

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: STREETWORKS

Report Number: P477690

Luminaire Tested: **IFLD-S-SA3C-730-U-T3R**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477690  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-730-U-T3R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R  
distribution lens  
Light Source: (48) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

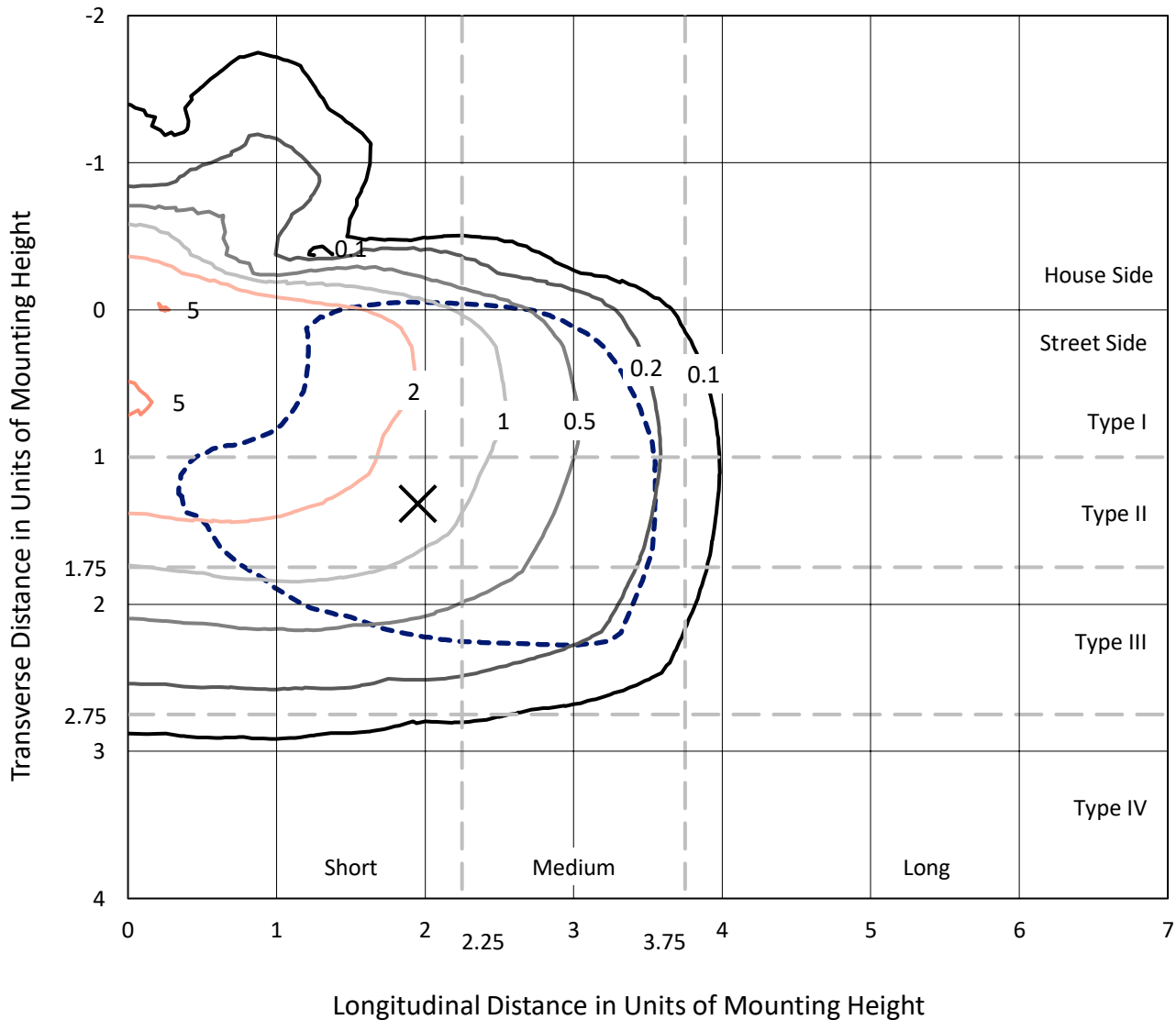
Lumens per Lamp: N/A  
Luminaire Lumens: 18946.8 lumens  
Efficiency: N/A  
Efficacy: 117.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 160.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

