

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: P942838

Luminaire Tested: **GALN-SB7A-740-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942838
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-SB7A-740-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 4000K, 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: 25554 lumens
Efficiency: N/A
Efficacy: 128.3 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

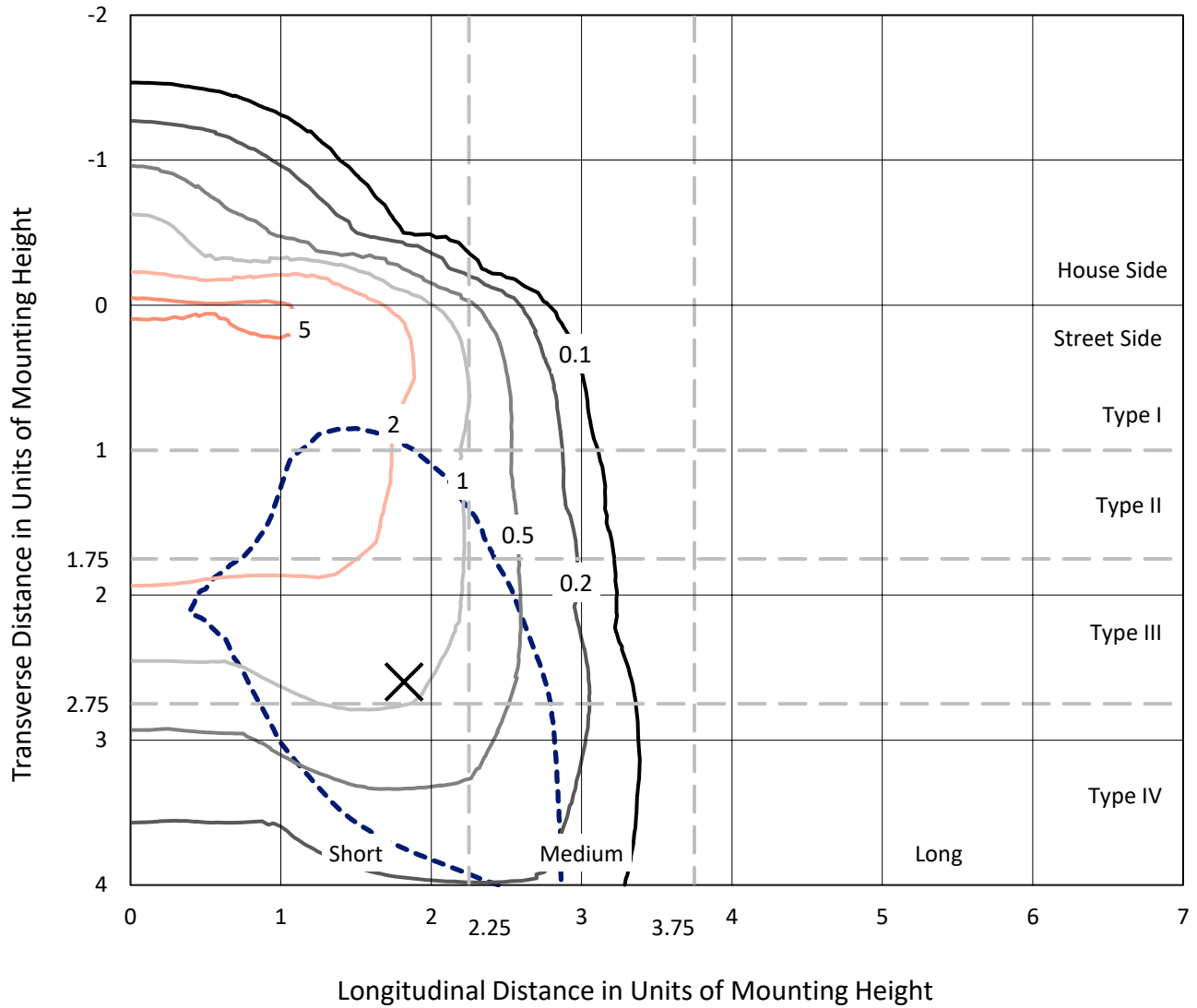
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

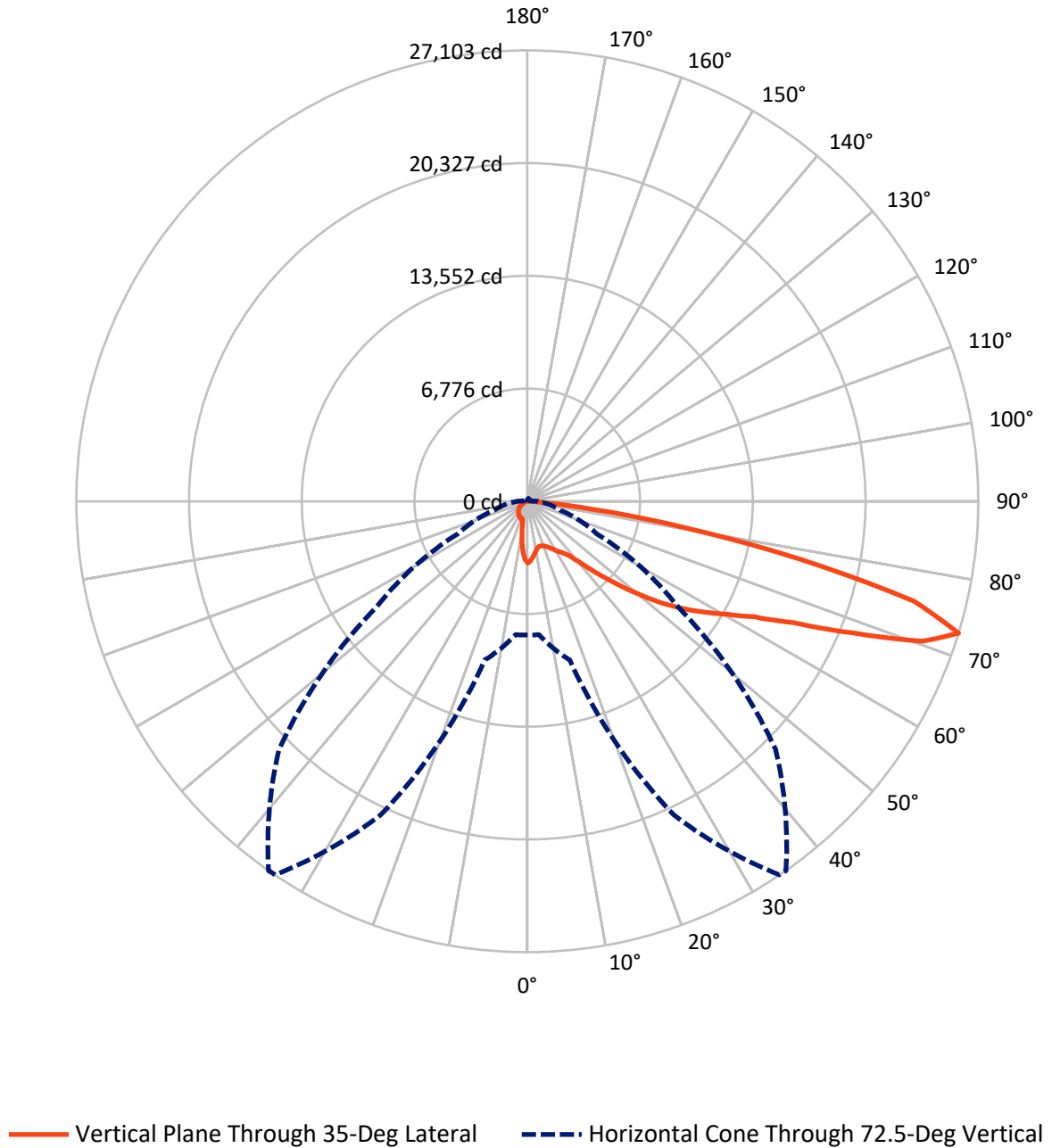
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2876.0	0.0	2876.0
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	22678.0	0.0	22678.0
	% Fixture	88.7	0.0	88.7
Total	Lumens	25554.0	0.0	25554.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.3	1.2
10°-20°	712.0	2.8
20°-30°	1156.6	4.5
30°-40°	1929.7	7.6
40°-50°	3651.1	14.3
50°-60°	5801.6	22.7
60°-70°	7176.9	28.1
70°-80°	4461.2	17.5
80°-90°	360.5	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°	25554.0	100.0
0°-180°	25554.0	100.0



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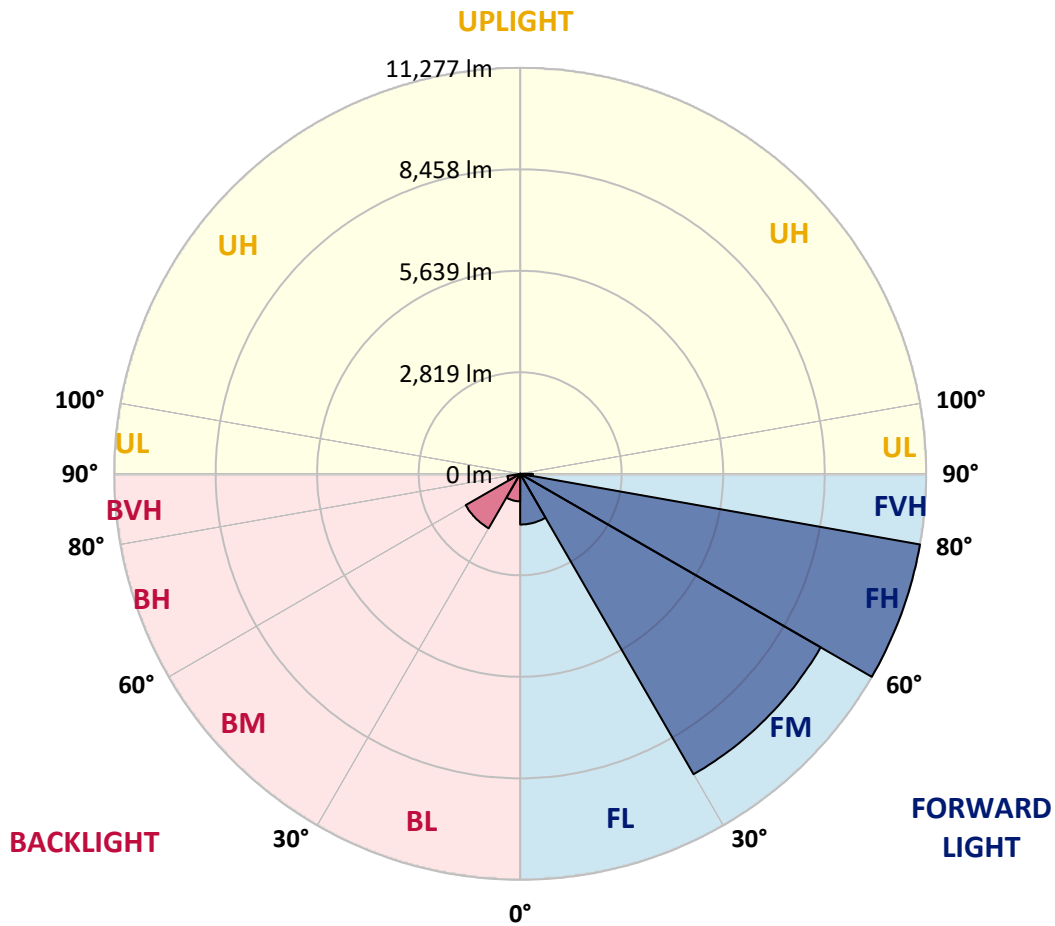
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1408.7	5.5			
FM (30°-60°)	9636.4	37.7			
FH (60°-80°)	11277.3	44.1			G4/12000
FVH (80°-90°)	355.6	1.4			G3/500
BL (0°-30°)	764.2	3.0	B2/1000		
BM (30°-60°)	1746.0	6.8	B2/2500		
BH (60°-80°)	360.9	1.4	B1/500		G1/500
