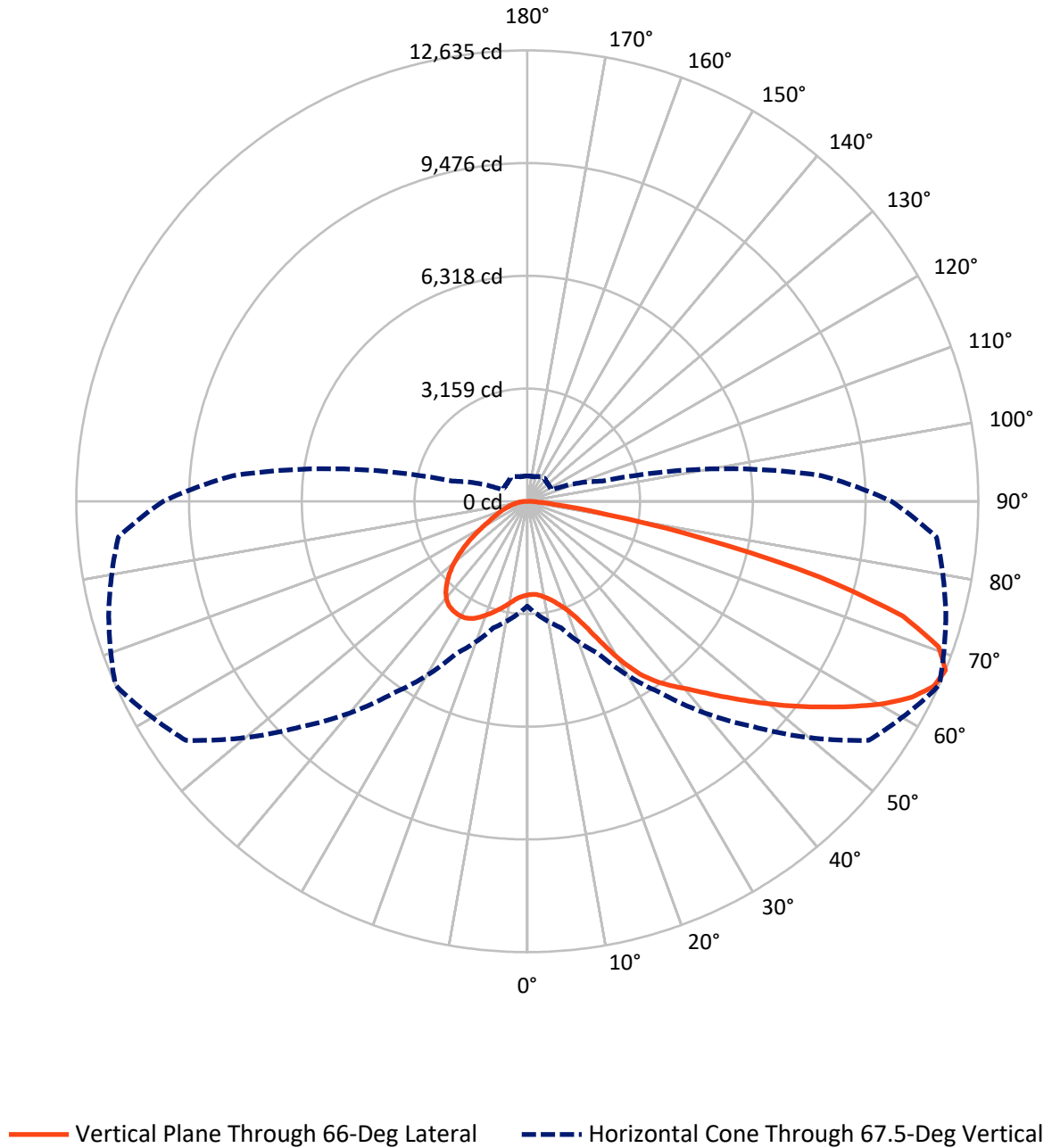
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc  
 Type III - 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	5885.5	0.0	5885.5
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	17784.5	0.0	17784.5
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	23670.0	0.0	23670.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	260.3	1.1
10°-20°	860.0	3.6
20°-30°	1657.5	7.0
30°-40°	2906.3	12.3
40°-50°	4320.7	18.3
50°-60°	5476.9	23.1
60°-70°	5359.0	22.6
70°-80°	2556.3	10.8
80°-90°	273.2	1.2
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°	23670.0	100.0
0°-180°	23670.0	100.0

**Coefficient of Utilization**



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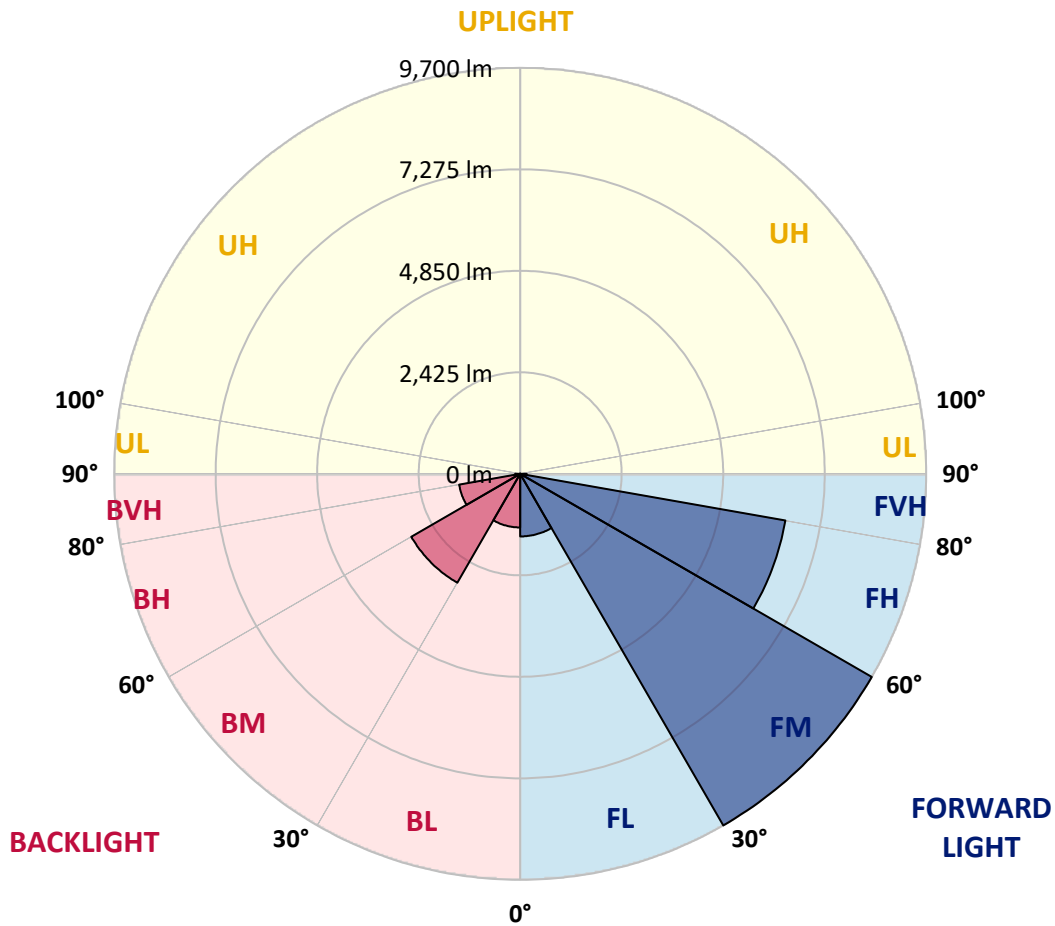
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1495.7	6.3			
FM (30°-60°)	9699.8	41.0			
FH (60°-80°)	6434.2	27.2			G3/7500
FVH (80°-90°)	154.9	0.7			G2/225
BL (0°-30°)	1282.1	5.4	B3/2500		
BM (30°-60°)	3004.0	12.7	B3/5000		
BH (60°-80°)	1481.1	6.3	B3/2500		G3/2500
BVH (80°-90°)	118.3	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	2625.3	2625.3	2625.3	2625.3	2625.3	2625.3	2625.3	2625.3	2625.3	2625.3
2.5°	2598.0	2612.9	2609.1	2602.9	2601.7	2604.2	2607.9	2611.6	2610.4	2616.6
5°	2590.5	2605.4	2604.2	2604.2	2609.1	2619.1	2625.3	2631.5	2625.3	2632.8
7.5°	2595.5	2606.7	2611.6	2616.6	2629.0	2647.7	2662.6	2676.3	2668.8	2677.5
10°	2658.9	2667.6	2672.6	2672.6	2681.3	2702.4	2717.3	2742.2	2736.0	2749.7
12.5°	2774.6	2783.3	2783.3	2778.3	2784.5	2798.2	2803.2	2830.5	2819.3	2841.7
15°	2916.3	2933.7	2920.1	2911.4	2913.8	2927.5	2926.3	2947.4	2936.2	2954.9
17.5°	3073.0	3095.4	3073.0	3071.8	3066.8	3081.7	3083.0	3101.6	3081.7	3095.4
20°	3258.3	3289.4	3270.8	3277.0	3265.8	3272.0	3278.2	3305.6	3274.5	3284.4