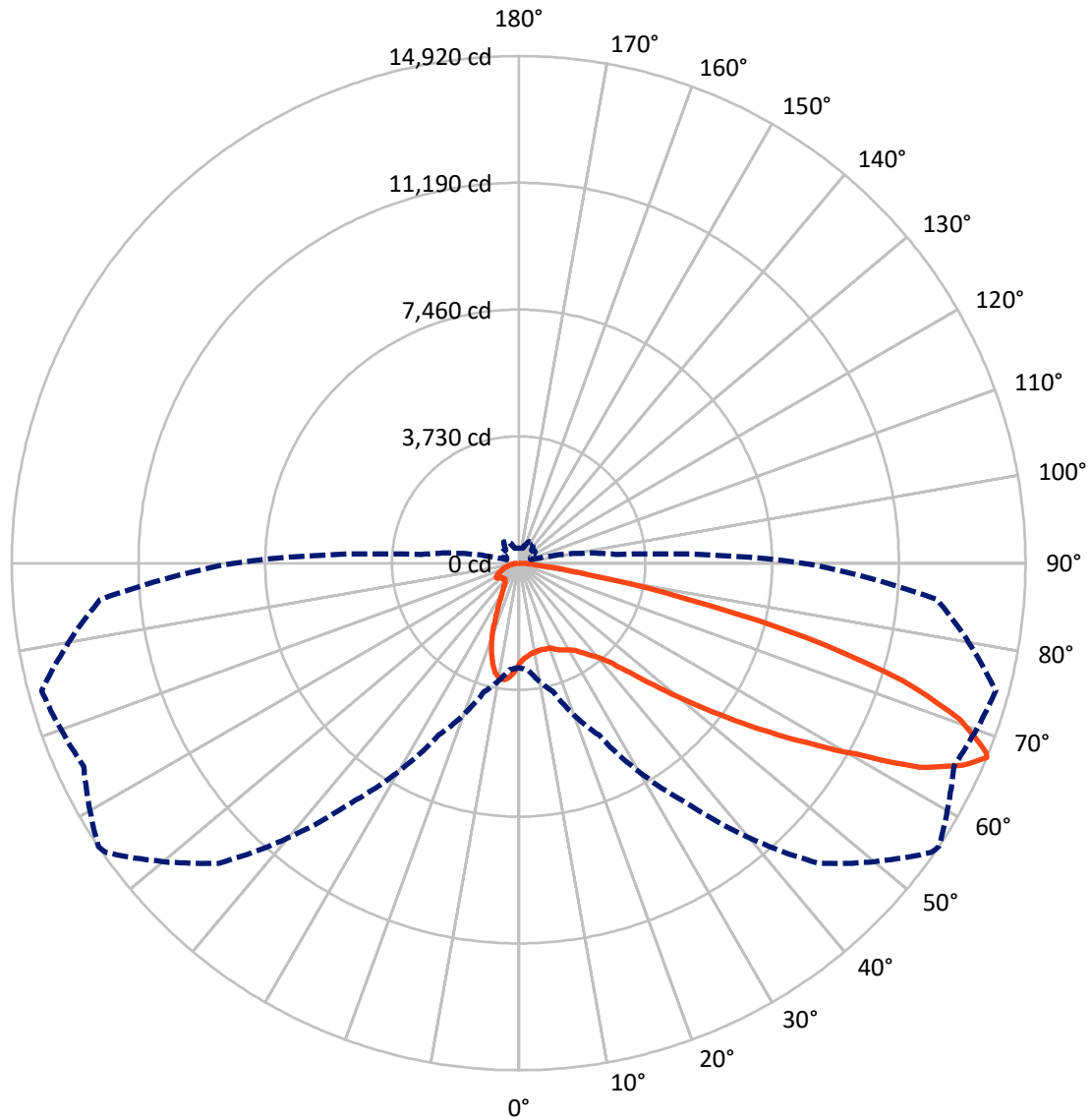
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2999.5	0.0	2999.5
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	15947.4	0.0	15947.4
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	18946.8	0.0	18946.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	284.0	1.5
10°-20°	774.8	4.1
20°-30°	1215.1	6.4
30°-40°	1734.6	9.2
40°-50°	2618.0	13.8
50°-60°	4167.5	22.0
60°-70°	5327.8	28.1
70°-80°	2597.7	13.7
80°-90°	227.2	1.2
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°	18946.8	100.0
0°-180°	18946.8	100.0

