

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: P944298

Luminaire Tested: **GALN-SB9A-935-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944298
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-935-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 3500K, 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: 21520 lumens
Efficiency: N/A
Efficacy: 84.2 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

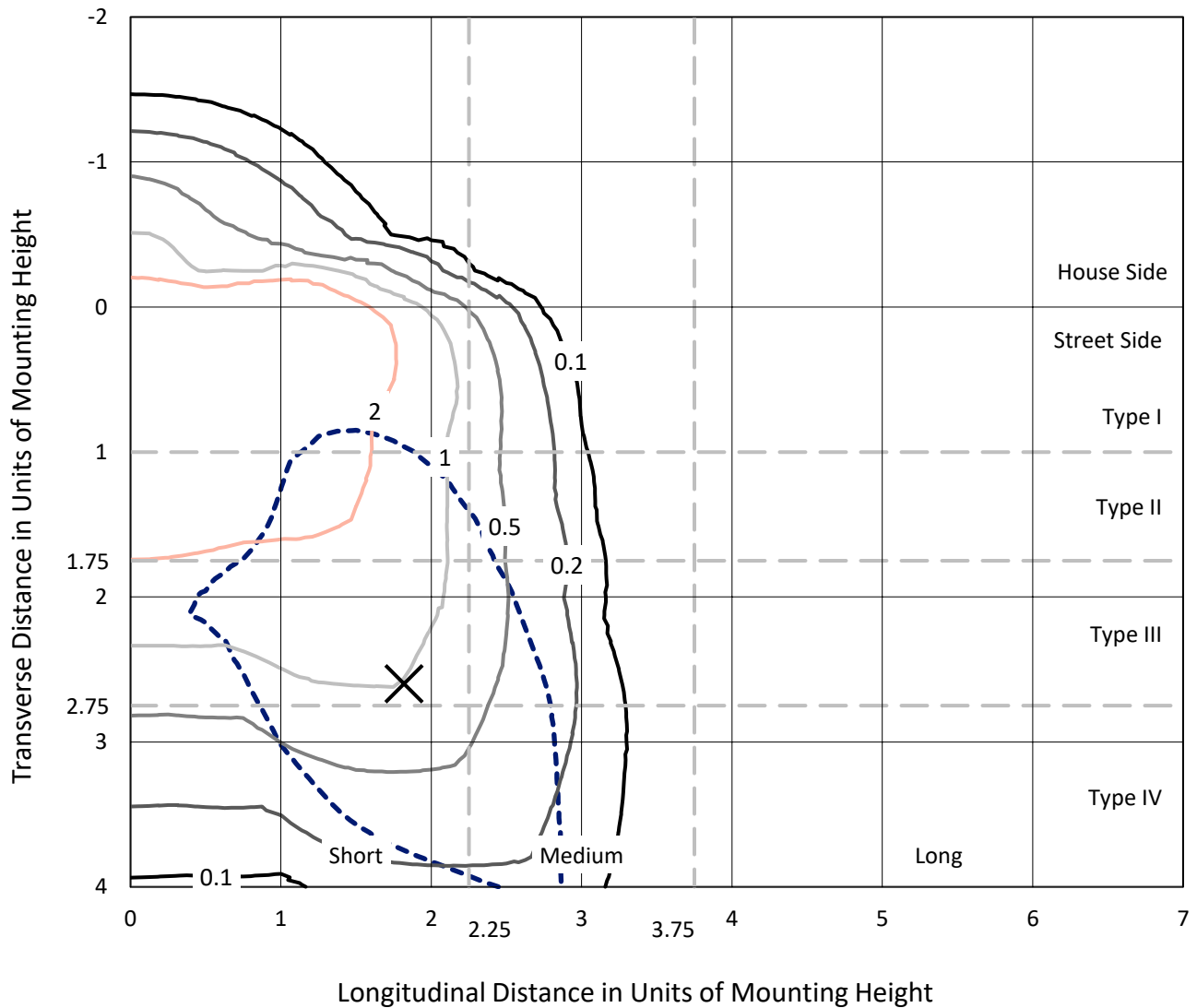
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SB9A-935-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

