

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: P949994

Luminaire Tested: **GALN-SB4C-827-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949994  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB4C-827-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

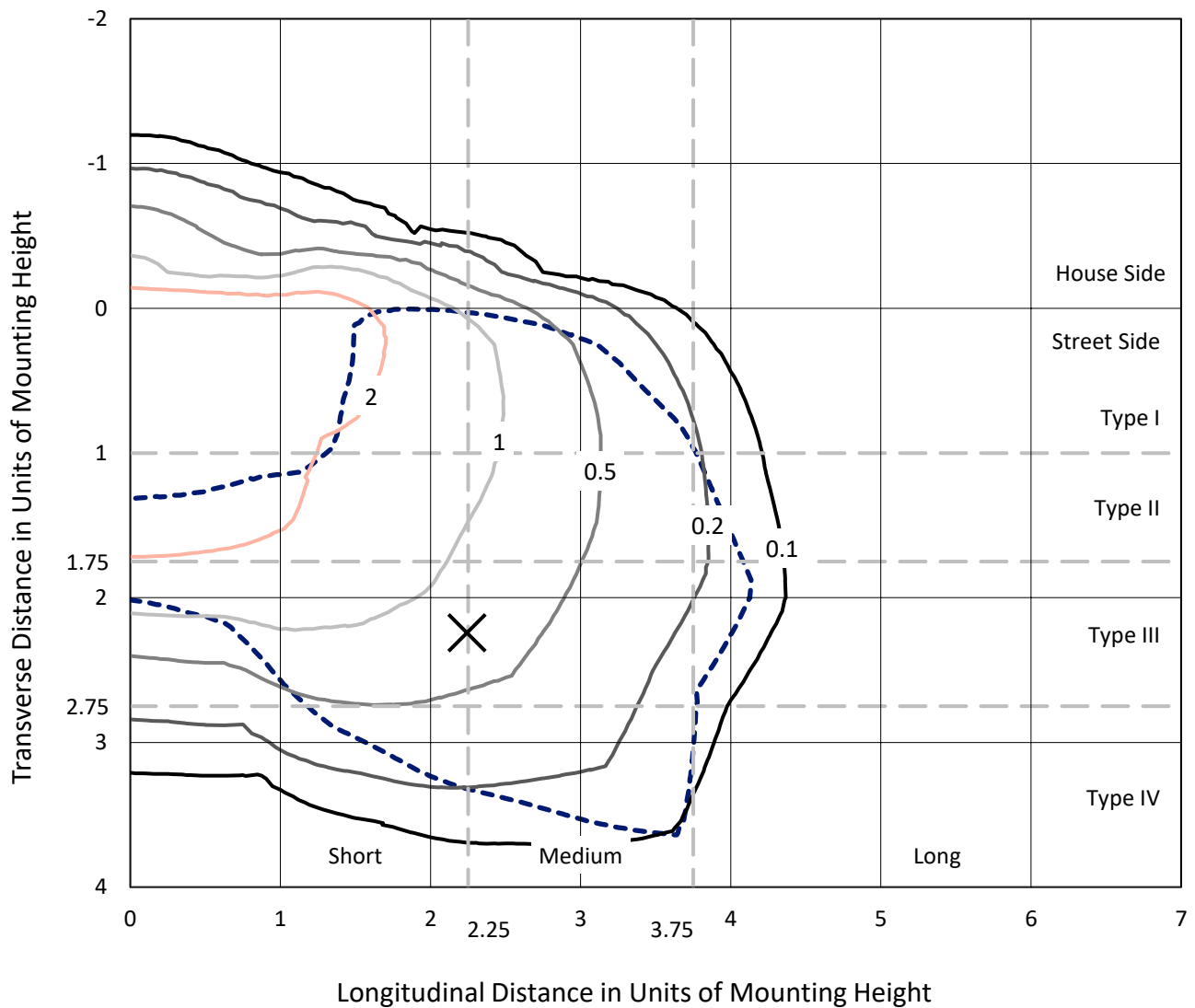
Lumens per Lamp: N/A  
Luminaire Lumens: 20104 lumens  
Efficiency: N/A  
Efficacy: 100.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

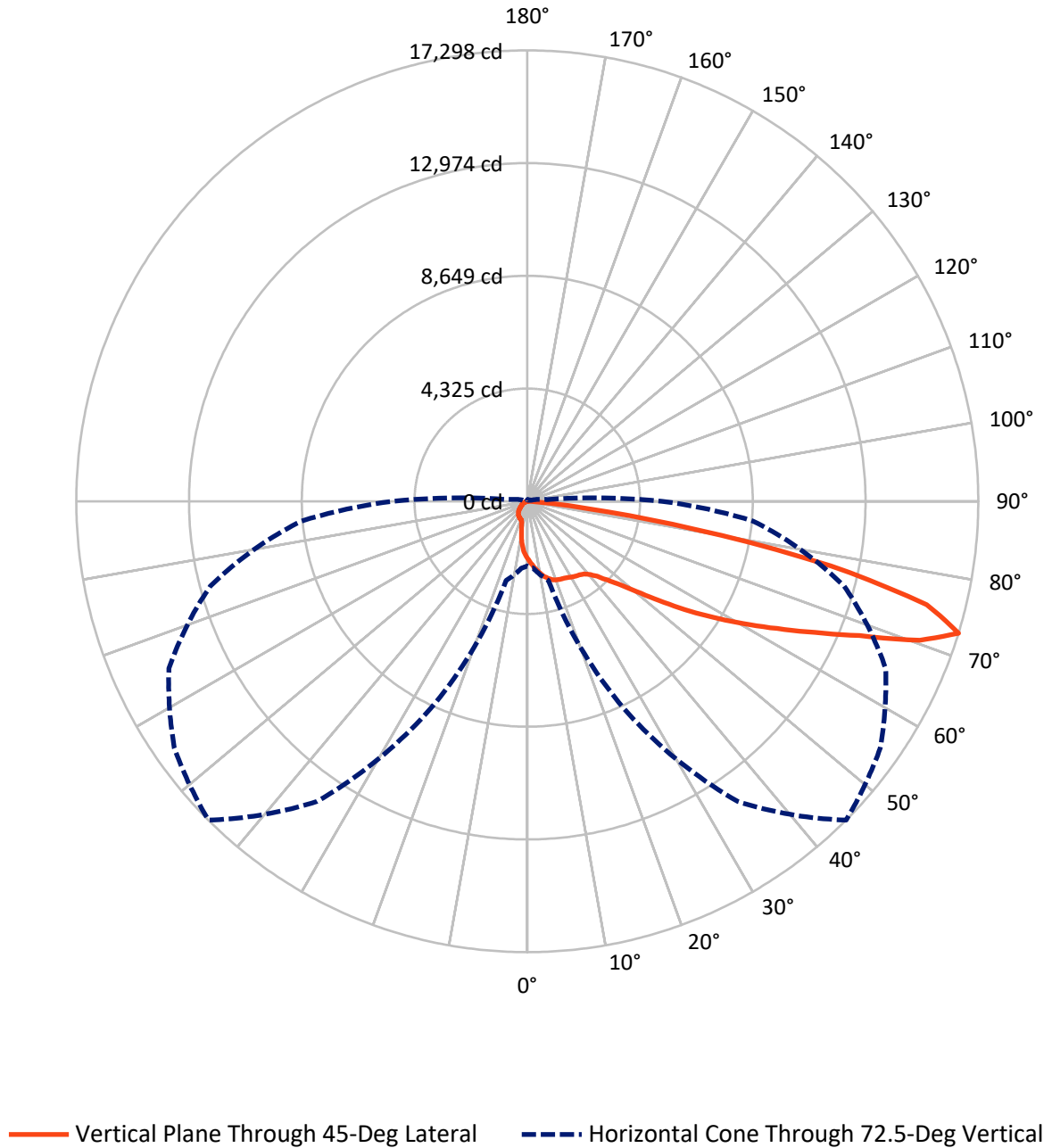
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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	2112.4	0.0	2112.4
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	17991.6	0.0	17991.6
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	20104.0	0.0	20104.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	207.5	1.0
10°-20°	606.5	3.0
20°-30°	995.9	5.0
30°-40°	1412.5	7.0
40°-50°	2334.6	11.6
50°-60°	4193.9	20.9
60°-70°	5823.5	29.0
70°-80°	4224.2	21.0
80°-90°	305.4	1.5
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°	20104.0	100.0
0°-180°	20104.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P949994

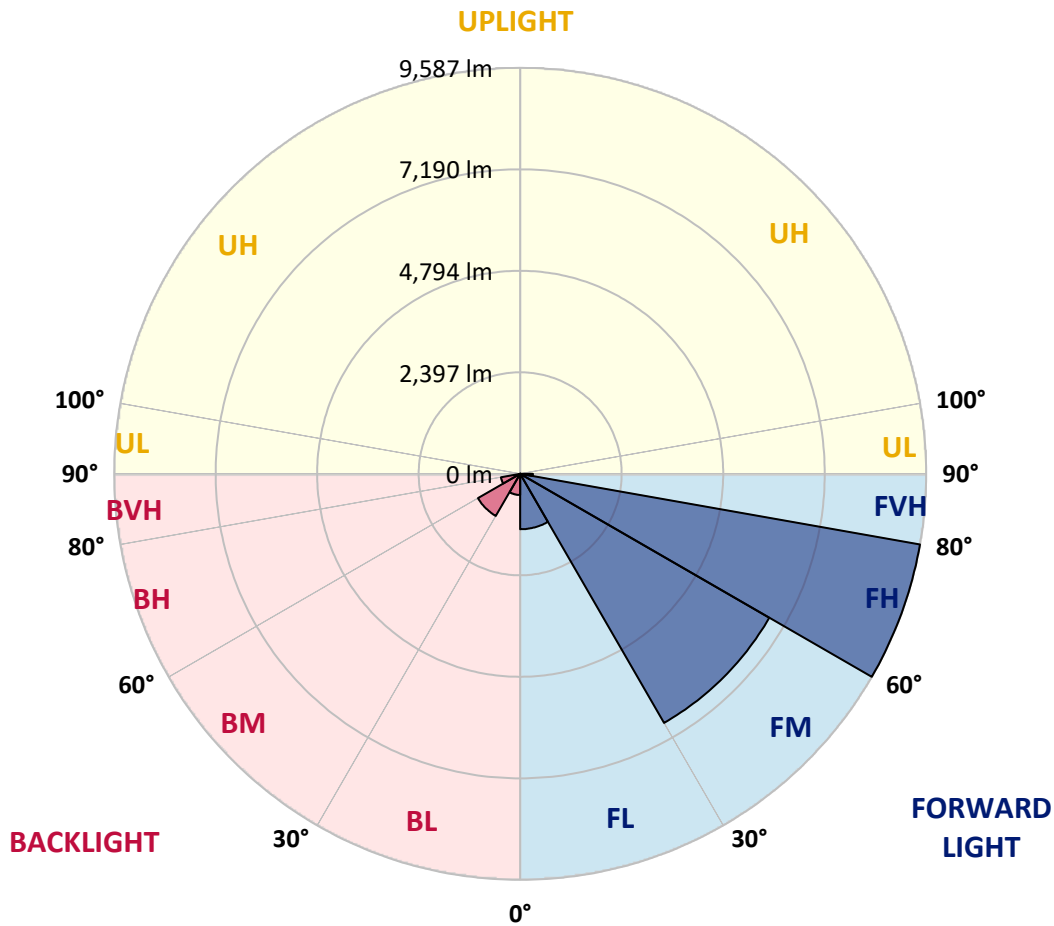
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1309.6	6.5			
FM (30°-60°)	6792.2	33.8			
FH (60°-80°)	9587.0	47.7			G4/12000
FVH (80°-90°)	302.8	1.5			G3/500
BL (0°-30°)	500.3	2.5	B2/1000		
BM (30°-60°)	1148.8	5.7	B2/2500		