**Coefficient of Utilization**

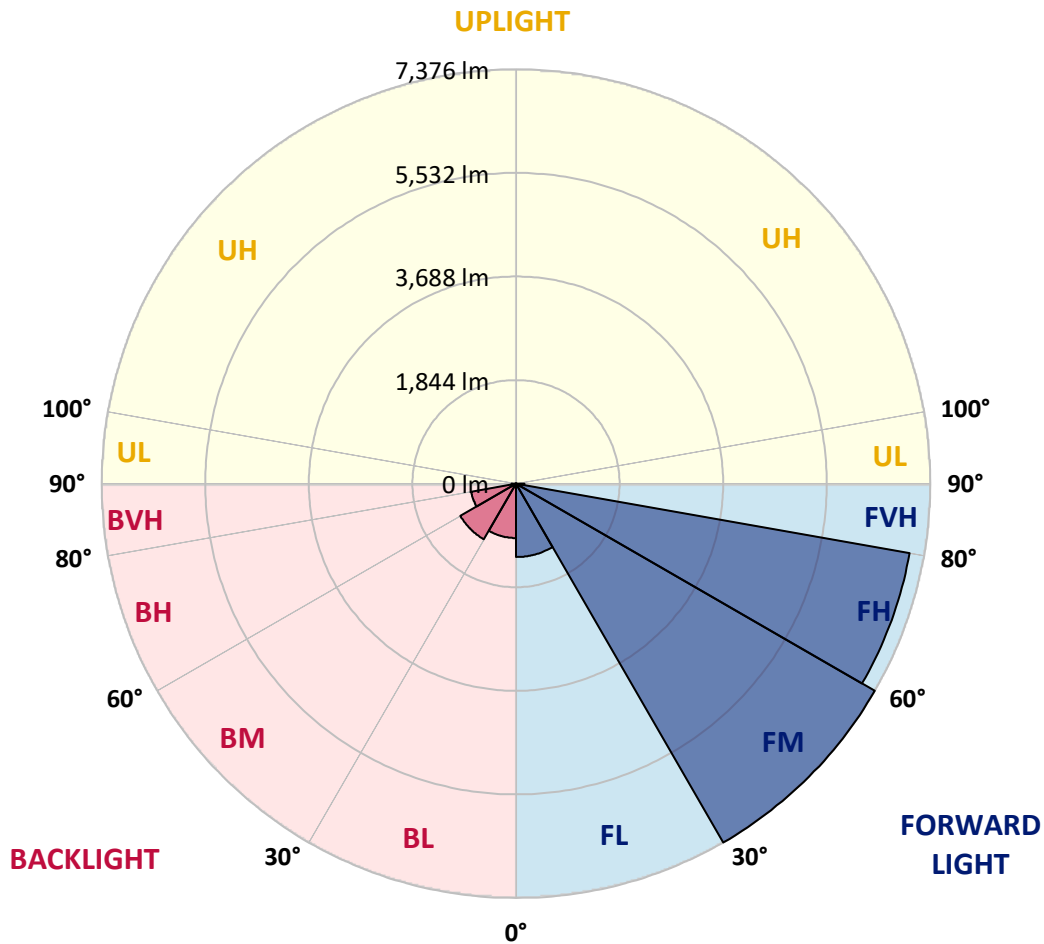


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1305.7	6.9			
FM (30°-60°)	7375.8	38.9			
FH (60°-80°)	7115.0	37.6			G3/7500
FVH (80°-90°)	150.9	0.8			G2/225
BL (0°-30°)	968.3	5.1	B2/1000		
BM (30°-60°)	1144.3	6.0	B2/2500		
BH (60°-80°)	810.5	4.3	B2/1000		G2/1000
BVH (80°-90°)	76.3	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	2948.1	2948.1	2948.1	2948.1	2948.1	2948.1	2948.1	2948.1	2948.1	2948.1
2.5°	2708.1	2697.0	2710.4	2697.0	2757.0	2792.6	2803.7	2819.2	2874.8	2928.1
5°	2594.8	2546.0	2599.3	2617.1	2621.5	2681.5	2743.7	2754.8	2783.7	2870.3
7.5°	2406.0	2461.5	2441.6	2494.9	2550.4	2610.4	2712.6	2683.7	2790.3	2872.5
10°	2366.0	2370.5	2392.7	2412.7	2461.5	2539.3	2681.5	2663.7	2772.6	2948.1
12.5°	2406.0	2406.0	2399.3	2383.8	2439.3	2514.9	2628.2	2637.1	2808.1	2970.3
15°	2546.0	2572.6	2501.5	2512.6	2490.4	2514.9	2614.8	2634.8	2821.4	2988.1
17.5°	2888.1	2879.2	2794.8	2677.0	2579.3	2563.7	2632.6	2654.8	2808.1	3039.2
20°	3221.3	3203.6	3056.9	2934.7	2741.5	2650.4	2661.5	2663.7	2830.3	3072.5
22.5°	3592.3	3639.0	3479.0	3230.2	2990.3	2763.7	2719.3	2754.8	2881.4	3090.3
25°	4174.4	4074.4	3936.7	3610.1	3223.6	2939.2	2814.8	2832.6	2930.3	3134.7
27.5°	4594.3	4554.3	4338.8	4074.4	3550.1	3076.9	2865.9	2899.2	3019.2	3132.5
30°	4998.6	4998.6	4867.6	4472.1	3894.5	3308.0	2974.7	2959.2	2977.0	3128.0
32.5°	5471.8	5407.4	5218.6	4956.4	4327.7	3519.0	3061.4	3065.8	3065.8	3210.2
35°	5720.7	5825.1	5698.4	5271.9	4658.7	3870.0	3270.2	3236.9	3212.5	3301.3
37.5°	6085.0	6147.2	6013.9	5762.9	5069.7	4154.4	3454.6	3427.9	3285.8	3372.4
40°	6304.9	6293.8	6289.4	6173.9	5614.0	4489.9	3725.6	3656.8	3465.7	3623.4
42.5°	6429.3	6407.1	6680.4	6609.3	6127.2	4983.1	4065.5	4027.8	3816.7	4070.0
45°	6569.3	6733.7	6958.1	7158.0	6724.8	5676.2	4640.9	4587.6	4398.8	4720.9
47.5°	6691.5	6893.7	7180.2	7393.5	7264.7	6429.3	5351.9	5365.2	5240.8	5571.8
50°	6895.9	6915.9	7304.7	7735.7	7835.6	7124.7	6307.2	6284.9	6229.4	6693.7
52.5°	6833.7	6893.7	7384.6	7935.6	8100.0	7860.1	7333.5	7400.2	7326.9	7911.2
55°	5820.6	6000.6	7335.8	8146.7	8726.5	8690.9	8653.2	8608.7	8604.3	9279.7