BVH (80°-90°)	4.9	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°	3703.6	3703.6	3703.6	3703.6	3703.6	3703.6	3703.6	3703.6	3703.6	3703.6
2.5°	3538.9	3568.8	3574.4	3583.8	3583.8	3595.0	3613.8	3640.0	3683.0	3705.5
5°	3261.7	3284.2	3312.3	3334.8	3377.8	3383.4	3456.5	3527.6	3626.9	3701.8
7.5°	2982.8	3009.0	3046.4	3100.7	3156.9	3173.7	3284.2	3404.0	3561.3	3701.8
10°	2786.1	2788.0	2821.7	2876.0	2965.9	2986.5	3121.3	3291.7	3488.3	3679.3
12.5°	2675.7	2688.8	2703.8	2745.0	2831.1	2844.2	2988.4	3188.7	3415.3	3666.2
15°	2675.7	2685.0	2694.4	2715.0	2784.3	2795.5	2922.8	3123.2	3377.8	3671.8
17.5°	2703.8	2718.7	2711.3	2735.6	2808.6	2816.1	2928.5	3104.5	3376.0	3707.4
20°	2771.2	2782.4	2767.4	2782.4	2855.4	2870.4	2986.5	3140.0	3407.8	3769.2
22.5°	2877.9	2883.5	2847.9	2859.2	2934.1	2952.8	3087.6	3241.1	3484.6	3868.4
25°	3012.7	3023.9	2969.6	2982.8	3053.9	3076.4	3231.8	3392.8	3606.3	4005.1
27.5°	3168.1	3173.7	3126.9	3125.1	3216.8	3248.6	3405.9	3580.1	3769.2	4177.4
30°	3346.0	3362.9	3317.9	3310.4	3426.5	3452.7	3608.1	3810.4	4008.8	4435.7
32.5°	3486.4	3499.5	3473.3	3492.0	3610.0	3630.6	3853.4	4136.2	4385.2	4802.7
35°	3688.7	3696.1	3636.2	3669.9	3804.7	3857.2	4188.6	4593.0	4858.9	5263.4
37.5°	4420.8	4420.8	4166.1	3999.5	4128.7	4175.5	4647.3	5167.9	5443.1	5881.2
40°	5433.7	5416.9	5044.3	4703.5	4686.6	4778.4	5300.8	5892.5	6197.7	6622.7
42.5°	6514.1	6487.9	5980.5	5643.5	5587.3	5619.1	6055.4	6785.6	7096.4	7527.1
45°	7472.8	7465.3	7000.9	6547.8	6446.7	6547.8	6997.2	7830.4	8053.2	8506.4