BH (60°-80°)	460.6	2.3	B1/500		G1/500
BVH (80°-90°)	2.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	2202.4	2202.4	2202.4	2202.4	2202.4	2202.4	2202.4	2202.4	2202.4	2202.4
2.5°	2405.5	2409.6	2406.9	2390.4	2363.0	2347.9	2339.7	2312.2	2294.4	2262.8
5°	2626.5	2642.9	2633.3	2600.4	2548.2	2511.2	2500.2	2443.9	2393.2	2334.2
7.5°	2861.1	2869.3	2851.5	2809.0	2739.0	2675.9	2666.3	2588.0	2507.1	2416.5
10°	3064.2	3073.8	3046.4	2984.6	2905.0	2826.8	2813.1	2726.6	2630.6	2519.4
12.5°	3234.4	3244.0	3208.3	3134.2	3046.4	2965.4	2951.7	2861.1	2755.4	2631.9
15°	3363.3	3381.2	3333.2	3253.6	3158.9	3077.9	3071.1	2981.9	2878.9	2741.7
17.5°	3438.8	3456.7	3411.4	3315.3	3234.4	3165.7	3157.5	3083.4	2987.4	2855.6
20°	3451.2	3467.6	3419.6	3335.9	3268.7	3213.8	3209.7	3156.1	3086.2	2959.9
22.5°	3414.1	3434.7	3390.8	3323.6	3276.9	3248.1	3242.6	3212.4	3172.6	3065.6
25°	3375.7	3392.2	3359.2	3300.2	3275.5	3272.8	3276.9	3271.4	3263.2	3172.6
27.5°	3373.0	3390.8	3353.7	3297.5	3283.8	3312.6	3316.7	3342.8	3349.6	3270.0
30°	3396.3	3408.6	3373.0	3313.9	3307.1	3373.0	3374.3	3421.0	3432.0	3352.4
32.5°	3447.1	3460.8	3425.1	3338.6	3329.0	3421.0	3425.1	3486.8	3504.7	3440.2
35°	3566.4	3582.9	3541.7	3407.3	3373.0	3466.3	3478.6	3551.3	3587.0	3533.5
37.5°	3864.2	3816.2	3759.9	3545.9	3473.1	3537.6	3558.2	3643.3	3706.4	3644.7
40°	4603.8	4452.9	4277.3	3781.9	3648.8	3689.9	3706.4	3791.5	3877.9	3817.6