57.5°	5360.7	5507.4	6462.7	8379.9	9397.4	9659.6	9903.9	9952.8	9950.6	10765.9
60°	5058.6	5209.7	6109.4	8253.3	9968.4	10928.1	11396.9	11403.5	11390.2	12354.4
62.5°	4467.7	4614.3	5498.5	7560.1	10126.1	12098.9	13143.1	13229.7	12618.8	13722.9
65°	3756.7	3876.7	4656.5	6500.4	9706.2	12843.1	14456.0	14353.8	13654.0	14504.9
67°	3072.5	3152.5	3912.3	5580.7	8608.7	12485.5	14835.9	14920.3	14131.7	14538.2
67.5°	2877.0	2950.3	3667.9	5267.4	8191.1	12214.4	14849.3	14835.9	14140.6	14544.9
70°	1997.2	2028.3	2499.3	3623.4	6033.9	10319.4	13765.1	13796.2	13547.4	13756.2
72.5°	1324.1	1370.7	1670.7	2283.8	3556.8	7509.0	11505.7	11839.0	11681.2	11279.1
75°	853.1	879.8	1093.0	1359.6	1750.6	4276.6	8499.9	8722.0	8359.9	6975.9
77.5°	477.6	506.5	659.8	826.4	853.1	1779.5	4774.2	5049.7	4278.8	2963.6
80°	297.7	335.5	497.6	491.0	406.6	653.2	1968.3	2108.3	1710.6	1019.7
82.5°	224.4	253.3	384.3	344.3	228.8	291.0	737.6	790.9	626.5	393.2
85°	153.3	193.3	277.7	213.3	120.0	140.0	293.3	315.5	286.6	191.1
87.5°	55.5	82.2	144.4	106.6	53.3	42.2	95.5	106.6	102.2	86.6
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°
2948.1	0°	2948.1	2948.1	2948.1	2948.1	2948.1	2948.1	2948.1	2948.1	2948.1	2948.1
2974.7	2.5°	3016.9	3048.1	3063.6	3154.7	3192.5	3185.8	3194.7	3208.0	3221.3	3239.1
3012.5	5°	3041.4	3136.9	3188.0	3294.7	3365.7	3334.6	3374.6	3363.5	3348.0	3345.7
3081.4	7.5°	3121.4	3243.6	3396.8	3425.7	3456.8	3379.1	3312.4	3221.3	3199.1	3121.4
3139.1	10°	3263.5	3363.5	3550.1	3561.2	3423.5	3223.6	3074.7	2885.9	2883.7	2770.4
3228.0	12.5°	3399.1	3512.4	3663.4	3599.0	3270.2	2997.0	2754.8	2548.2	2461.5	2403.8
3281.3	15°	3483.5	3670.1	3750.1	3472.4	3001.4	2632.6	2319.4	2097.2	2008.3	1966.1
3348.0	17.5°	3561.2	3821.2	3785.6	3250.2	2670.4	2257.2	1883.9	1690.6	1666.2	1635.1
3454.6	20°	3667.9	3876.7	3659.0	2961.4	2294.9	1772.8	1535.1	1441.8	1464.0	1477.4
3465.7	22.5°	3767.9	3905.6	3499.0	2645.9	1812.8	1404.1	1286.3	1306.3	1339.6	1384.1
3492.4	25°	3812.3	3952.2	3283.5	2210.5	1379.6	1181.9	1155.2	1188.6	1244.1	1246.3
3530.1	27.5°	3841.2	3918.9	3023.6	1786.2	1090.8	1033.0	1073.0	1097.5	1104.1	1130.8
3610.1	30°	3892.3	3850.1	2694.8	1277.4	915.3	917.5	968.6	968.6	968.6	988.6