22.5°	3519.5	3556.8	3536.9	3560.5	3553.1	3548.1	3546.9	3595.4	3546.9	3550.6
25°	3900.0	3944.8	3910.0	3942.3	3942.3	3958.5	3977.1	4039.3	3958.5	3934.9
27.5°	4462.2	4506.9	4438.5	4458.4	4452.2	4492.0	4472.1	4626.3	4539.3	4500.7
30°	5138.7	5218.3	5089.0	5084.0	5077.8	5141.2	5169.8	5271.8	5183.5	5144.9
32.5°	5870.0	5953.3	5799.1	5754.3	5730.7	5769.2	5745.6	5827.7	5766.7	5707.0
35°	6643.5	6725.6	6578.8	6491.8	6397.3	6316.4	6231.9	6253.0	6195.8	6105.0
37.5°	7374.8	7525.2	7369.8	7276.5	7102.4	6944.5	6708.2	6609.9	6556.4	6473.1
40°	8119.7	8205.5	8087.4	8007.8	7818.7	7571.3	7193.2	6985.5	6913.4	6832.5
42.5°	8668.1	8750.2	8686.8	8632.1	8484.1	8196.8	7708.1	7448.1	7343.7	7252.9
45°	9103.4	9164.4	9124.6	9144.5	9081.0	8802.5	8241.6	7944.3	7836.2	7725.5
47.5°	9278.8	9343.4	9406.9	9525.0	9633.2	9428.0	8814.9	8481.6	8367.2	8254.0
50°	9258.9	9324.8	9508.8	9760.1	10095.8	10027.4	9419.3	9053.7	8948.0	8818.6
52.5°	9099.7	9174.3	9410.6	9828.5	10363.2	10476.4	10034.9	9644.4	9544.9	9390.7
55°	8681.8	8726.6	9081.0	9673.0	10426.6	10789.8	10638.1	10273.7	10174.2	9959.0
57.5°	7907.0	7971.7	8487.8	9253.9	10267.5	11002.4	11167.9	10935.3	10839.5	10529.9
60°	6896.0	6999.2	7589.9	8550.0	9862.0	11001.2	11649.1	11585.7	11506.1	11092.0
62.5°	5751.8	5871.2	6439.5	7555.1	9153.2	10689.1	11950.1	12130.4	12089.4	11610.6
65°	4417.4	4499.5	5065.3	6267.9	8050.1	10018.7	11984.9	12502.3	12509.7	12004.8
67.5°	2941.2	3177.5	3668.7	4703.4	6572.6	8923.1	11679.0	12563.2	12635.3	12140.4
70°	1435.2	1746.1	2227.4	3056.9	4703.4	7242.9	10879.3	12063.3	12223.7	11744.9
72.5°	595.7	696.4	958.8	1508.5	2699.9	4887.5	9272.6	10707.7	11004.9	10406.7
75°	401.7	435.3	548.4	773.5	1230.0	2410.2	6687.0	7984.1	8462.9	7859.8
77.5°	309.7	330.8	399.2	541.0	731.3	911.6	3579.2	4811.6	5059.1	4683.5
