

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: P949634

Luminaire Tested: **GALN-SB4B-827-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949634  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4B-827-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

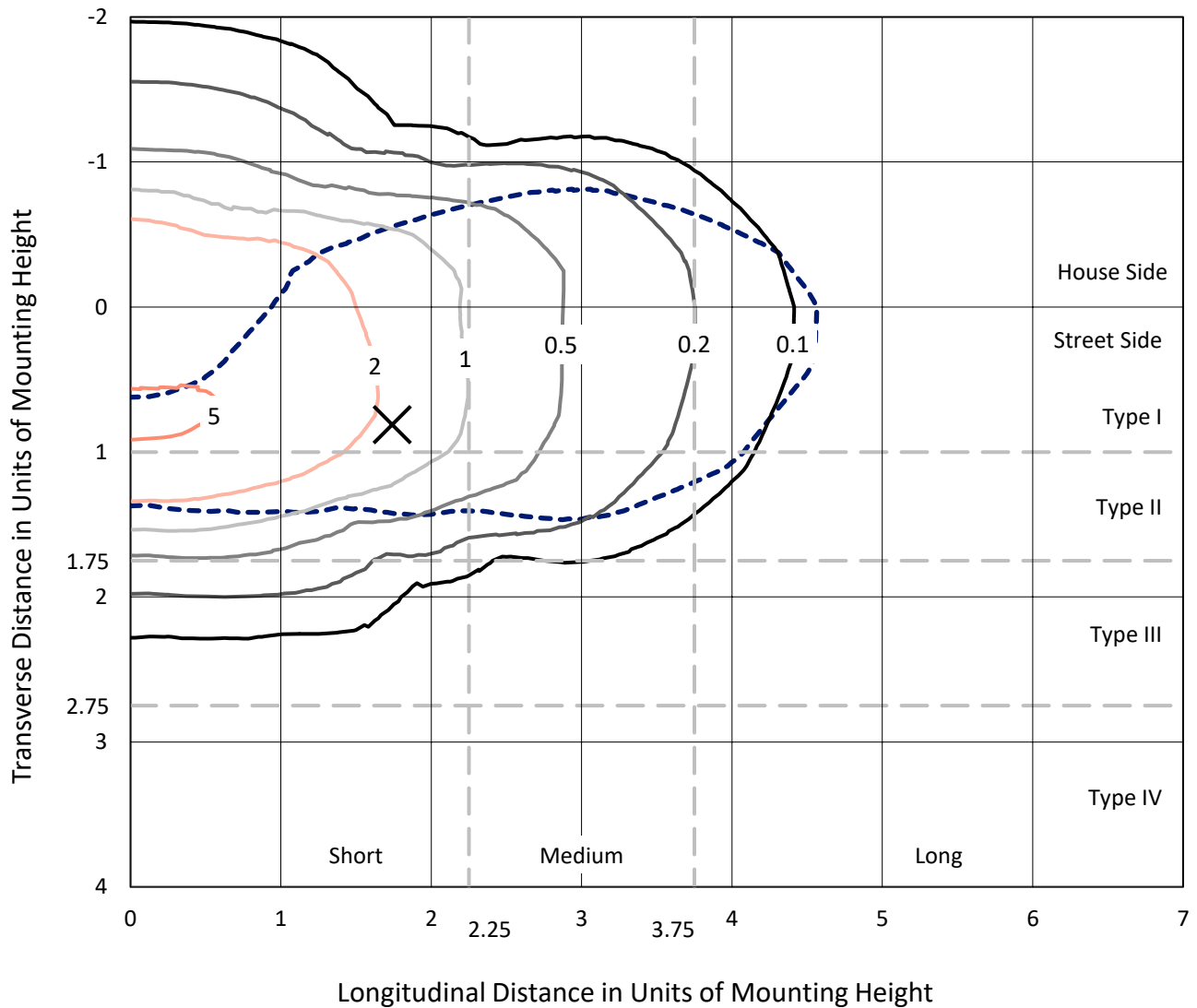
Lumens per Lamp: N/A  
Luminaire Lumens: 19887 lumens  
Efficiency: N/A  
Efficacy: 135.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

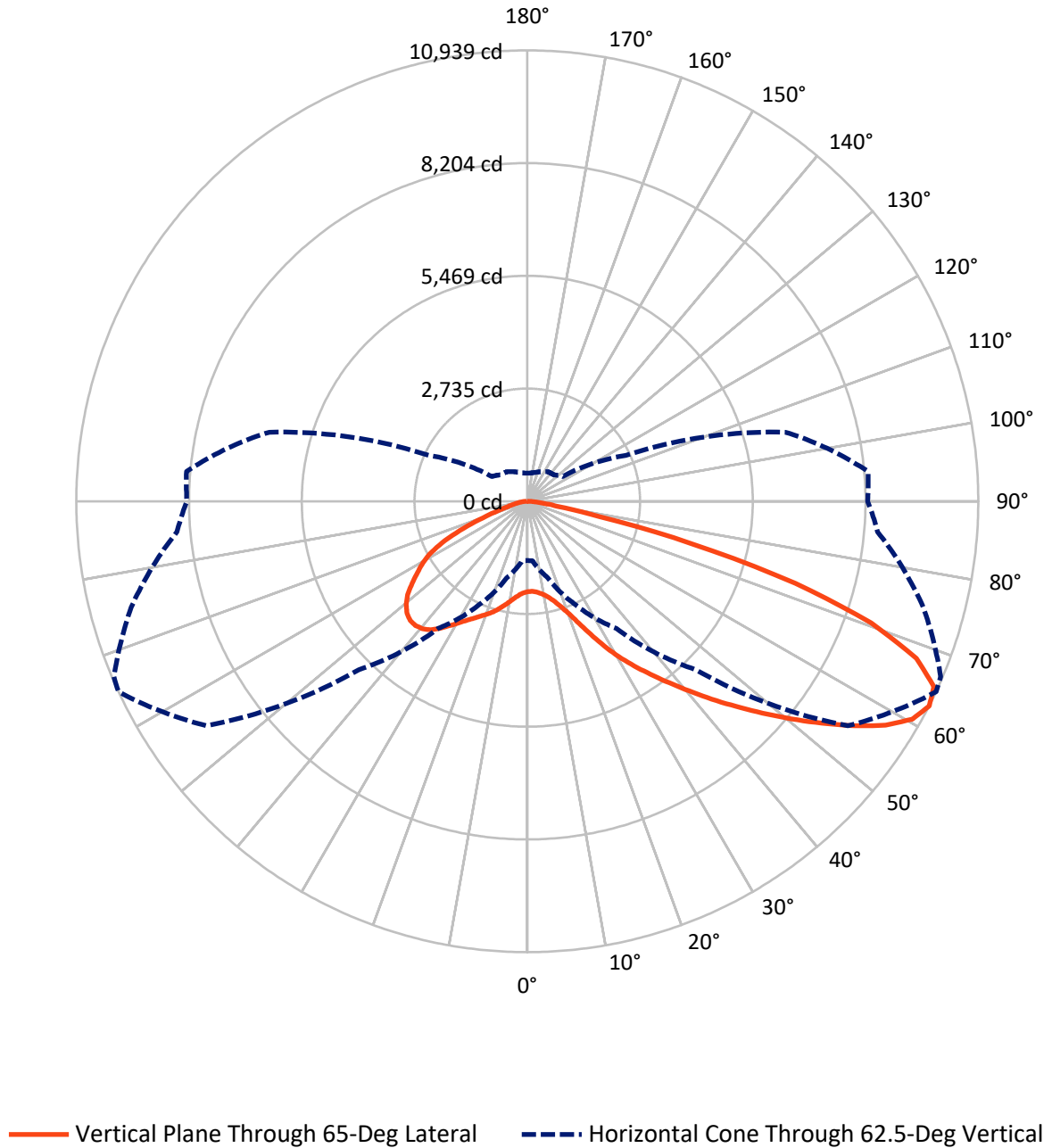
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type II - 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	6275.5	0.0	6275.5
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	13611.5	0.0	13611.5
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	19887.0	0.0	19887.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	218.5	1.1
10°-20°	740.9	3.7
20°-30°	1502.3	7.6
30°-40°	2599.6	13.1
40°-50°	3934.1	19.8
50°-60°	4612.4	23.2
60°-70°	3867.0	19.4
70°-80°	2134.9	10.7
80°-90°	277.3	1.4
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°	19887.0	100.0
0°-180°	19887.0	100.0



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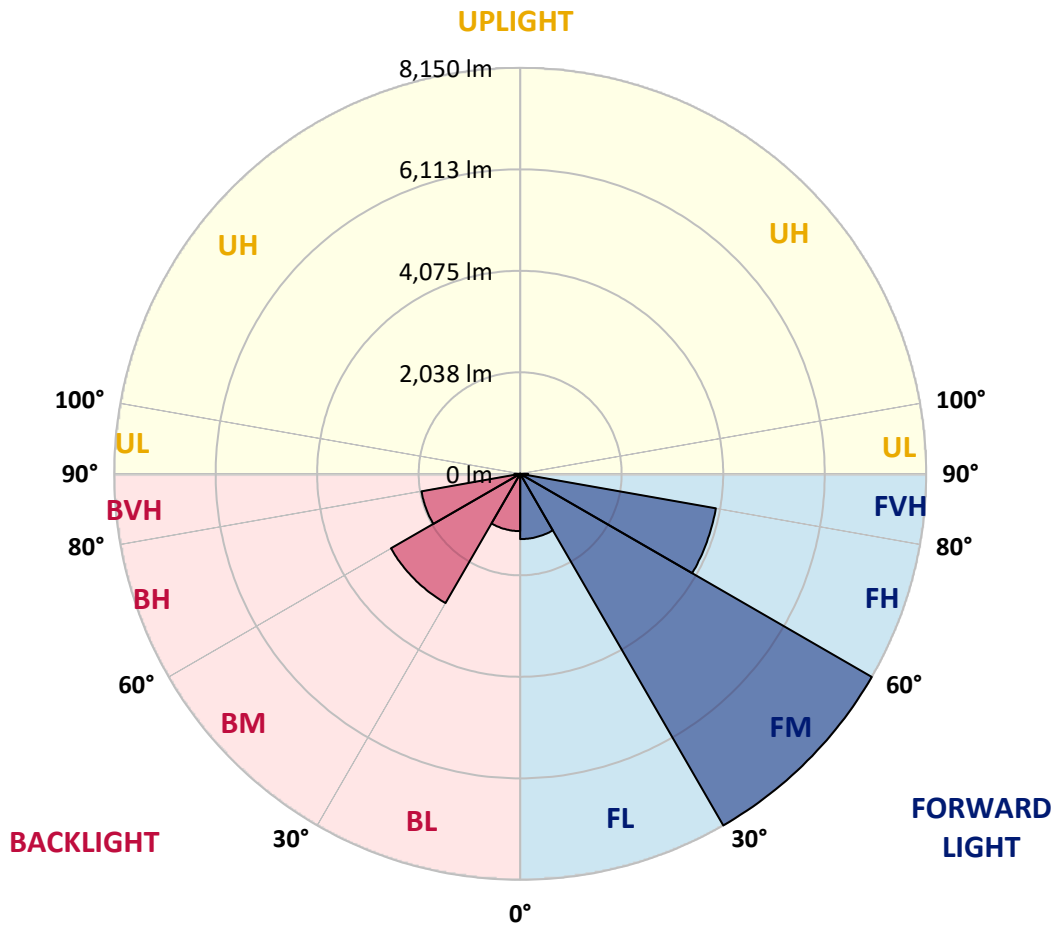
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1310.8	6.6			
FM (30°-60°)	8150.3	41.0			
FH (60°-80°)	3988.7	20.1			G2/5000
FVH (80°-90°)	161.6	0.8			G2/225
BL (0°-30°)	1150.8	5.8	B3/2500		
BM (30°-60°)	2995.8	15.1	B3/5000		
BH (60°-80°)	2013.1	10.1	B3/2500		G3/2500