3690.1	32.5°	3981.1	3803.4	2310.5	933.1	788.7	859.8	846.4	842.0	833.1	808.7
3792.3	35°	4036.7	3676.8	1823.9	690.9	708.7	788.7	784.2	715.4	599.8	542.1
4052.2	37.5°	4152.2	3612.3	1341.9	533.2	662.0	753.1	728.7	562.1	435.4	379.9
4374.4	40°	4401.0	3570.1	928.6	466.5	630.9	735.4	650.9	479.9	333.2	235.5
4872.0	42.5°	4705.4	3572.4	630.9	439.9	633.2	773.1	626.5	411.0	235.5	188.8
5536.3	45°	5114.2	3539.0	433.2	439.9	673.1	835.3	642.0	373.2	228.8	239.9
6369.4	47.5°	5554.0	3567.9	322.1	399.9	679.8	837.5	586.5	366.6	219.9	277.7
7275.8	50°	6067.2	3596.8	266.6	368.8	682.0	810.9	539.9	357.7	228.8	293.3
8315.5	52.5°	6596.0	3687.9	226.6	348.8	708.7	799.8	539.9	371.0	228.8	255.5
9639.6	55°	7384.6	3921.1	326.6	435.4	806.4	873.1	664.3	519.9	319.9	328.8
10908.1	57.5°	8255.5	4161.1	364.3	457.7	828.7	786.5	715.4	573.2	337.7	339.9
11894.5	60°	8828.7	4170.0	362.1	446.5	775.3	679.8	699.8	604.3	344.3	291.0
12505.5	62.5°	9057.5	3898.9	377.7	446.5	722.0	635.4	717.6	650.9	355.5	364.3
12678.7	65°	8797.6	3339.1	364.3	399.9	635.4	568.7	722.0	659.8	388.8	366.6
12367.7	67°	8391.0	2877.0	371.0	379.9	590.9	539.9	759.8	693.1	451.0	439.9
12205.5	67.5°	8275.5	2754.8	368.8	368.8	575.4	531.0	768.7	693.1	459.9	455.4
10772.6	70°	7293.6	2232.7	377.7	364.3	508.7	504.3	817.6	730.9	528.7	533.2
7913.4	72.5°	5551.8	1692.9	375.5	364.3	442.1	482.1	824.2	755.3	575.4	533.2
4432.1	75°	3154.7	1013.1	331.0	317.7	348.8	419.9	770.9	719.8	559.8	477.6
1770.6	77.5°	1304.1	522.1	304.4	286.6	288.8	342.1	642.0	670.9	533.2	406.6
590.9	80°	486.5	313.2	244.4	228.8	222.2	251.0	457.7	535.4	455.4	333.2
259.9	82.5°	253.3	195.5	166.6	166.6	151.1	160.0	246.6	355.5	344.3	228.8
104.4	85°	128.9	111.1	95.5	93.3	84.4	75.5	124.4	211.1	197.7	126.6
46.7	87.5°	68.9	62.2	40.0	37.8	31.1	20.0	22.2	42.2	68.9	55.5
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°
2948.1
3256.9
3365.7
3148.0
2765.9
2390.5
1957.2
1650.7
1461.8
1359.6
1268.5
1155.2
1010.8
795.3
568.7
377.7
228.8
184.4
244.4
308.8
339.9
262.2
346.6
328.8
299.9
368.8
359.9
433.2
446.5
493.2
473.2
426.5
384.3
304.4
180.0
104.4
40.0
0.0

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