

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: P944278

Luminaire Tested: **GALN-SB9A-927-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944278  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9A-927-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

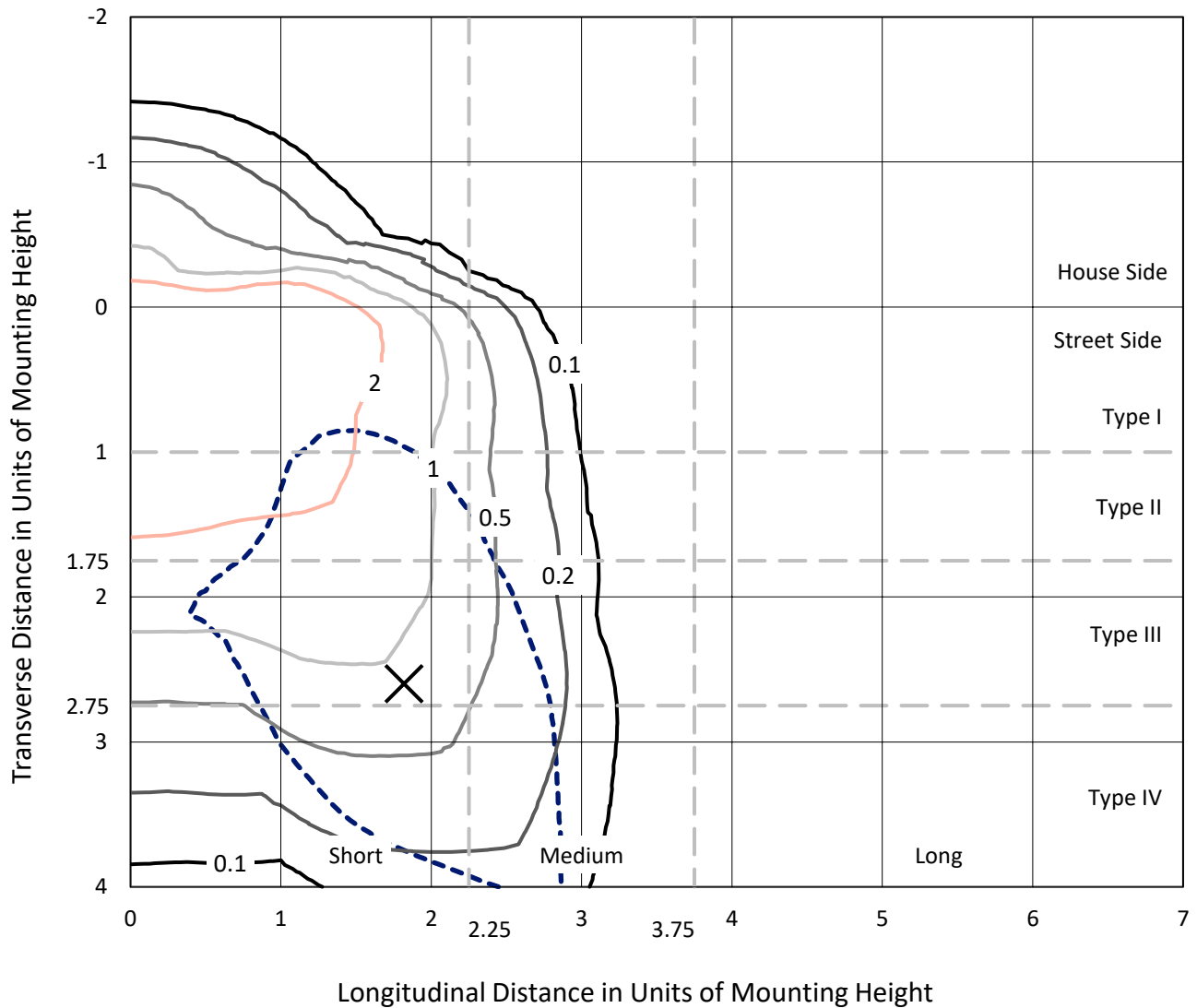
Lumens per Lamp: N/A  
Luminaire Lumens: 18830 lumens  
Efficiency: N/A  
Efficacy: 73.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

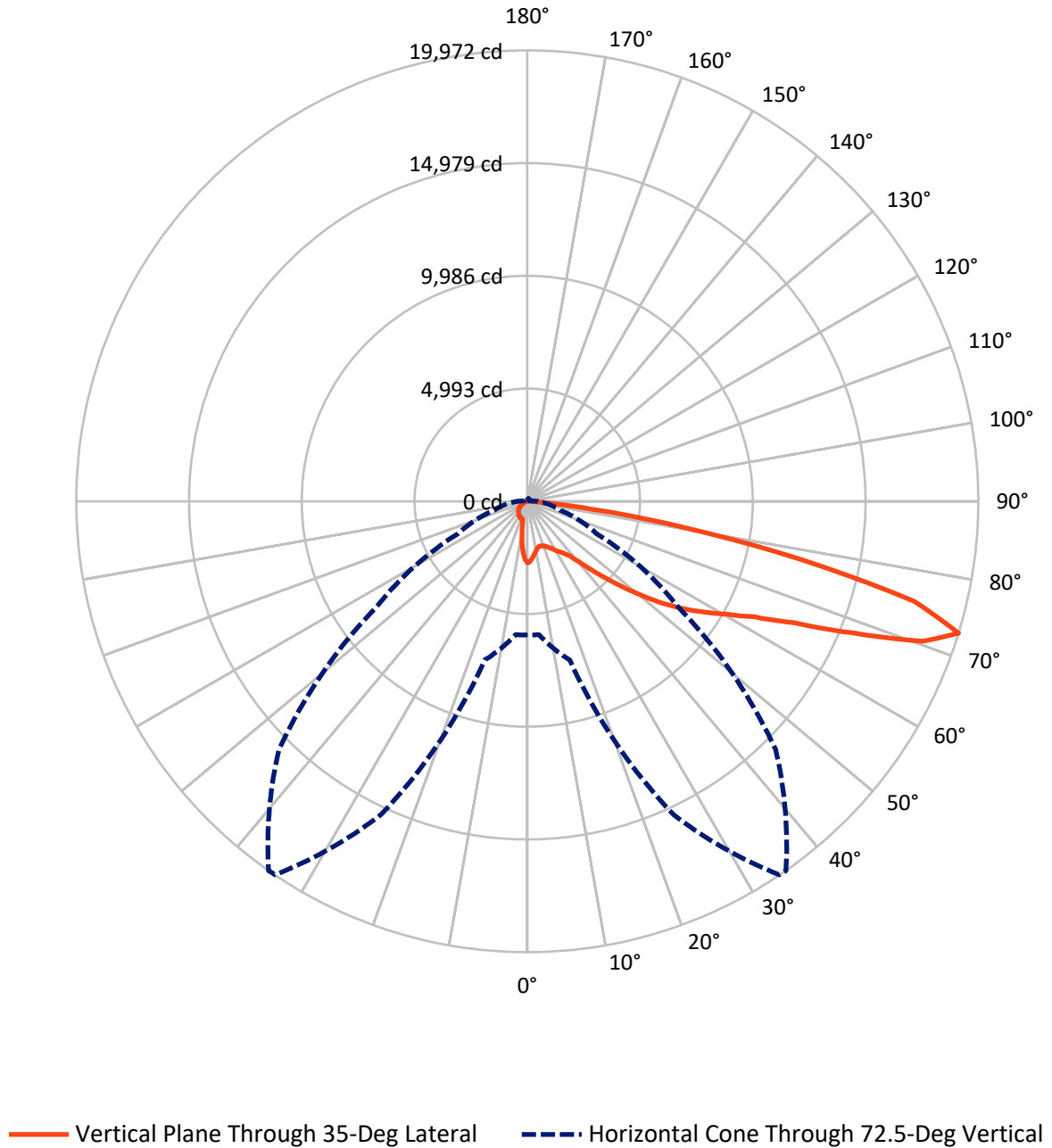
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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	2119.2	0.0	2119.2
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	16710.8	0.0	16710.8
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	18830.0	0.0	18830.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	224.3	1.2
10°-20°	524.6	2.8
20°-30°	852.2	4.5
30°-40°	1422.0	7.6
40°-50°	2690.4	14.3
50°-60°	4275.0	22.7
60°-70°	5288.5	28.1
70°-80°	3287.4	17.5
80°-90°	265.7	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°	18830.0	100.0
0°-180°	18830.0	100.0

**Coefficient of Utilization**



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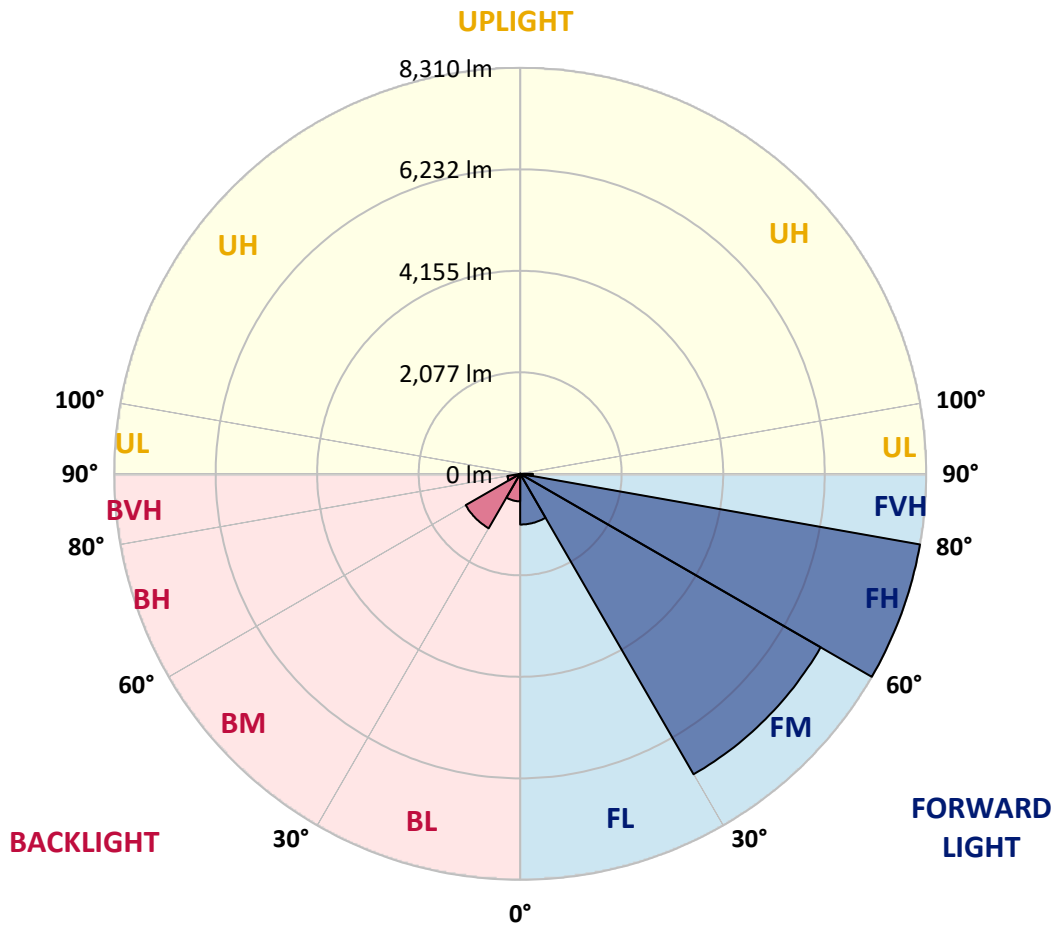
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1038.0	5.5			
FM (30°-60°)	7100.8	37.7			
FH (60°-80°)	8309.9	44.1			G4/12000
FVH (80°-90°)	262.1	1.4			G3/500
BL (0°-30°)	563.1	3.0	B2/1000		
BM (30°-60°)	1286.6	6.8	B2/2500		
