

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: P941208

Luminaire Tested: **GALN-SB4C-850-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941208
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-SB4C-850-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 5000K, 615mA 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: 21737 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

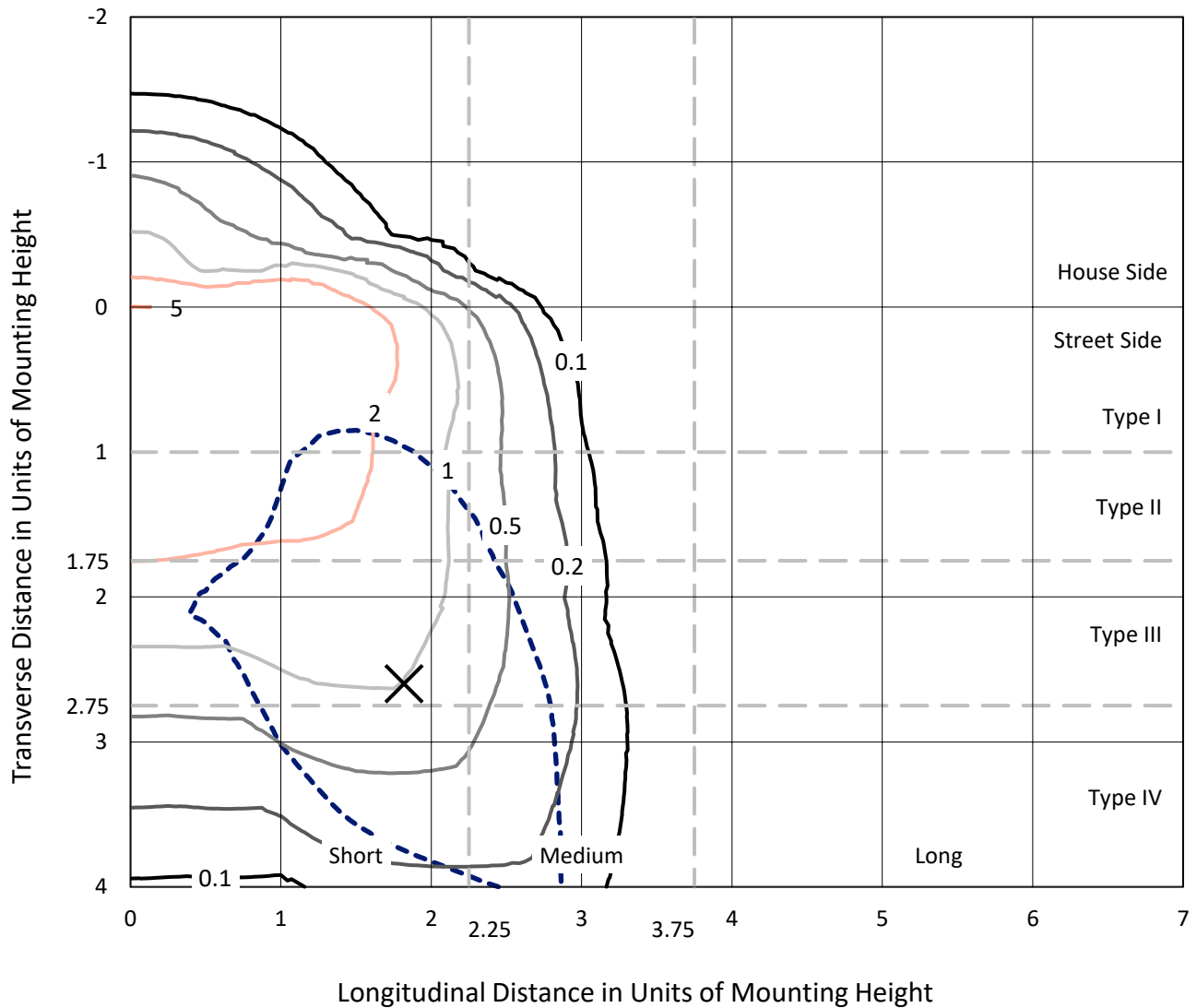
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

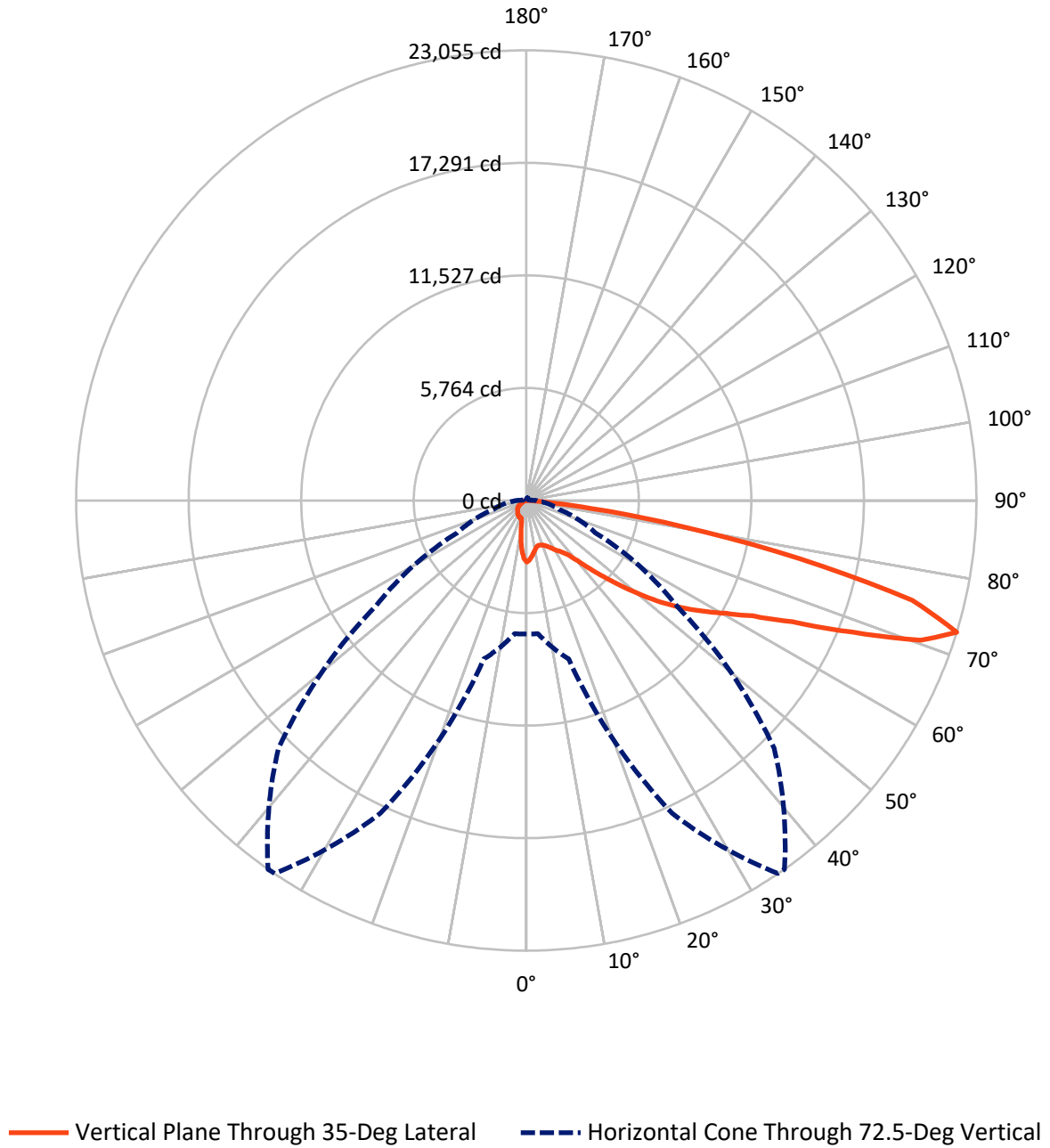
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P941208
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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2446.4	0.0	2446.4
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	19290.6	0.0	19290.6
	% Fixture	88.7	0.0	88.7
Total	Lumens	21737.0	0.0	21737.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.9	1.2
10°-20°	605.6	2.8
20°-30°	983.8	4.5
30°-40°	1641.5	7.6
40°-50°	3105.7	14.3
50°-60°	4935.0	22.7
60°-70°	6104.9	28.1
70°-80°	3794.9	17.5
80°-90°	306.7	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°	21737.0	100.0
0°-180°	21737.0	100.0



REPORT NUMBER: P941208

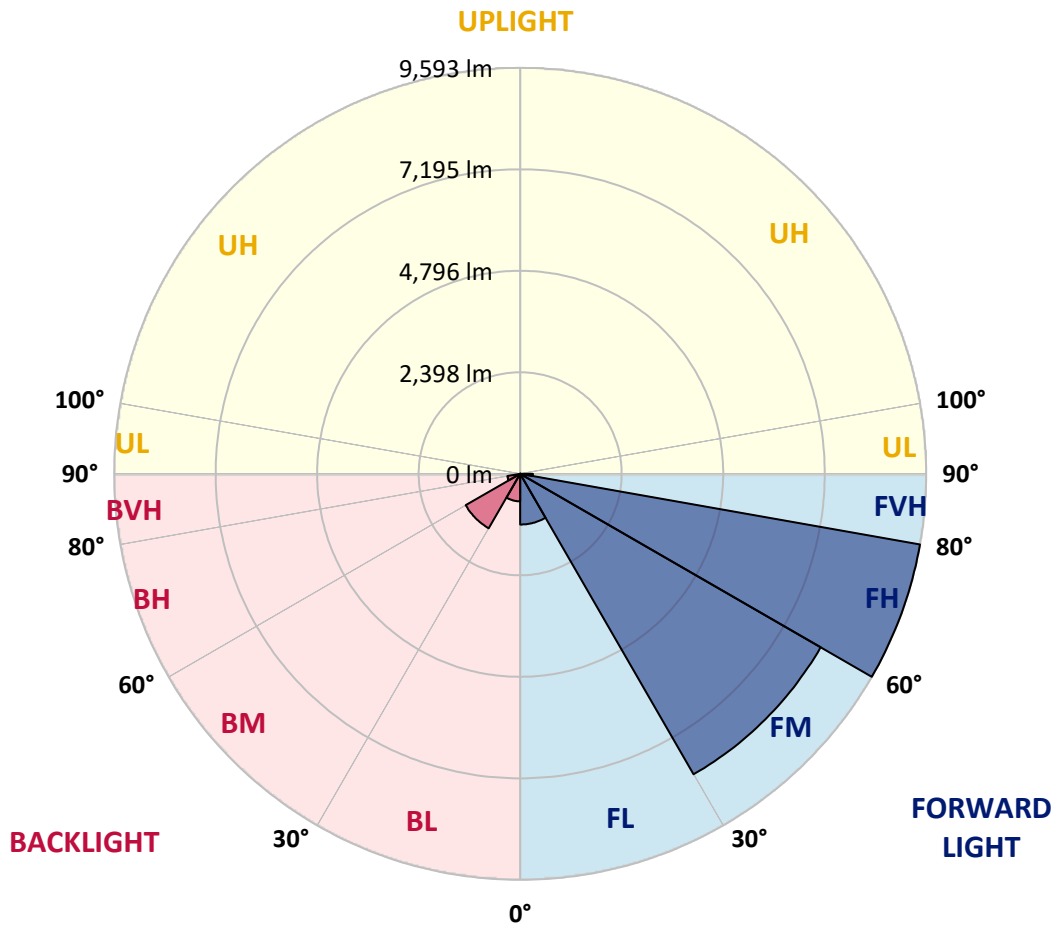
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1198.3	5.5			
FM (30°-60°)	8197.0	37.7			
FH (60°-80°)	9592.8	44.1			G4/12000
FVH (80°-90°)	302.5	1.4			G3/500
BL (0°-30°)	650.1	3.0	B2/1000		
BM (30°-60°)	1485.2	6.8	B2/2500		
BH (60°-80°)	307.0	1.4	B1/500		G1/500