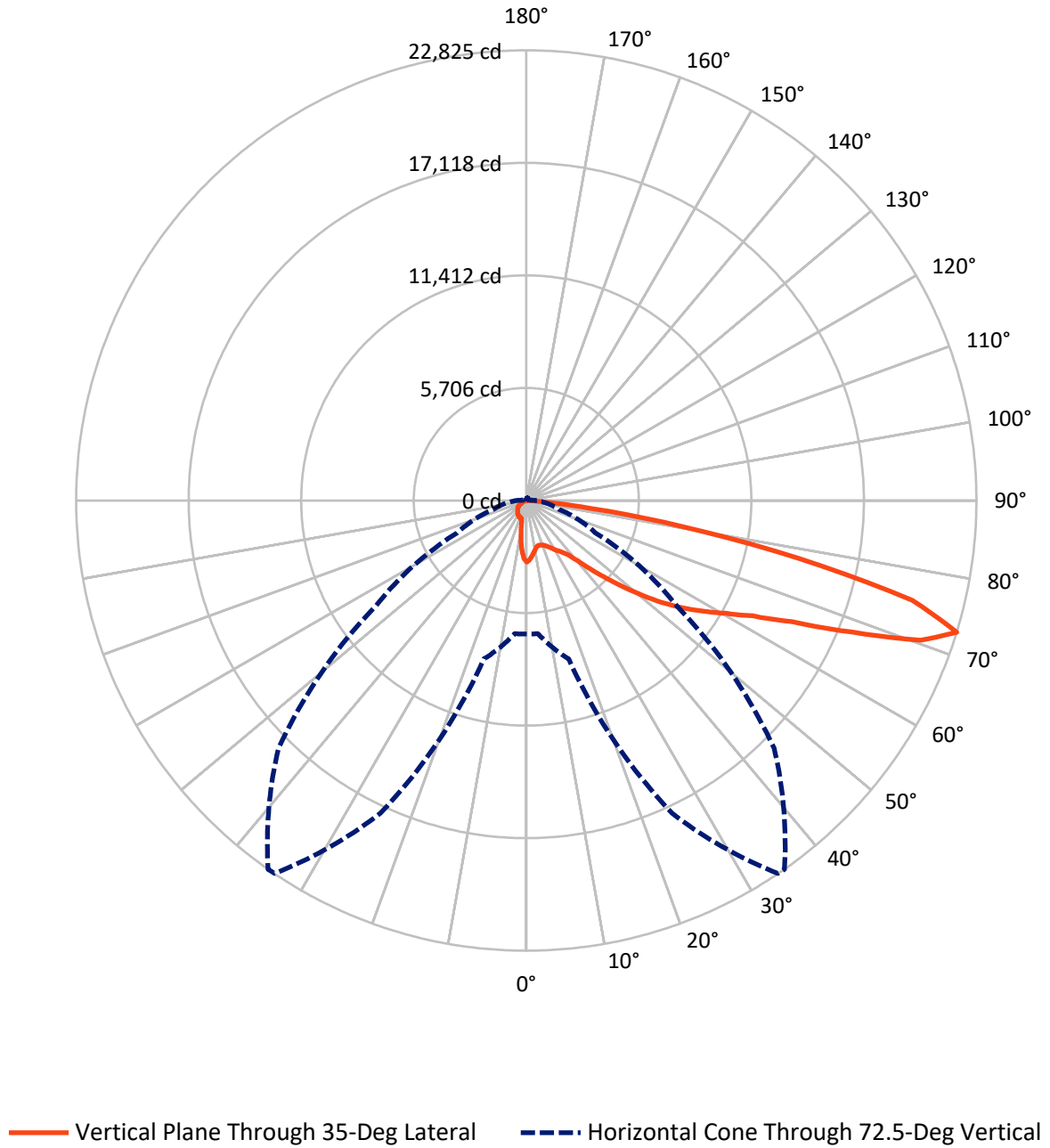
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Short - N/A

REPORT NUMBER: P944298
CATALOG NUMBER: GALN-SB9A-935-U-T4FT-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2422.0	0.0	2422.0
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	19098.0	0.0	19098.0
	% Fixture	88.7	0.0	88.7
Total	Lumens	21520.0	0.0	21520.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.3	1.2
10°-20°	599.6	2.8
20°-30°	974.0	4.5
30°-40°	1625.1	7.6
40°-50°	3074.7	14.3
50°-60°	4885.7	22.7
60°-70°	6044.0	28.1
70°-80°	3757.0	17.5
80°-90°	303.6	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°	21520.0	100.0
0°-180°	21520.0	100.0