47.5°	8276.1	8276.1	7937.2	7641.3	7588.9	7648.8	8272.3	8989.5	8968.9	9549.3
50°	9201.0	9193.5	8871.5	8744.2	8798.5	8882.7	9740.3	10210.3	9916.3	10573.5
52.5°	9848.9	9893.8	9783.4	9762.8	10039.9	10185.9	11230.7	11404.9	10764.5	11545.3
55°	10361.9	10414.4	10541.7	10685.9	11219.5	11410.5	12674.4	12537.7	11474.1	12387.9
57.5°	11088.4	11013.5	11210.1	11494.7	12357.9	12588.2	14073.1	13606.8	12045.2	13071.3
60°	11970.3	11981.6	12015.3	12374.8	13494.5	13790.3	15451.1	14617.9	12412.2	13490.7
62.5°	13030.1	13047.0	13116.2	13668.6	15020.5	15299.5	16919.1	15445.5	12580.7	13372.8
65°	12957.1	13028.2	13801.6	15690.8	17340.4	17615.7	18632.4	16026.0	12326.1	12294.3
67.5°	11803.7	11919.8	13213.6	18106.2	20838.1	21145.2	20703.3	16140.2	11227.0	9560.5
70°	10290.8	10332.0	11887.9	20278.2	24888.1	25198.9	22557.0	14883.8	8519.5	5332.6
72.5°	8036.4	8045.8	9871.4	20781.9	27086.3	27103.2	21102.1	11049.1	4581.8	2048.4
75°	5740.8	5684.6	6611.5	16853.6	23830.2	24021.2	15820.0	5182.8	1750.7	968.0
77.5°	3078.2	3140.0	3741.1	9994.9	16462.2	16788.0	8631.8	1494.2	891.3	659.1
80°	951.2	1003.6	1533.5	4576.2	9324.6	9521.2	3200.0	664.7	621.6	470.0
82.5°	299.6	310.8	715.3	1923.0	3870.3	3960.2	926.8	376.4	425.0	310.8
85°	86.1	88.0	318.3	717.1	956.8	975.5	260.3	146.0	243.4	192.9
87.5°	9.4	30.0	119.8	119.8	84.3	82.4	28.1	31.8	69.3	24.3
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°
3703.6	0°	3703.6	3703.6	3703.6	3703.6	3703.6	3703.6	3703.6	3703.6	3703.6	3703.6