BVH (80°-90°)	4.2	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: P941208
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	3150.4	3150.4	3150.4	3150.4	3150.4	3150.4	3150.4	3150.4	3150.4	3150.4
2.5°	3010.3	3035.7	3040.5	3048.5	3048.5	3058.0	3074.0	3096.3	3132.9	3152.0
5°	2774.5	2793.6	2817.5	2836.7	2873.3	2878.1	2940.2	3000.7	3085.1	3148.8
7.5°	2537.2	2559.5	2591.4	2637.6	2685.3	2699.7	2793.6	2895.6	3029.4	3148.8
10°	2370.0	2371.6	2400.2	2446.4	2522.9	2540.4	2655.1	2800.0	2967.3	3129.7
12.5°	2276.0	2287.2	2299.9	2334.9	2408.2	2419.4	2542.0	2712.4	2905.1	3118.6
15°	2276.0	2284.0	2291.9	2309.5	2368.4	2377.9	2486.3	2656.7	2873.3	3123.3
17.5°	2299.9	2312.6	2306.3	2327.0	2389.1	2395.5	2491.0	2640.7	2871.7	3153.6
20°	2357.2	2366.8	2354.1	2366.8	2428.9	2441.7	2540.4	2671.0	2898.8	3206.2
22.5°	2448.0	2452.8	2422.5	2432.1	2495.8	2511.7	2626.4	2757.0	2964.1	3290.6
25°	2562.7	2572.3	2526.1	2537.2	2597.7	2616.9	2749.1	2886.0	3067.6	3406.8
27.5°	2694.9	2699.7	2659.9	2658.3	2736.3	2763.4	2897.2	3045.3	3206.2	3553.4
30°	2846.2	2860.5	2822.3	2815.9	2914.7	2937.0	3069.2	3241.2	3410.0	3773.2
32.5°	2965.7	2976.8	2954.5	2970.4	3070.8	3088.3	3277.8	3518.3	3730.2	4085.4
35°	3137.7	3144.0	3093.1	3121.8	3236.4	3281.0	3562.9	3907.0	4133.1	4477.2
37.5°	3760.4	3760.4	3543.8	3402.1	3512.0	3551.8	3953.2	4395.9	4630.1	5002.8
40°	4622.1	4607.8	4290.8	4000.9	3986.6	4064.6	4509.0	5012.3	5271.9	5633.5
42.5°	5541.1	5518.8	5087.2	4800.5	4752.7	4779.8	5150.9	5772.1	6036.4	6402.8