BVH (80°-90°)	115.7	0.6			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 II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	2191.5	2191.5	2191.5	2191.5	2191.5	2191.5	2191.5	2191.5	2191.5	2191.5
2.5°	2177.0	2170.8	2176.0	2176.0	2178.0	2177.0	2184.2	2186.3	2189.4	2195.6
5°	2155.3	2154.3	2163.6	2171.9	2180.1	2187.3	2196.6	2210.0	2212.1	2219.3
7.5°	2148.1	2141.9	2156.4	2166.7	2186.3	2203.8	2228.6	2251.3	2260.6	2263.7
10°	2203.8	2193.5	2206.9	2213.1	2229.6	2247.2	2276.1	2312.2	2322.5	2334.9
12.5°	2298.8	2287.4	2307.0	2316.3	2331.8	2347.3	2366.9	2401.9	2407.1	2429.8
15°	2428.8	2415.4	2427.7	2439.1	2464.9	2479.3	2498.9	2533.0	2533.0	2550.5
17.5°	2605.2	2587.7	2596.9	2601.1	2617.6	2639.2	2672.3	2702.2	2717.7	2711.5
20°	2868.3	2846.6	2846.6	2826.0	2819.8	2837.3	2880.7	2921.9	2938.5	2906.5
22.5°	3263.5	3232.5	3215.0	3144.8	3117.0	3119.0	3162.3	3212.9	3226.3	3169.6
25°	3765.9	3717.4	3693.7	3590.5	3527.6	3472.9	3507.0	3572.0	3590.5	3520.4
27.5°	4268.4	4271.5	4248.8	4125.0	4020.8	3920.7	3903.2	3971.2	3990.9	3911.4
30°	4973.1	4899.8	4856.5	4707.9	4559.4	4419.0	4346.8	4374.7	4379.8	4284.9
32.5°	5580.8	5562.2	5469.4	5339.4	5148.5	4928.7	4808.0	4763.6	4755.4	4620.2
35°	6273.1	6262.8	6164.8	6010.0	5803.7	5498.3	5280.6	5153.6	5143.3	4953.5
37.5°	6976.8	6976.8	6880.8	6711.6	6498.0	6116.3	5785.1	5583.9	5550.9	5303.3
40°	7538.0	7504.0	7521.5	7450.3	7205.8	6800.3	6345.3	6053.3	6009.0	5711.8
42.5°	7856.9	7845.5	7950.8	8030.2	7930.1	7606.1	6962.3	6562.0	6500.1	6161.7
45°	7928.1	7915.7	8103.5	8394.4	8534.7	8401.6	7633.0	7097.5	7022.2	6632.2