Coefficient of Utilization



REPORT NUMBER: P944298

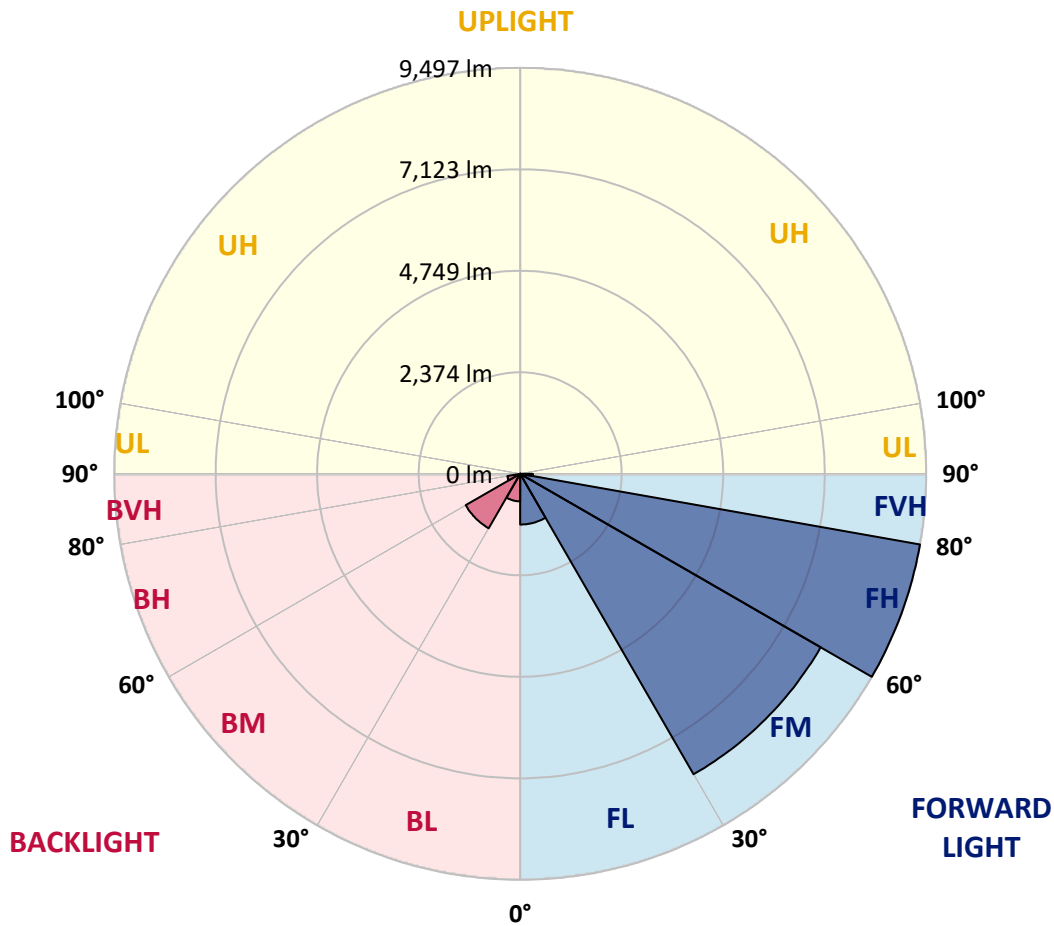
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1186.3	5.5			
FM (30°-60°)	8115.2	37.7			
FH (60°-80°)	9497.0	44.1			G4/12000
FVH (80°-90°)	299.5	1.4			G3/500
BL (0°-30°)	643.6	3.0	B2/1000		
BM (30°-60°)	1470.4	6.8	B2/2500		
BH (60°-80°)	303.9	1.4	B1/500		G1/500
BVH (80°-90°)	4.1	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