45°	6356.6	6350.2	5955.2	5569.8	5483.8	5569.8	5952.0	6660.8	6850.3	7235.8
47.5°	7039.9	7039.9	6751.6	6499.9	6455.3	6506.3	7036.7	7646.7	7629.2	8122.9
50°	7826.7	7820.3	7546.4	7438.0	7484.2	7555.9	8285.4	8685.2	8435.1	8994.1
52.5°	8377.8	8416.0	8322.0	8304.5	8540.2	8664.5	9553.2	9701.3	9156.6	9820.8
55°	8814.2	8858.8	8967.1	9089.7	9543.6	9706.1	10781.2	10664.9	9760.2	10537.5
57.5°	9432.1	9368.4	9535.7	9777.8	10512.0	10707.9	11971.0	11574.4	10246.0	11118.8
60°	10182.3	10191.9	10220.5	10526.4	11478.8	11730.5	13143.2	12434.4	10558.2	11475.6
62.5°	11083.8	11098.1	11157.1	11626.9	12776.9	13014.2	14391.9	13138.4	10701.6	11375.3
65°	11021.7	11082.2	11740.0	13347.1	14750.3	14984.4	15849.3	13632.2	10484.9	10457.9
67.5°	10040.6	10139.3	11239.9	15401.7	17725.5	17986.7	17610.8	13729.3	9550.0	8132.5
70°	8753.6	8788.7	10112.2	17249.3	21170.6	21435.0	19187.6	12660.6	7246.9	4536.1
72.5°	6836.0	6844.0	8396.9	17677.7	23040.4	23054.8	17950.1	9398.7	3897.4	1742.4
75°	4883.3	4835.5	5623.9	14336.2	20270.7	20433.1	13457.0	4408.7	1489.2	823.4
77.5°	2618.4	2671.0	3182.3	8502.0	14003.3	14280.4	7342.5	1271.0	758.1	560.6
80°	809.1	853.7	1304.4	3892.6	7931.8	8099.0	2722.0	565.4	528.8	399.8
82.5°	254.8	264.4	608.4	1635.7	3292.2	3368.6	788.4	320.1	361.5	264.4
85°	73.3	74.9	270.8	610.0	813.9	829.8	221.4	124.2	207.1	164.1
87.5°	8.0	25.5	101.9	101.9	71.7	70.1	23.9	27.1	58.9	20.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P941208