47.5°	7764.0	7739.2	8014.7	8473.9	8923.7	9157.9	8359.3	7678.4	7569.0	7090.3
50°	7270.8	7247.1	7663.9	8273.7	9054.7	9671.7	9147.6	8294.3	8127.2	7581.4
52.5°	6198.8	6210.2	6863.3	7701.1	8882.4	9991.6	9826.5	8943.3	8742.1	8083.9
55°	4828.6	4853.4	5656.1	6578.5	8193.2	9943.1	10289.8	9611.9	9411.7	8556.4
57.5°	3457.4	3566.8	4319.0	5232.1	6869.5	9174.4	10390.9	10247.5	10053.5	9072.3
60°	2241.0	2260.6	3034.4	3954.7	5231.0	7808.4	10185.5	10729.3	10577.6	9598.5
62.5°	1436.2	1449.6	1921.1	2766.2	3764.9	5776.8	9494.3	10938.7	10892.3	9946.2
65°	1055.5	1045.2	1290.7	1828.3	2536.1	3562.7	8151.9	10837.6	10929.4	10163.9
67.5°	881.1	866.7	987.4	1266.0	1868.5	2023.3	6031.7	10180.4	10516.7	10139.1
70°	802.7	790.3	863.6	939.9	1457.9	1354.7	3040.6	8850.4	9368.4	9857.4
72.5°	679.9	658.3	758.3	834.7	1133.9	1039.0	1256.7	6798.3	7429.7	8954.7
75°	527.2	512.8	598.4	734.6	852.2	811.0	794.5	4128.1	4817.3	6925.2
77.5°	417.9	398.3	476.7	572.6	766.6	611.8	578.8	1777.7	2460.8	4421.1
80°	314.7	297.1	362.1	452.9	589.1	461.2	374.5	725.3	927.6	2240.0
82.5°	223.9	208.4	252.8	332.2	396.2	413.7	230.1	406.5	457.1	863.6
85°	143.4	134.1	169.2	208.4	251.7	266.2	140.3	212.5	233.2	356.0
87.5°	78.4	64.0	90.8	97.0	116.6	106.3	67.1	77.4	83.6	129.0
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°
2191.5	0°	2191.5	2191.5	2191.5	2191.5	2191.5	2191.5	2191.5	2191.5	2191.5	2191.5
2195.6	2.5°	2199.7	2202.8	2213.1	2216.2	2223.4	2232.7	2238.9	2245.1	2245.1	2251.3
