

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: P943546

Luminaire Tested: **GALN-SB8A-827-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943546  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8A-827-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

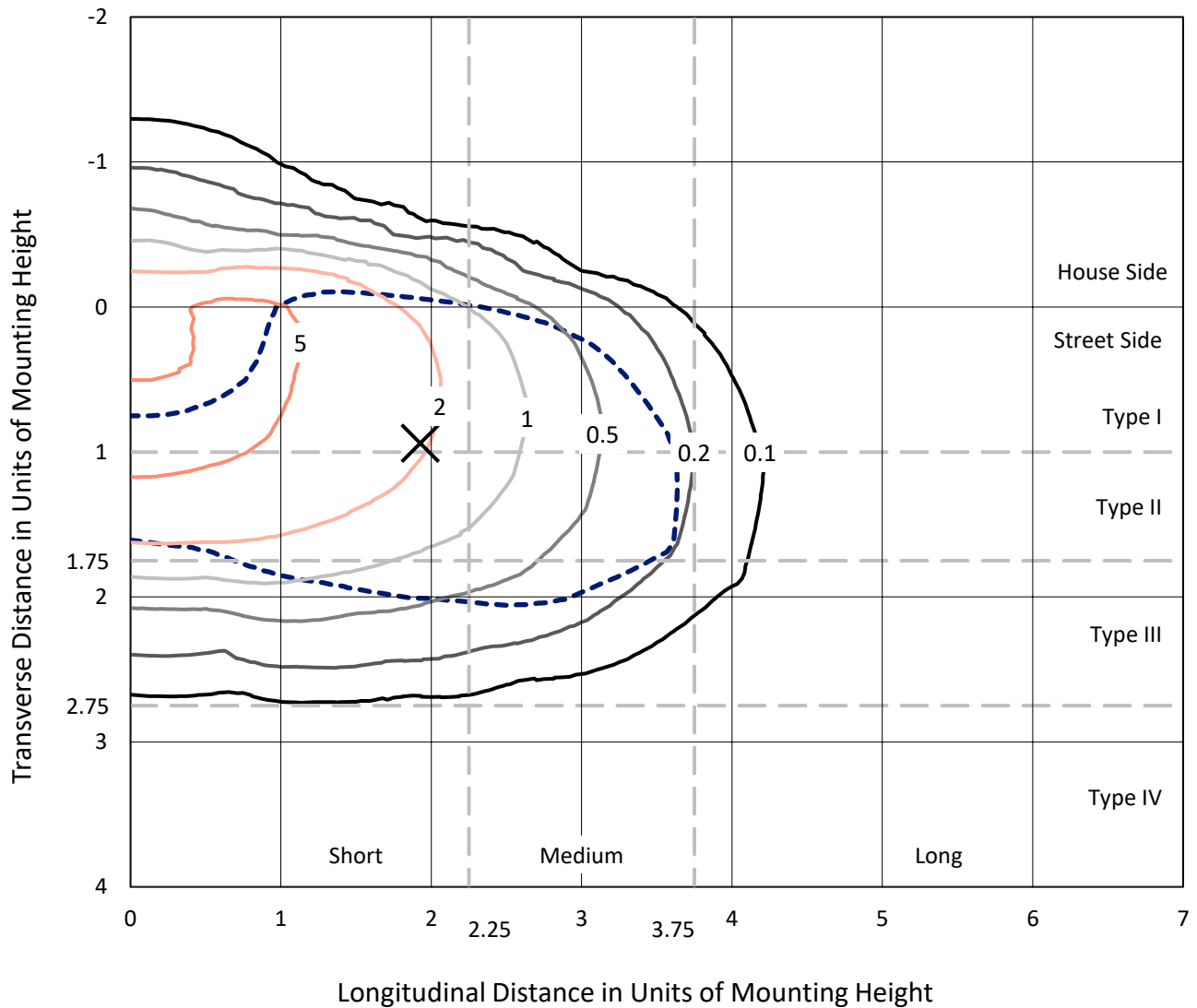
Lumens per Lamp: N/A  
Luminaire Lumens: 24737 lumens  
Efficiency: N/A  
Efficacy: 108.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 227.1  
Input Voltage (V): NR  
Input Current (Ain): 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

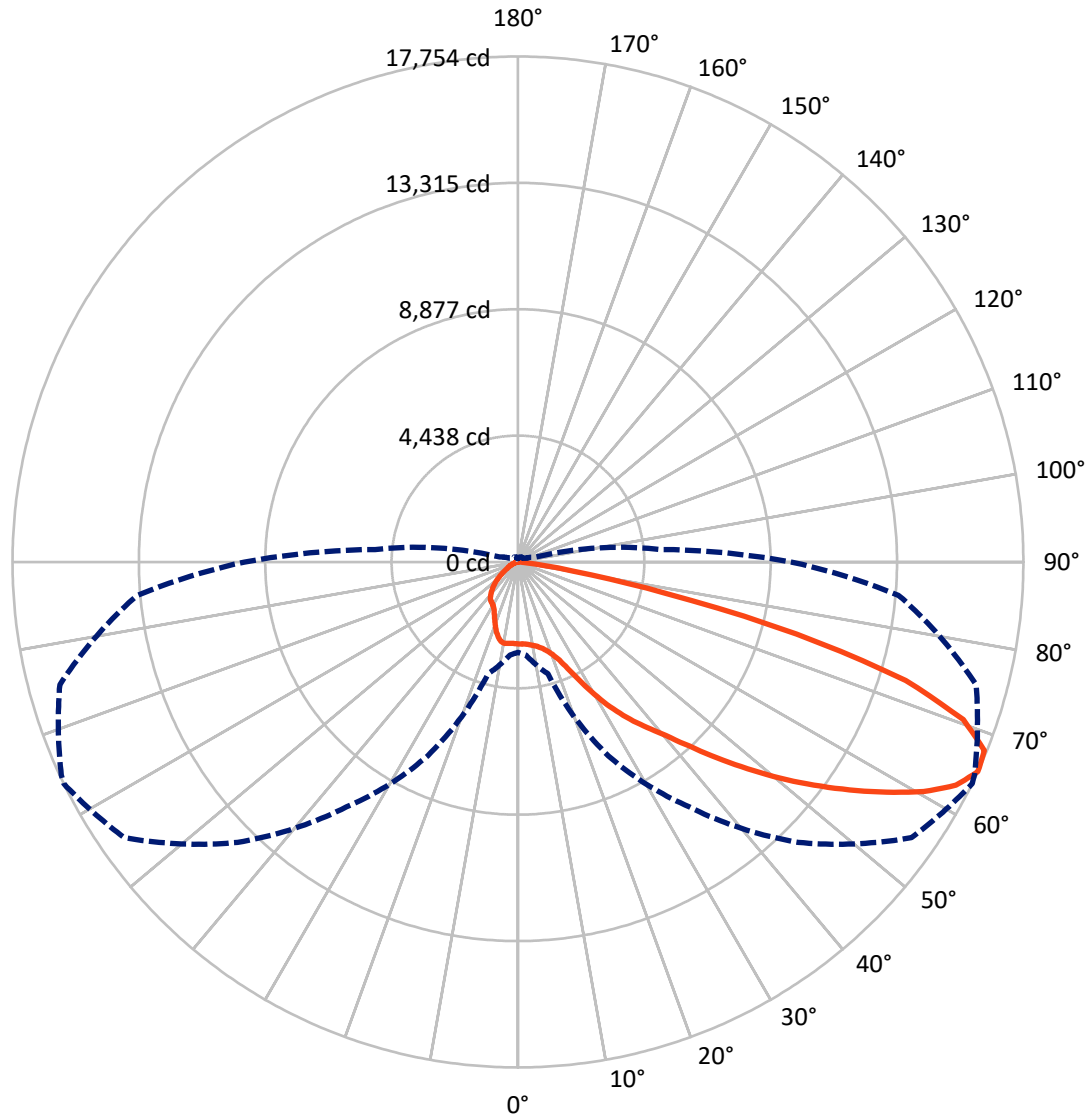
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3308.1	0.0	3308.1
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	21428.9	0.0	21428.9
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	24737.0	0.0	24737.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	265.5	1.1
10°-20°	720.0	2.9
20°-30°	1364.3	5.5
30°-40°	2760.7	11.2
40°-50°	4702.8	19.0
50°-60°	6395.5	25.9
60°-70°	6005.7	24.3
70°-80°	2406.1	9.7
80°-90°	116.6	0.5
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°	24737.0	100.0
0°-180°	24737.0	100.0

**Coefficient of Utilization**



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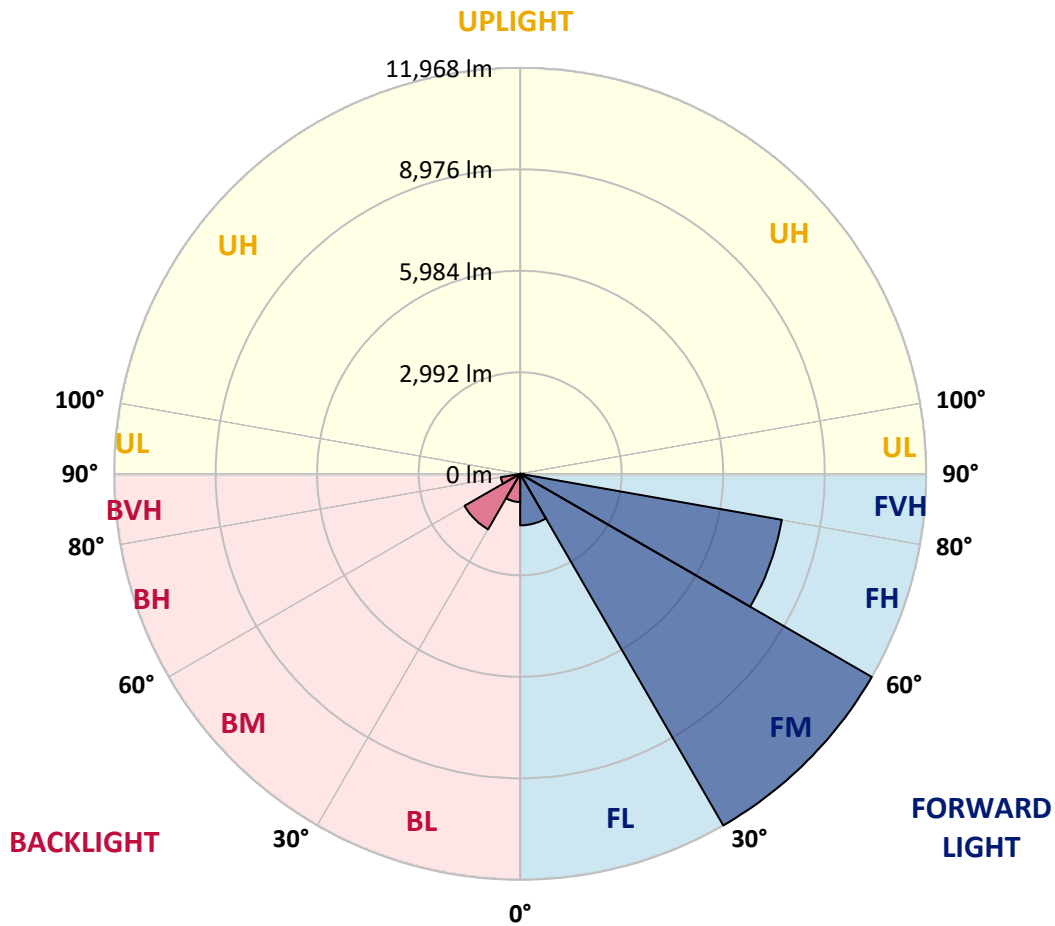
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1519.1	6.1			
FM (30°-60°)	11967.7	48.4			
FH (60°-80°)	7831.2	31.7			G4/12000
FVH (80°-90°)	110.9	0.4			G2/225
BL (0°-30°)	830.6	3.4	B2/1000		
BM (30°-60°)	1891.2	7.6	B2/2500		