REPORT NUMBER: P944298
 CATALOG NUMBER: GALN-SB9A-935-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	3119.0	3119.0	3119.0	3119.0	3119.0	3119.0	3119.0	3119.0	3119.0	3119.0
2.5°	2980.2	3005.4	3010.2	3018.1	3018.1	3027.5	3043.3	3065.4	3101.6	3120.5
5°	2746.8	2765.8	2789.4	2808.3	2844.6	2849.3	2910.8	2970.7	3054.3	3117.4
7.5°	2511.9	2534.0	2565.5	2611.2	2658.5	2672.7	2765.8	2866.7	2999.1	3117.4
10°	2346.3	2347.9	2376.3	2422.0	2497.7	2515.0	2628.6	2772.1	2937.6	3098.5
12.5°	2253.3	2264.3	2276.9	2311.6	2384.2	2395.2	2516.6	2685.3	2876.1	3087.4
15°	2253.3	2261.2	2269.1	2286.4	2344.7	2354.2	2461.4	2630.2	2844.6	3092.2
17.5°	2276.9	2289.6	2283.2	2303.7	2365.2	2371.6	2466.2	2614.4	2843.0	3122.1
20°	2333.7	2343.2	2330.6	2343.2	2404.7	2417.3	2515.0	2644.3	2869.8	3174.2
22.5°	2423.6	2428.3	2398.4	2407.8	2470.9	2486.7	2600.2	2729.5	2934.5	3257.7
25°	2537.1	2546.6	2500.9	2511.9	2571.8	2590.7	2721.6	2857.2	3037.0	3372.8
27.5°	2668.0	2672.7	2633.3	2631.7	2709.0	2735.8	2868.3	3014.9	3174.2	3517.9
30°	2817.8	2832.0	2794.1	2787.8	2885.6	2907.7	3038.6	3208.8	3376.0	3735.5
32.5°	2936.1	2947.1	2925.0	2940.8	3040.1	3057.5	3245.1	3483.2	3692.9	4044.6
35°	3106.4	3112.7	3062.2	3090.6	3204.1	3248.3	3527.4	3868.0	4091.9	4432.5
37.5°	3722.9	3722.9	3508.4	3368.1	3476.9	3516.3	3913.7	4352.1	4583.8	4952.8
40°	4576.0	4561.8	4248.0	3961.0	3946.8	4024.1	4464.0	4962.3	5219.3	5577.2
42.5°	5485.8	5463.7	5036.4	4752.6	4705.3	4732.1	5099.5	5714.4	5976.2	6338.9
45°	6293.1	6286.8	5895.8	5514.2	5429.0	5514.2	5892.6	6594.3	6781.9	7163.5
47.5°	6969.6	6969.6	6684.2	6435.0	6390.9	6441.4	6966.4	7570.4	7553.0	8041.8
50°	7748.5	7742.2	7471.0	7363.8	7409.5	7480.5	8202.7	8598.5	8350.9	8904.4
52.5°	8294.1	8332.0	8238.9	8221.6	8455.0	8578.0	9457.8	9604.5	9065.2	9722.7
55°	8726.2	8770.3	8877.6	8999.0	9448.4	9609.2	10673.6	10558.5	9662.8	10432.3
57.5°	9338.0	9274.9	9440.5	9680.2	10407.1	10601.0	11851.5	11458.8	10143.7	11007.8
60°	10080.7	10090.1	10118.5	10421.3	11364.2	11613.4	13012.0	12310.3	10452.8	11361.1
62.5°	10973.2	10987.4	11045.7	11510.9	12649.3	12884.3	14248.2	13007.3	10594.7	11261.7
65°	10911.7	10971.6	11622.8	13213.8	14603.0	14834.8	15691.0	13496.1	10380.3	10353.5
67.5°	9940.3	10038.1	11127.7	15247.9	17548.5	17807.1	17435.0	13592.3	9454.7	8051.3
70°	8666.3	8700.9	10011.3	17077.1	20959.2	21221.0	18996.1	12534.2	7174.6	4490.8
72.5°	6767.8	6775.6	8313.0	17501.2	22810.4	22824.6	17770.9	9304.9	3858.5	1725.1
75°	4834.6	4787.3	5567.8	14193.0	20068.3	20229.2	13322.6	4364.7	1474.3	815.2
77.5°	2592.3	2644.3	3150.5	8417.1	13863.5	14137.9	7269.2	1258.3	750.6	555.0
80°	801.0	845.2	1291.4	3853.8	7852.6	8018.2	2694.8	559.8	523.5	395.8
82.5°	252.3	261.8	602.3	1619.4	3259.3	3335.0	780.5	316.9	357.9	261.8
85°	72.5	74.1	268.1	603.9	805.8	821.5	219.2	123.0	205.0	162.4
87.5°	7.9	25.2	100.9	100.9	71.0	69.4	23.7	26.8	58.3	20.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P944298