3720.5	2.5°	3711.1	3713.0	3688.7	3647.5	3602.5	3565.1	3518.3	3480.8	3454.6	3447.1
3754.2	5°	3737.3	3724.2	3654.9	3529.5	3379.7	3250.5	3106.3	2992.1	2917.2	2885.4
3789.8	7.5°	3776.7	3739.2	3587.5	3340.4	3053.9	2799.3	2540.9	2340.5	2213.2	2149.5
3823.5	10°	3810.4	3735.5	3475.2	3067.0	2628.9	2243.1	1894.9	1653.3	1518.5	1454.9
3862.8	12.5°	3842.2	3733.6	3329.1	2743.1	2149.5	1677.7	1353.8	1233.9	1196.5	1183.4
3926.4	15°	3902.1	3739.2	3145.7	2372.3	1672.1	1267.6	1149.7	1147.8	1155.3	1151.5
4023.8	17.5°	3984.5	3744.8	2937.8	1979.1	1290.1	1117.8	1112.2	1129.1	1140.3	1134.7
4145.5	20°	4091.2	3767.3	2716.9	1589.7	1108.5	1080.4	1093.5	1108.5	1117.8	1108.5
4308.4	22.5°	4241.0	3806.6	2475.3	1277.0	1050.4	1057.9	1069.1	1086.0	1095.4	1082.3
4516.3	25°	4424.5	3868.4	2237.5	1110.3	1022.3	1031.7	1048.6	1067.3	1078.5	1065.4
4778.4	27.5°	4662.3	3967.6	2018.5	1072.9	994.3	999.9	1024.2	1052.3	1067.3	1050.4
5151.0	30°	5006.8	4130.5	1829.3	1089.7	977.4	964.3	998.0	1037.3	1054.2	1039.2
5658.4	32.5°	5463.7	4360.8	1713.3	1116.0	969.9	923.1	954.9	1005.5	1033.6	1024.2
6321.3	35°	6062.9	4711.0	1668.3	1145.9	964.3	880.0	902.5	956.8	1005.5	1014.8
7156.4	37.5°	6789.4	5197.8	1681.4	1159.0	947.4	844.5	855.7	902.5	966.2	996.1
8096.3	40°	7615.1	5765.2	1756.3	1145.9	928.7	814.5	816.4	851.9	908.1	953.1
9107.4	42.5°	8467.0	6428.0	1894.9	1097.2	911.9	788.3	782.7	807.0	844.5	876.3
10116.6	45°	9277.8	7109.5	2031.6	1029.8	891.3	762.1	749.0	758.3	765.8	778.9