42.5°	5714.0	5535.6	5252.9	4325.3	3913.6	3934.2	3946.5	4020.6	4142.8	4094.7
45°	6703.4	6638.9	6350.7	5252.9	4409.0	4307.4	4322.5	4361.0	4540.7	4522.9
47.5°	7463.6	7426.5	7204.2	6317.8	5246.1	4764.4	4806.9	4824.8	5084.1	5147.3
50°	8048.2	8034.4	7835.5	7264.6	6339.7	5438.2	5453.3	5414.8	5803.2	5959.6
52.5°	8599.8	8646.4	8499.6	8144.2	7507.5	6320.5	6317.8	6136.6	6660.8	6896.8
55°	9097.9	9114.4	9129.5	9041.7	8682.1	7325.0	7298.9	7002.5	7655.7	7900.0
57.5°	9565.8	9572.7	9707.2	9886.9	9904.8	8403.6	8355.5	8000.1	8742.5	8916.8
60°	9880.1	9911.6	10195.7	10695.2	10913.4	9516.4	9490.4	9128.1	9848.5	9929.5
62.5°	9427.2	9619.4	10335.7	11326.4	11865.7	10750.1	10737.7	10397.4	11012.2	10946.3
65°	7631.0	7956.2	9215.9	11753.2	12800.2	12127.8	12145.6	11783.4	12207.4	11993.3
67.5°	5338.0	5681.0	7171.3	11787.5	13844.5	13745.7	13848.6	13280.5	13476.7	12996.4
70°	3691.3	3868.3	4838.5	11049.2	14658.2	15974.2	15971.4	15119.3	14739.2	13453.4
72.5°	2482.4	2574.3	3142.4	8765.8	14059.9	17298.4	17218.8	16524.4	15164.6	12582.0
75°	1047.0	1114.3	1454.6	4926.3	11123.3	15826.0	15610.5	14603.3	13474.0	9907.5
77.5°	332.1	360.9	573.6	1763.3	6127.0	11895.9	11668.1	9119.9	9030.7	4970.2
80°	157.8	183.9	322.5	708.1	2411.0	6470.1	6438.5	4137.3	3884.8	1342.0
82.5°	68.6	81.0	178.4	378.7	1078.6	2308.1	2354.8	1407.9	1165.0	509.1
85°	22.0	28.8	82.3	174.3	455.6	573.6	566.7	334.8	469.3	277.2
87.5°	0.0	0.0	27.4	39.8	46.7	32.9	37.1	28.8	130.4	76.8