 CATALOG NUMBER: GALN-SB9A-935-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3119.0	0°	3119.0	3119.0	3119.0	3119.0	3119.0	3119.0	3119.0	3119.0	3119.0	3119.0
3133.2	2.5°	3125.3	3126.9	3106.4	3071.7	3033.8	3002.3	2962.9	2931.3	2909.3	2902.9
3161.5	5°	3147.4	3136.3	3078.0	2972.3	2846.2	2737.4	2616.0	2519.8	2456.7	2429.9
3191.5	7.5°	3180.5	3148.9	3021.2	2813.1	2571.8	2357.4	2139.8	1971.0	1863.8	1810.2
3219.9	10°	3208.8	3145.8	2926.6	2582.8	2213.9	1889.0	1595.8	1392.3	1278.8	1225.2
3253.0	12.5°	3235.7	3144.2	2803.6	2310.1	1810.2	1412.8	1140.0	1039.1	1007.6	996.6
3306.6	15°	3286.1	3148.9	2649.1	1997.8	1408.1	1067.5	968.2	966.6	972.9	969.8
3388.6	17.5°	3355.5	3153.7	2474.0	1666.7	1086.4	941.4	936.6	950.8	960.3	955.6
3491.1	20°	3445.4	3172.6	2288.0	1338.7	933.5	909.8	920.9	933.5	941.4	933.5
3628.3	22.5°	3571.5	3205.7	2084.6	1075.4	884.6	890.9	900.4	914.6	922.4	911.4
3803.3	25°	3726.0	3257.7	1884.3	935.1	860.9	868.8	883.0	898.8	908.3	897.2
4024.1	27.5°	3926.3	3341.3	1699.8	903.5	837.3	842.0	862.5	886.2	898.8	884.6
4337.9	30°	4216.4	3478.5	1540.6	917.7	823.1	812.1	840.5	873.6	887.8	875.1
4765.2	32.5°	4601.2	3672.4	1442.8	939.8	816.8	777.4	804.2	846.8	870.4	862.5
5323.4	35°	5105.8	3967.3	1405.0	965.0	812.1	741.1	760.0	805.8	846.8	854.6
6026.6	37.5°	5717.6	4377.3	1416.0	976.1	797.9	711.2	720.6	760.0	813.6	838.9
6818.2	40°	6413.0	4855.1	1479.1	965.0	782.1	685.9	687.5	717.5	764.8	802.6
7669.7	42.5°	7130.4	5413.3	1595.8	924.0	767.9	663.8	659.1	679.6	711.2	738.0
8519.6	45°	7813.2	5987.2	1710.9	867.3	750.6	641.8	630.7	638.6	644.9	656.0
9347.4	47.5°	8409.2	6390.9	1677.7	815.2	726.9	616.5	597.6	594.5	575.5	574.0
10087.0	50°	8820.8	6479.2	1490.1	763.2	692.2	588.2	558.2	539.3	506.2	490.4
10640.4	52.5°	8951.7	6130.7	1217.3	711.2	635.5	550.3	507.7	477.8	436.8	422.6
10959.0	55°	8778.2	5447.9	972.9	648.1	556.6	499.9	452.6	413.1	380.0	362.7
10993.7	57.5°	8354.0	4579.1	769.5	574.0	473.0	443.1	395.8	356.4	328.0	310.6
10608.9	60°	7650.8	3636.2	608.7	485.7	403.7	381.6	332.7	307.5	282.3	261.8
9615.5	62.5°	6583.3	2595.5	477.8	384.7	337.4	312.2	283.8	264.9	234.9	206.6
7829.0	65°	5137.3	1587.9	369.0	282.3	271.2	258.6	241.3	223.9	187.6	159.3
5107.4	67.5°	3240.4	752.1	263.3	212.9	214.4	208.1	200.3	186.1	159.3	134.0
2288.0	70°	1427.0	364.2	173.5	162.4	159.3	159.3	165.6	160.8	135.6	112.0
794.7	72.5°	485.7	195.5	129.3	123.0	115.1	113.5	138.8	134.0	108.8	86.7
395.8	75°	253.9	130.9	94.6	88.3	69.4	83.6	110.4	104.1	77.3	56.8
261.8	77.5°	165.6	93.0	64.7	56.8	39.4	55.2	82.0	72.5	45.7	28.4
171.9	80°	104.1	61.5	37.8	26.8	18.9	30.0	44.2	31.5	17.3	6.3
100.9	82.5°	55.2	31.5	14.2	9.5	7.9	9.5	11.0	7.9	3.2	0.0
52.0	85°	22.1	11.0	4.7	3.2	1.6	0.0	3.2	1.6	0.0	0.0
9.5	87.5°	7.9	1.6	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>
3119.0
2914.0
2439.4
1818.1
1226.8
993.4
968.2
954.0
931.9
909.8
895.6
884.6
873.6
862.5
854.6
845.2
815.2
749.0
662.3
572.4
492.0
421.0
362.7
307.5
257.0
201.8
154.5
130.9
107.2
82.0
52.0
25.2
4.7
0.0
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