80°	243.8	259.9	298.5	394.2	518.6	487.5	1220.0	2180.1	2323.1	1948.8
82.5°	211.4	217.6	213.9	267.4	344.5	284.8	400.5	804.6	888.0	644.2
85°	153.0	170.4	177.8	165.4	182.8	144.3	164.2	284.8	313.4	279.8
87.5°	62.2	92.0	113.2	107.0	67.2	41.0	51.0	83.3	95.8	104.5
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°
2625.3	0°	2625.3	2625.3	2625.3	2625.3	2625.3	2625.3	2625.3	2625.3	2625.3	2625.3
2626.6	2.5°	2627.8	2636.5	2642.7	2650.2	2655.2	2662.6	2677.5	2686.3	2687.5	2693.7
2646.5	5°	2651.4	2663.9	2677.5	2697.4	2719.8	2738.5	2767.1	2787.0	2794.5	2800.7
2695.0	7.5°	2702.4	2719.8	2744.7	2779.5	2811.9	2836.7	2871.6	2895.2	2918.8	2927.5
2772.1	10°	2778.3	2803.2	2839.2	2886.5	2921.3	2953.6	2989.7	3009.6	3033.2	3043.2
2864.1	12.5°	2872.8	2898.9	2946.2	3012.1	3044.4	3066.8	3079.2	3074.3	3079.2	3087.9
2974.8	15°	2981.0	3009.6	3063.1	3134.0	3156.3	3136.5	3109.1	3084.2	3080.5	3083.0
3109.1	17.5°	3109.1	3130.2	3192.4	3252.1	3235.9	3153.9	3094.2	3054.4	3034.5	3028.3
3280.7	20°	3288.2	3288.2	3339.2	3376.5	3268.3	3129.0	3035.7	2971.0	2930.0	2912.6
3514.5	22.5°	3505.8	3485.9	3518.2	3492.1	3262.1	3059.3	2930.0	2818.1	2755.9	2731.0
3841.6	25°	3781.9	3758.3	3749.6	3587.9	3217.3	2948.7	2738.5	2602.9	2548.2	2534.5
4312.9	27.5°	4198.5	4138.8	4025.7	3640.1	3135.2	2774.6	2514.6	2389.0	2357.9	2359.2
4918.6	30°	4753.2	4633.8	4356.5	3648.8	3000.9	2528.3	2285.8	2196.3	2181.3	2187.6
5427.2	32.5°	5266.8	5153.6	4694.7	3609.0	2794.5	2287.0	2080.6	2020.9	1998.5	2006.0
5815.2	35°	5669.7	5638.6	5008.1	3553.1	2540.7	2060.7	1896.5	1845.6	1802.0	1792.1
6180.9	37.5°	6050.3	6037.9	5243.2	3474.7	2289.5	1900.3	1748.6	1681.4	1618.0	1583.1
6585.1	40°	6468.2	6455.7	5397.4	3354.1	2066.9	1761.0	1615.5	1527.2	1448.8	1385.4