11099.7	47.5°	9985.6	7588.9	1992.2	968.0	863.2	732.1	709.6	705.9	683.4	681.6
11977.8	50°	10474.3	7693.7	1769.4	906.2	822.0	698.4	662.8	640.4	601.0	582.3
12635.0	52.5°	10629.7	7279.9	1445.5	844.5	754.6	653.5	602.9	567.3	518.7	501.8
13013.3	55°	10423.7	6469.2	1155.3	769.6	661.0	593.6	537.4	490.6	451.3	430.7
13054.5	57.5°	9920.0	5437.5	913.7	681.6	561.7	526.1	470.0	423.2	389.5	368.9
12597.6	60°	9084.9	4317.8	722.8	576.7	479.3	453.1	395.1	365.1	335.2	310.8
11418.0	62.5°	7817.3	3082.0	567.3	456.9	400.7	370.7	337.0	314.6	279.0	245.3
9296.5	65°	6100.3	1885.5	438.1	335.2	322.1	307.1	286.5	265.9	222.8	189.1
6064.7	67.5°	3847.8	893.1	312.7	252.8	254.6	247.2	237.8	220.9	189.1	159.2
2716.9	70°	1694.5	432.5	206.0	192.9	189.1	189.1	196.6	191.0	161.0	132.9
943.7	72.5°	576.7	232.2	153.5	146.0	136.7	134.8	164.8	159.2	129.2	103.0
470.0	75°	301.5	155.4	112.3	104.9	82.4	99.2	131.1	123.6	91.7	67.4
310.8	77.5°	196.6	110.5	76.8	67.4	46.8	65.5	97.4	86.1	54.3	33.7
204.1	80°	123.6	73.0	44.9	31.8	22.5	35.6	52.4	37.4	20.6	7.5
119.8	82.5°	65.5	37.4	16.9	11.2	9.4	11.2	13.1	9.4	3.7	0.0
61.8	85°	26.2	13.1	5.6	3.7	1.9	0.0	3.7	1.9	0.0	0.0
11.2	87.5°	9.4	1.9	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°
3703.6
3460.2
2896.6
2158.9
1456.7
1179.6
1149.7
1132.8
1106.6
1080.4
1063.5
1050.4
1037.3
1024.2
1014.8
1003.6
968.0
889.4
786.4
679.7
584.2
499.9
430.7
365.1
305.2
239.7
183.5
155.4
127.3
97.4
61.8
30.0
5.6
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