BH (60°-80°)	265.9	1.4	B1/500		G1/500
BVH (80°-90°)	3.6	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°	34°	35°	45°	55°	65°	75°
0°	2729.1	2729.1	2729.1	2729.1	2729.1	2729.1	2729.1	2729.1	2729.1	2729.1
2.5°	2607.7	2629.8	2633.9	2640.8	2640.8	2649.1	2662.9	2682.2	2713.9	2730.5
5°	2403.5	2420.0	2440.7	2457.3	2489.0	2493.2	2547.0	2599.4	2672.5	2727.7
7.5°	2197.9	2217.2	2244.8	2284.8	2326.2	2338.6	2420.0	2508.3	2624.2	2727.7
10°	2053.0	2054.4	2079.2	2119.3	2185.5	2200.7	2300.0	2425.6	2570.4	2711.2
12.5°	1971.6	1981.3	1992.3	2022.7	2086.1	2095.8	2202.0	2349.7	2516.6	2701.5
15°	1971.6	1978.5	1985.4	2000.6	2051.7	2059.9	2153.8	2301.4	2489.0	2705.6
17.5°	1992.3	2003.4	1997.8	2015.8	2069.6	2075.1	2157.9	2287.6	2487.6	2731.9
20°	2042.0	2050.3	2039.2	2050.3	2104.1	2115.1	2200.7	2313.8	2511.1	2777.4
22.5°	2120.6	2124.8	2098.6	2106.8	2162.0	2175.8	2275.2	2388.3	2567.7	2850.5
25°	2220.0	2228.3	2188.2	2197.9	2250.3	2266.9	2381.4	2500.1	2657.4	2951.2
27.5°	2334.5	2338.6	2304.1	2302.8	2370.4	2393.8	2509.7	2638.0	2777.4	3078.2
30°	2465.6	2478.0	2444.9	2439.4	2524.9	2544.2	2658.7	2807.7	2954.0	3268.6
32.5°	2569.1	2578.7	2559.4	2573.2	2660.1	2675.3	2839.5	3047.8	3231.3	3539.0
35°	2718.1	2723.6	2679.4	2704.3	2803.6	2842.2	3086.4	3384.5	3580.4	3878.4
37.5°	3257.5	3257.5	3069.9	2947.1	3042.3	3076.8	3424.5	3808.0	4010.9	4333.7
40°	4004.0	3991.5	3717.0	3465.9	3453.5	3521.1	3906.0	4342.0	4566.9	4880.1