 CATALOG NUMBER: GALN-SB4C-850-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3150.4	0°	3150.4	3150.4	3150.4	3150.4	3150.4	3150.4	3150.4	3150.4	3150.4	3150.4
3164.8	2.5°	3156.8	3158.4	3137.7	3102.6	3064.4	3032.6	2992.7	2960.9	2938.6	2932.2
3193.4	5°	3179.1	3167.9	3109.0	3002.3	2874.9	2765.0	2642.3	2545.2	2481.5	2454.4
3223.7	7.5°	3212.5	3180.7	3051.7	2841.4	2597.7	2381.1	2161.3	1990.9	1882.6	1828.5
3252.4	10°	3241.2	3177.5	2956.1	2608.9	2236.2	1908.1	1611.8	1406.4	1291.7	1237.6
3285.8	12.5°	3268.3	3175.9	2831.9	2333.3	1828.5	1427.1	1151.5	1049.6	1017.8	1006.6
3340.0	15°	3319.2	3180.7	2675.8	2018.0	1422.3	1078.3	977.9	976.3	982.7	979.5
3422.8	17.5°	3389.3	3185.5	2499.0	1683.5	1097.4	950.9	946.1	960.4	970.0	965.2
3526.3	20°	3480.1	3204.6	2311.1	1352.2	942.9	919.0	930.2	942.9	950.9	942.9
3664.9	22.5°	3607.5	3238.0	2105.6	1086.2	893.5	899.9	909.4	923.8	931.7	920.6
3841.7	25°	3763.6	3290.6	1903.3	944.5	869.6	877.6	891.9	907.9	917.4	906.3
4064.6	27.5°	3965.9	3375.0	1717.0	912.6	845.7	850.5	871.2	895.1	907.9	893.5
4381.6	30°	4259.0	3513.6	1556.1	927.0	831.4	820.3	848.9	882.4	896.7	884.0
4813.2	32.5°	4647.6	3709.5	1457.3	949.3	825.0	785.2	812.3	855.3	879.2	871.2
5377.1	35°	5157.3	4007.3	1419.1	974.8	820.3	748.6	767.7	813.9	855.3	863.3
6087.4	37.5°	5775.2	4421.4	1430.3	985.9	805.9	718.3	727.9	767.7	821.8	847.3
6887.0	40°	6477.6	4904.0	1494.0	974.8	790.0	692.8	694.4	724.7	772.5	810.7
7747.0	42.5°	7202.3	5467.8	1611.8	933.3	775.7	670.5	665.8	686.5	718.3	745.4