BH (60°-80°)	580.6	2.3	B2/1000		G2/1000
BVH (80°-90°)	5.7	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 III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	2877.2	2877.2	2877.2	2877.2	2877.2	2877.2	2877.2	2877.2	2877.2	2877.2
2.5°	2867.2	2887.1	2882.1	2877.2	2875.5	2878.8	2880.5	2878.8	2878.8	2878.8
5°	2812.5	2829.1	2829.1	2840.7	2857.3	2877.2	2892.1	2895.4	2898.7	2903.7
7.5°	2708.0	2721.3	2731.2	2769.4	2810.8	2863.9	2908.7	2931.9	2935.2	2953.5
10°	2636.7	2653.3	2669.9	2709.7	2769.4	2849.0	2925.3	2981.6	2989.9	3033.1
12.5°	2633.4	2650.0	2671.5	2714.7	2784.3	2868.9	2961.7	3043.0	3057.9	3120.9
15°	2668.2	2688.1	2708.0	2761.1	2835.7	2938.5	3038.0	3139.2	3154.1	3243.7
17.5°	2739.5	2766.1	2781.0	2834.1	2913.7	3028.1	3159.1	3275.2	3288.4	3392.9
20°	2880.5	2912.0	2917.0	2960.1	3038.0	3160.7	3316.6	3460.9	3477.5	3596.9
22.5°	3172.3	3217.1	3177.3	3198.9	3268.5	3391.2	3560.4	3742.8	3766.0	3902.0
25°	3686.4	3749.4	3646.6	3610.1	3640.0	3767.7	3979.9	4210.5	4237.0	4346.4
27.5°	4696.3	4615.1	4459.2	4306.6	4217.1	4290.1	4528.8	4814.1	4847.2	4953.4
30°	5805.7	5734.4	5523.8	5185.5	4973.3	4961.7	5182.2	5500.6	5538.8	5639.9
32.5°	6916.8	6848.8	6620.0	6203.7	5835.6	5653.2	5805.7	6159.0	6178.9	6243.5
35°	8009.6	7940.0	7711.1	7285.0	6832.2	6417.7	6387.8	6785.8	6792.4	6860.4
37.5°	9109.1	9051.1	8807.3	8389.4	7943.3	7371.2	7094.3	7379.5	7387.8	7454.1
40°	9893.5	9918.4	9750.9	9427.5	9044.4	8419.2	7886.9	8011.3	7961.6	8072.7