2228.6	5°	2229.6	2236.9	2258.5	2269.9	2288.4	2307.0	2318.4	2331.8	2340.0	2344.2
2281.2	7.5°	2287.4	2298.8	2329.7	2349.3	2381.3	2407.1	2424.6	2443.2	2447.3	2458.7
2354.5	10°	2365.8	2379.2	2414.3	2451.5	2489.6	2521.6	2538.1	2551.5	2556.7	2558.8
2448.4	12.5°	2455.6	2475.2	2520.6	2566.0	2606.2	2634.1	2638.2	2635.1	2620.7	2608.3
2563.9	15°	2566.0	2583.5	2634.1	2683.6	2722.8	2728.0	2702.2	2685.7	2668.1	2665.0
2692.9	17.5°	2698.1	2707.3	2753.8	2802.3	2805.4	2787.8	2749.6	2734.2	2717.7	2706.3
2861.1	20°	2851.8	2848.7	2881.7	2902.3	2880.7	2827.0	2769.2	2743.5	2726.9	2713.5
3067.4	22.5°	3035.4	3011.7	3007.6	3002.4	2944.6	2832.2	2753.8	2720.8	2695.0	2676.4
3355.3	25°	3302.7	3211.9	3148.9	3113.9	2983.9	2804.3	2704.2	2631.0	2582.5	2550.5
3707.1	27.5°	3637.0	3484.3	3325.4	3239.7	2983.9	2747.6	2584.6	2465.9	2386.5	2353.4
4047.6	30°	3955.8	3795.9	3561.6	3391.4	2976.6	2654.7	2391.6	2226.5	2133.7	2100.7
4338.6	32.5°	4228.2	4053.8	3812.4	3557.5	2959.1	2504.1	2152.3	1969.6	1879.9	1840.7
4626.4	35°	4480.9	4295.2	4064.1	3740.1	2912.7	2283.3	1889.2	1749.9	1649.8	1586.8
4919.4	37.5°	4739.9	4519.1	4302.4	3905.2	2829.1	2025.3	1686.9	1568.3	1450.7	1366.1
5231.0	40°	5021.6	4757.5	4557.3	4003.2	2691.9	1779.8	1530.1	1421.8	1296.9	1207.2
5590.1	42.5°	5350.7	5043.2	4841.0	4053.8	2504.1	1605.4	1428.0	1321.7	1204.1	1130.8
5974.9	45°	5694.3	5357.9	5100.0	4052.8	2294.6	1523.9	1394.9	1289.7	1159.7	1083.3
6370.1	47.5°	6054.4	5687.1	5323.9	3986.7	2113.0	1535.3	1376.4	1220.6	1077.2	1002.9
6769.4	50°	6415.5	6047.2	5540.6	3862.9	2035.7	1510.5	1307.2	1123.6	954.4	887.3