42.5°	4800.1	4780.8	4406.8	4158.5	4117.1	4140.6	4462.0	5000.1	5229.2	5546.5
45°	5506.5	5501.0	5158.8	4824.9	4750.4	4824.9	5156.0	5770.0	5934.2	6268.1
47.5°	6098.4	6098.4	5848.7	5630.7	5592.0	5636.2	6095.6	6624.1	6608.9	7036.6
50°	6780.0	6774.5	6537.1	6443.3	6483.3	6545.4	7177.3	7523.6	7307.0	7791.3
52.5°	7257.4	7290.5	7209.1	7193.9	7398.1	7505.7	8275.6	8403.9	7932.0	8507.4
55°	7635.4	7674.0	7767.9	7874.1	8267.3	8408.1	9339.4	9238.6	8455.0	9128.3
57.5°	8170.7	8115.5	8260.4	8470.1	9106.2	9275.9	10370.0	10026.5	8875.8	9631.9
60°	8820.6	8828.9	8853.7	9118.6	9943.7	10161.7	11385.5	10771.5	9146.2	9940.9
62.5°	9601.5	9613.9	9665.0	10072.0	11068.2	11273.7	12467.2	11381.4	9270.4	9854.0
65°	9547.7	9600.1	10170.0	11562.1	12777.6	12980.5	13729.7	11809.1	9082.7	9059.3
67.5°	8697.8	8783.3	9736.7	13342.0	15355.0	15581.2	15255.6	11893.2	8272.8	7044.9
70°	7583.0	7613.3	8759.9	14942.4	18339.3	18568.4	16621.6	10967.4	6277.8	3929.5
72.5°	5921.8	5928.7	7273.9	15313.6	19959.1	19971.5	15549.5	8141.8	3376.2	1509.4
75°	4230.2	4188.8	4871.8	12418.9	17559.8	17700.5	11657.3	3819.1	1290.0	713.3
77.5°	2268.3	2313.8	2756.7	7365.0	12130.6	12370.6	6360.5	1101.0	656.7	485.7
80°	700.9	739.5	1130.0	3372.1	6871.0	7015.9	2358.0	489.8	458.1	346.3
82.5°	220.8	229.0	527.1	1417.0	2851.9	2918.1	683.0	277.3	313.2	229.0
85°	63.5	64.8	234.6	528.4	705.0	718.8	191.8	107.6	179.4	142.1
87.5°	6.9	22.1	88.3	88.3	62.1	60.7	20.7	23.5	51.0	17.9
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°