42.5°	10566.8	10616.5	10470.6	10308.1	10085.8	9535.3	8868.6	8847.1	8767.5	8827.2
45°	11148.8	11190.3	11059.3	11021.1	11016.2	10629.8	9941.6	9812.2	9701.1	9689.5
47.5°	11362.7	11442.3	11498.7	11626.4	11875.2	11712.7	11051.0	10850.3	10726.0	10634.7
50°	11444.0	11528.6	11720.9	12092.4	12681.1	12750.8	12155.4	11929.9	11777.3	11611.5
52.5°	11334.6	11485.5	11744.2	12369.3	13223.4	13583.2	13215.1	13017.7	12843.6	12573.3
55°	10689.5	10840.4	11369.4	12366.0	13493.7	14167.0	14216.7	14128.8	13933.1	13506.9
57.5°	9329.7	9553.5	10391.0	11944.8	13488.7	14669.4	15198.4	15261.4	15042.5	14432.3
60°	7445.8	7749.3	8770.8	11011.2	13072.5	14941.4	16059.1	16374.2	16142.0	15344.4
62.5°	5195.5	5547.1	6513.8	9548.6	12120.6	14745.7	16687.6	17269.7	17093.9	16160.2
65°	3169.0	3281.8	4061.2	7513.8	10502.1	13926.5	16881.6	17753.9	17695.8	16659.4
67.5°	2111.0	2205.6	2429.4	5152.4	8152.3	12289.7	16417.3	17669.3	17685.9	16578.1
70°	1271.9	1353.2	1499.1	2996.6	5283.4	9727.7	14979.5	16591.4	16687.6	15491.9
72.5°	524.0	578.8	711.4	1358.2	2736.2	6173.9	11928.2	14244.9	14468.8	13026.0
75°	296.8	325.0	417.9	681.6	1187.4	2877.2	7225.3	10112.4	10442.4	8978.1
77.5°	197.3	210.6	270.3	441.1	668.3	981.7	3087.8	5268.5	5898.6	4903.6
80°	132.7	144.3	185.7	295.2	434.5	421.2	983.4	1951.8	2401.2	1684.8
82.5°	89.5	91.2	132.7	194.0	275.3	204.0	290.2	606.9	762.8	487.5
85°	51.4	49.7	97.8	112.8	122.7	84.6	87.9	182.4	238.8	205.6
87.5°	6.6	9.9	38.1	29.8	16.6	18.2	18.2	31.5	46.4	49.7
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°