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°
2202.4	0°	2202.4	2202.4	2202.4	2202.4	2202.4	2202.4	2202.4	2202.4	2202.4	2202.4
2229.9	2.5°	2213.4	2191.5	2153.0	2117.4	2085.8	2054.2	2035.0	2007.6	2004.8	2004.8
2265.6	5°	2228.5	2192.8	2124.2	2051.5	1967.8	1888.2	1808.6	1731.8	1707.1	1689.2
2323.2	7.5°	2272.4	2216.2	2107.8	1969.2	1810.0	1635.7	1513.6	1381.8	1331.1	1303.6
2400.0	10°	2335.5	2258.7	2094.0	1851.1	1593.2	1355.8	1181.5	1038.8	983.9	960.6
2483.7	12.5°	2405.5	2310.8	2069.3	1704.3	1355.8	1071.7	901.6	835.7	827.5	827.5
2583.9	15°	2489.2	2374.0	2026.8	1531.4	1107.4	848.0	787.7	790.4	798.6	804.1
2681.3	17.5°	2575.7	2441.2	1959.6	1337.9	887.8	763.0	764.3	768.5	775.3	780.8
2787.0	20°	2669.0	2508.4	1870.4	1132.1	761.6	738.3	742.4	746.5	752.0	754.7
2885.8	22.5°	2769.2	2571.6	1764.7	930.4	719.1	717.7	719.1	723.2	730.0	730.0
3001.1	25°	2876.2	2641.6	1643.9	783.5	697.1	697.1	699.8	702.6	708.1	708.1
3112.2	27.5°	2986.0	2706.0	1516.3	706.7	677.9	676.5	676.5	680.6	683.4	684.7
3222.0	30°	3106.7	2781.5	1388.7	690.2	662.8	655.9	651.8	654.6	657.3	658.7
3337.3	32.5°	3230.2	2854.2	1274.8	697.1	647.7	635.3	621.6	618.9	618.9	624.4
3456.7	35°	3367.5	2933.8	1187.0	720.4	639.5	605.2	583.2	570.8	572.2	580.5
3599.4	37.5°	3532.1	3029.9	1122.5	741.0	634.0	570.8	535.2	520.1	510.5	520.1
3795.6	40°	3747.6	3171.2	1075.8	757.5	627.1	531.1	483.0	458.3	440.5	446.0
4100.2	42.5°	4064.6	3393.5	1058.0	758.8	612.0	484.4	429.5	396.6	370.5	371.9