2729.1	0°	2729.1	2729.1	2729.1	2729.1	2729.1	2729.1	2729.1	2729.1	2729.1	2729.1
2741.5	2.5°	2734.6	2736.0	2718.1	2687.7	2654.6	2627.0	2592.5	2564.9	2545.6	2540.1
2766.4	5°	2753.9	2744.3	2693.2	2600.8	2490.4	2395.2	2289.0	2204.8	2149.6	2126.2
2792.6	7.5°	2782.9	2755.3	2643.6	2461.4	2250.3	2062.7	1872.3	1724.7	1630.8	1583.9
2817.4	10°	2807.7	2752.6	2560.8	2260.0	1937.1	1652.9	1396.3	1218.3	1119.0	1072.0
2846.4	12.5°	2831.2	2751.2	2453.2	2021.3	1583.9	1236.2	997.5	909.2	881.6	872.0
2893.3	15°	2875.3	2755.3	2317.9	1748.1	1232.1	934.1	847.2	845.8	851.3	848.5
2965.0	17.5°	2936.1	2759.5	2164.8	1458.4	950.6	823.7	819.6	832.0	840.3	836.1
3054.7	20°	3014.7	2776.0	2002.0	1171.4	816.8	796.1	805.8	816.8	823.7	816.8
3174.7	22.5°	3125.1	2805.0	1824.0	941.0	774.0	779.5	787.8	800.2	807.1	797.5
3327.9	25°	3260.3	2850.5	1648.8	818.2	753.3	760.2	772.6	786.4	794.7	785.1
3521.1	27.5°	3435.5	2923.6	1487.3	790.6	732.6	736.8	754.7	775.4	786.4	774.0
3795.6	30°	3689.4	3043.7	1348.0	803.0	720.2	710.6	735.4	764.4	776.8	765.7
4169.5	32.5°	4026.0	3213.4	1262.4	822.3	714.7	680.2	703.7	740.9	761.6	754.7
4658.0	35°	4467.6	3471.4	1229.3	844.4	710.6	648.5	665.0	705.0	740.9	747.8
5273.3	37.5°	5002.9	3830.1	1239.0	854.1	698.1	622.3	630.5	665.0	711.9	734.0
5965.9	40°	5611.3	4248.2	1294.2	844.4	684.3	600.2	601.6	627.8	669.2	702.3
6711.0	42.5°	6239.1	4736.6	1396.3	808.5	671.9	580.9	576.7	594.7	622.3	645.7
7454.7	45°	6836.5	5238.8	1497.0	758.8	656.7	561.5	551.9	558.8	564.3	574.0