2877.2	0°	2877.2	2877.2	2877.2	2877.2	2877.2	2877.2	2877.2	2877.2	2877.2	2877.2
2880.5	2.5°	2880.5	2878.8	2873.9	2868.9	2857.3	2850.6	2854.0	2850.6	2849.0	2850.6
2902.0	5°	2902.0	2897.1	2883.8	2867.2	2844.0	2815.8	2797.6	2771.0	2746.2	2731.2
2960.1	7.5°	2960.1	2955.1	2936.9	2890.4	2815.8	2698.1	2590.3	2495.8	2424.5	2383.0
3053.0	10°	3053.0	3044.7	3016.5	2913.7	2718.0	2460.9	2247.0	2069.6	1953.5	1898.8
3162.4	12.5°	3162.4	3152.4	3102.7	2892.1	2532.2	2130.9	1835.8	1638.4	1530.6	1482.5
3288.4	15°	3291.7	3278.5	3180.6	2789.3	2261.9	1766.1	1495.8	1348.2	1278.6	1235.4
3449.3	17.5°	3452.6	3429.4	3238.7	2635.1	1968.4	1487.5	1286.8	1175.7	1114.4	1072.9
3659.9	20°	3661.6	3623.4	3285.1	2451.0	1698.1	1311.7	1145.9	1053.0	1006.6	970.1
3958.4	22.5°	3953.4	3898.7	3341.5	2252.0	1507.4	1190.7	1041.4	973.4	935.3	893.8
4374.6	25°	4314.9	4250.3	3411.1	2067.9	1376.4	1086.2	965.1	908.8	864.0	815.9
4920.2	27.5°	4820.7	4704.6	3494.1	1917.0	1263.6	996.6	895.5	832.5	781.1	741.3
5538.8	30°	5384.5	5193.8	3567.0	1825.8	1160.8	913.7	804.3	741.3	693.2	665.0
6094.3	32.5°	5918.5	5659.8	3615.1	1786.0	1068.0	819.2	704.8	636.8	600.3	592.0
6638.2	35°	6422.6	6081.0	3610.1	1747.9	985.0	724.7	606.9	537.3	509.1	514.1
7223.6	37.5°	7003.0	6530.4	3575.3	1688.2	917.0	638.4	522.4	461.0	436.1	437.8
7935.0	40°	7678.0	7049.5	3553.8	1575.4	842.4	558.9	452.7	403.0	384.7	378.1
8684.6	42.5°	8397.7	7551.9	3557.1	1447.7	749.6	487.5	404.6	363.2	346.6	341.6
9518.7	45°	9120.7	8031.2	3562.1	1315.0	651.7	432.8	369.8	335.0	325.0	318.4