8605.5	45°	7892.0	6047.6	1728.1	876.0	758.1	648.2	637.1	645.1	651.4	662.6
9441.7	47.5°	8494.0	6455.3	1694.7	823.4	734.2	622.8	603.6	600.5	581.3	579.8
10188.7	50°	8909.7	6544.5	1505.1	770.9	699.2	594.1	563.8	544.7	511.3	495.3
10747.7	52.5°	9041.9	6192.5	1229.6	718.3	641.9	555.9	512.9	482.6	441.2	426.9
11069.5	55°	8866.7	5502.9	982.7	654.6	562.2	504.9	457.1	417.3	383.8	366.3
11104.5	57.5°	8438.3	4625.3	777.3	579.8	477.8	447.6	399.8	360.0	331.3	313.8
10715.9	60°	7727.9	3672.8	614.8	490.6	407.7	385.4	336.1	310.6	285.1	264.4
9712.5	62.5°	6649.6	2621.6	482.6	388.6	340.8	315.4	286.7	267.6	237.3	208.6
7907.9	65°	5189.1	1603.9	372.7	285.1	273.9	261.2	243.7	226.2	189.5	160.9
5158.9	67.5°	3273.1	759.7	266.0	215.0	216.6	210.2	202.3	187.9	160.9	135.4
2311.1	70°	1441.4	367.9	175.2	164.1	160.9	160.9	167.2	162.5	137.0	113.1
802.7	72.5°	490.6	197.5	130.6	124.2	116.3	114.7	140.2	135.4	109.9	87.6
399.8	75°	256.4	132.2	95.6	89.2	70.1	84.4	111.5	105.1	78.0	57.3
264.4	77.5°	167.2	94.0	65.3	57.3	39.8	55.7	82.8	73.3	46.2	28.7
173.6	80°	105.1	62.1	38.2	27.1	19.1	30.3	44.6	31.9	17.5	6.4
101.9	82.5°	55.7	31.9	14.3	9.6	8.0	9.6	11.1	8.0	3.2	0.0
52.6	85°	22.3	11.1	4.8	3.2	1.6	0.0	3.2	1.6	0.0	0.0
9.6	87.5°	8.0	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>
3150.4
2943.4
2464.0
1836.4
1239.1
1003.4
977.9
963.6
941.3
919.0
904.7
893.5
882.4
871.2
863.3
853.7
823.4
756.5
668.9
578.2
496.9
425.3
366.3
310.6
259.6
203.9
156.1
132.2
108.3
82.8
52.6
25.5
4.8
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