4558.6	45°	4509.2	3744.8	1149.9	741.0	579.1	433.6	373.2	329.3	312.9	308.8
5243.3	47.5°	5118.4	4256.7	1362.6	704.0	531.1	384.2	318.4	281.3	269.0	262.1
6142.1	50°	5934.9	4914.0	1598.7	662.8	483.0	337.6	273.1	249.7	241.5	234.7
7208.3	52.5°	6881.8	5580.9	1792.1	621.6	435.0	296.4	244.3	230.5	223.7	218.2
8237.5	55°	7750.4	6040.6	1781.2	577.7	388.3	263.5	223.7	215.4	207.2	201.7
9124.0	57.5°	8291.0	6105.1	1468.3	529.7	334.8	237.4	204.5	199.0	189.4	182.5
9891.1	60°	8539.4	5737.3	1029.2	466.6	281.3	212.7	183.9	181.1	168.8	159.2
10617.0	62.5°	8584.7	5053.9	686.1	388.3	234.7	189.4	163.3	159.2	142.7	126.2
11207.0	65°	8400.8	4076.9	474.8	303.3	200.3	164.7	140.0	131.7	113.9	97.4
11347.0	67.5°	7819.0	2862.5	330.7	218.2	170.2	130.4	111.2	108.4	94.7	81.0
10633.4	70°	6752.8	1631.6	220.9	163.3	134.5	89.2	87.8	90.6	76.8	65.9
8687.6	72.5°	5177.4	746.5	137.2	119.4	91.9	60.4	70.0	71.4	59.0	49.4
5420.3	75°	3047.7	319.7	86.5	76.8	46.7	39.8	50.8	52.1	39.8	31.6
1981.5	77.5°	1037.4	120.8	54.9	45.3	23.3	22.0	32.9	32.9	22.0	12.4
397.9	80°	236.0	45.3	27.4	17.8	11.0	9.6	11.0	9.6	5.5	1.4
122.1	82.5°	67.2	17.8	11.0	6.9	4.1	4.1	1.4	0.0	0.0	0.0
42.5	85°	19.2	8.2	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0
15.1	87.5°	8.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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

180°
2202.4
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