7042.7	42.5°	6938.2	6864.9	5470.8	3181.2	1877.9	1642.8	1507.3	1387.9	1284.7	1226.2
7560.1	45°	7451.9	7286.5	5469.5	2961.1	1718.7	1534.6	1391.6	1222.5	1126.7	1072.0
8091.1	47.5°	7996.6	7689.4	5402.4	2717.3	1564.5	1415.3	1212.5	1083.2	1019.8	986.2
8668.1	50°	8558.7	8066.2	5287.9	2437.5	1406.6	1279.7	1100.6	1012.3	963.8	932.7
9240.2	52.5°	9087.2	8408.2	5149.9	2120.4	1246.1	1147.9	1050.9	982.5	931.5	896.7
9794.9	55°	9578.5	8703.0	4954.6	1795.8	1115.5	1059.6	1027.2	970.0	911.6	870.5
10358.2	57.5°	10015.0	8894.5	4617.6	1491.1	1022.3	998.6	1002.4	948.9	881.7	846.9
10912.9	60°	10378.1	9035.0	4118.9	1208.8	946.4	938.9	963.8	909.1	830.7	791.0
11381.8	62.5°	10595.8	9032.5	3507.1	989.9	881.7	884.2	912.8	859.4	779.8	742.5
11626.8	65°	10577.1	8811.2	2835.5	846.9	819.6	822.0	859.4	804.6	737.5	715.1
11503.6	67.5°	10202.8	8271.4	2175.1	753.6	751.2	762.3	805.9	767.3	711.4	708.9
10769.9	70°	9189.2	7150.9	1567.0	679.0	680.3	696.4	753.6	743.7	697.7	702.7
9054.9	72.5°	7368.5	5452.1	1052.1	600.7	601.9	628.0	703.9	725.0	684.0	749.9
6424.6	75°	4907.4	3400.1	676.5	517.4	518.6	552.2	660.4	689.0	646.7	747.4
3342.9	77.5°	2357.9	1528.4	490.0	435.3	435.3	466.4	570.8	616.8	550.9	580.8
1074.5	80°	814.6	574.6	385.5	350.7	343.2	364.4	481.3	534.8	475.1	437.8
350.7	82.5°	320.9	298.5	309.7	272.4	247.5	261.2	374.3	441.5	349.5	315.9
197.7	85°	184.1	194.0	218.9	180.3	143.0	160.4	274.8	317.1	263.7	232.6
64.7	87.5°	49.7	68.4	100.7	93.3	64.7	68.4	130.6	175.4	151.7	116.9
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>
2625.3
2692.5
2799.4
2928.8
3048.2
3090.4
3091.7
3037.0
2908.9
2727.3
2537.0
2362.9
2208.7
2015.9
1799.5
1584.4
1391.6
1230.0
1069.5
978.7
921.5
881.7
854.4
824.5
773.5
731.3
713.8
712.6
701.4
759.9
753.6
532.3
410.4
314.6
237.5
120.6
0.0

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