7143.9	52.5°	6773.5	6429.9	5727.3	3686.5	1957.3	1418.7	1218.5	997.7	903.8	857.4
7530.8	55°	7133.6	6808.6	5930.6	3429.6	1761.2	1311.4	1069.9	950.3	863.6	821.3
7909.5	57.5°	7494.7	7246.1	6123.5	3172.7	1514.6	1179.3	988.4	892.5	823.3	787.2
8226.2	60°	7870.3	7746.5	6322.6	2936.4	1271.1	1010.1	928.6	846.0	775.9	735.6
8530.6	62.5°	8257.2	8297.4	6478.4	2632.0	1047.2	906.9	874.9	790.3	722.2	684.1
8782.4	65°	8647.2	8828.8	6580.6	2210.0	849.1	808.9	817.2	729.5	660.3	627.3
8967.0	67.5°	8941.2	9211.6	6551.7	1672.5	696.4	716.0	744.9	665.5	600.5	574.7
8937.1	70°	8974.3	9166.2	6266.9	1145.3	582.9	625.2	664.5	602.5	535.5	516.9
8516.2	72.5°	8534.7	8547.1	5473.5	748.0	493.2	548.9	579.8	538.6	473.6	455.0
7450.3	75°	7382.3	7068.6	4018.7	493.2	412.7	471.5	500.4	471.5	408.6	412.7
5574.6	77.5°	5593.2	5006.1	2440.1	350.8	344.6	396.2	435.4	414.8	361.1	405.5
2803.3	80°	2881.7	2708.4	1088.5	262.1	272.4	316.8	358.0	331.2	285.8	272.4
626.3	82.5°	660.3	767.6	429.2	187.8	197.1	228.0	273.4	248.7	205.3	173.3
261.0	85°	231.1	252.8	189.8	117.6	115.6	142.4	185.7	166.1	139.3	111.4
110.4	87.5°	73.3	96.0	71.2	47.5	49.5	64.0	85.6	78.4	65.0	42.3
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>
2191.5
2251.3
2346.2
2454.6
2553.6
2608.3
2665.0
2707.3
2714.6
2682.6
2562.9
2370.0
2120.3
1860.3
1607.5
1388.8
1224.7
1145.3
1095.7
1013.2
891.4
857.4
817.2
781.0
732.6
683.0
626.3
575.7
517.9
454.0
398.3
357.0
248.7
171.3
117.6
44.4
0.0

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