10364.4	47.5°	9800.6	8439.1	3469.2	1172.4	555.5	391.4	341.6	318.4	310.1	301.8
11213.5	50°	10434.1	8711.1	3245.3	1006.6	479.3	358.2	320.1	303.5	295.2	286.9
11983.0	52.5°	10926.6	8754.2	2875.5	835.8	426.2	333.3	306.8	291.9	281.9	273.6
12604.8	55°	11145.5	8483.9	2349.8	676.6	384.7	311.8	293.5	278.6	267.0	258.7
13094.0	57.5°	11089.1	7915.1	1832.4	543.9	344.9	290.2	276.9	267.0	253.7	240.5
13490.4	60°	10812.2	7154.0	1381.4	452.7	308.4	267.0	258.7	250.4	232.2	212.3
13642.9	62.5°	10332.9	6197.1	985.0	374.8	268.6	240.5	237.1	230.5	204.0	167.5
13417.4	65°	9600.0	5034.6	663.3	311.8	230.5	210.6	212.3	200.7	165.8	124.4
12591.6	67.5°	8528.7	3681.5	424.5	255.4	192.4	175.8	177.4	170.8	141.0	106.1
11026.1	70°	7163.9	2437.7	276.9	194.0	154.2	136.0	145.9	147.6	119.4	86.2
8462.4	72.5°	5251.9	1439.4	194.0	144.3	112.8	94.5	119.4	122.7	96.2	64.7
5091.0	75°	2993.3	683.2	145.9	104.5	69.6	66.3	92.9	92.9	66.3	43.1
2203.9	77.5°	1257.0	285.2	102.8	68.0	39.8	38.1	63.0	58.0	33.2	19.9
537.3	80°	363.2	127.7	54.7	33.2	16.6	14.9	24.9	18.2	8.3	3.3
204.0	82.5°	142.6	56.4	21.6	13.3	6.6	6.6	3.3	0.0	0.0	0.0
116.1	85°	84.6	23.2	9.9	5.0	1.7	0.0	0.0	0.0	0.0	0.0
24.9	87.5°	21.6	5.0	3.3	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°
2877.2
2857.3
2734.6
2384.7
1893.8
1477.6
1237.1
1069.6
963.5
887.2
810.9
733.0
660.0
597.0
514.1
444.4
376.4
340.0
318.4
301.8
286.9
272.0
257.0
238.8
208.9
164.2
121.1
101.2
82.9
61.4
39.8
19.9
3.3
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