8179.0	47.5°	7358.1	5592.0	1468.0	713.3	636.1	539.5	522.9	520.2	503.6	502.2
8826.1	50°	7718.2	5669.3	1303.8	667.8	605.7	514.6	488.4	471.9	442.9	429.1
9310.4	52.5°	7832.7	5364.4	1065.1	622.3	556.0	481.5	444.3	418.1	382.2	369.8
9589.1	55°	7680.9	4767.0	851.3	567.1	487.0	437.4	396.0	361.5	332.5	317.3
9619.5	57.5°	7309.8	4006.7	673.3	502.2	413.9	387.7	346.3	311.8	287.0	271.8
9282.8	60°	6694.4	3181.6	532.6	425.0	353.2	333.9	291.1	269.0	247.0	229.0
8413.6	62.5°	5760.4	2271.0	418.1	336.7	295.3	273.2	248.4	231.8	205.6	180.7
6850.3	65°	4495.1	1389.4	322.9	247.0	237.3	226.3	211.1	195.9	164.2	139.4
4468.9	67.5°	2835.3	658.1	230.4	186.3	187.6	182.1	175.2	162.8	139.4	117.3
2002.0	70°	1248.7	318.7	151.8	142.1	139.4	139.4	144.9	140.7	118.7	98.0
695.4	72.5°	425.0	171.1	113.1	107.6	100.7	99.3	121.4	117.3	95.2	75.9
346.3	75°	222.1	114.5	82.8	77.3	60.7	73.1	96.6	91.1	67.6	49.7
229.0	77.5°	144.9	81.4	56.6	49.7	34.5	48.3	71.7	63.5	40.0	24.8
150.4	80°	91.1	53.8	33.1	23.5	16.6	26.2	38.6	27.6	15.2	5.5
88.3	82.5°	48.3	27.6	12.4	8.3	6.9	8.3	9.7	6.9	2.8	0.0
45.5	85°	19.3	9.7	4.1	2.8	1.4	0.0	2.8	1.4	0.0	0.0
8.3	87.5°	6.9	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

<u>180°</u>
2729.1
2549.7
2134.4
1590.8
1073.4
869.2
847.2
834.7
815.4
796.1
783.7
774.0
764.4
754.7
747.8
739.5
713.3
655.4
579.5
500.8
430.5
368.4
317.3
269.0
224.9
176.6
135.2
114.5
93.8
71.7
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