

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: P477664

Luminaire Tested: **IFLD-S-SA6A-727-U-T3R**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477664  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6A-727-U-T3R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens  
Light Source: (96) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

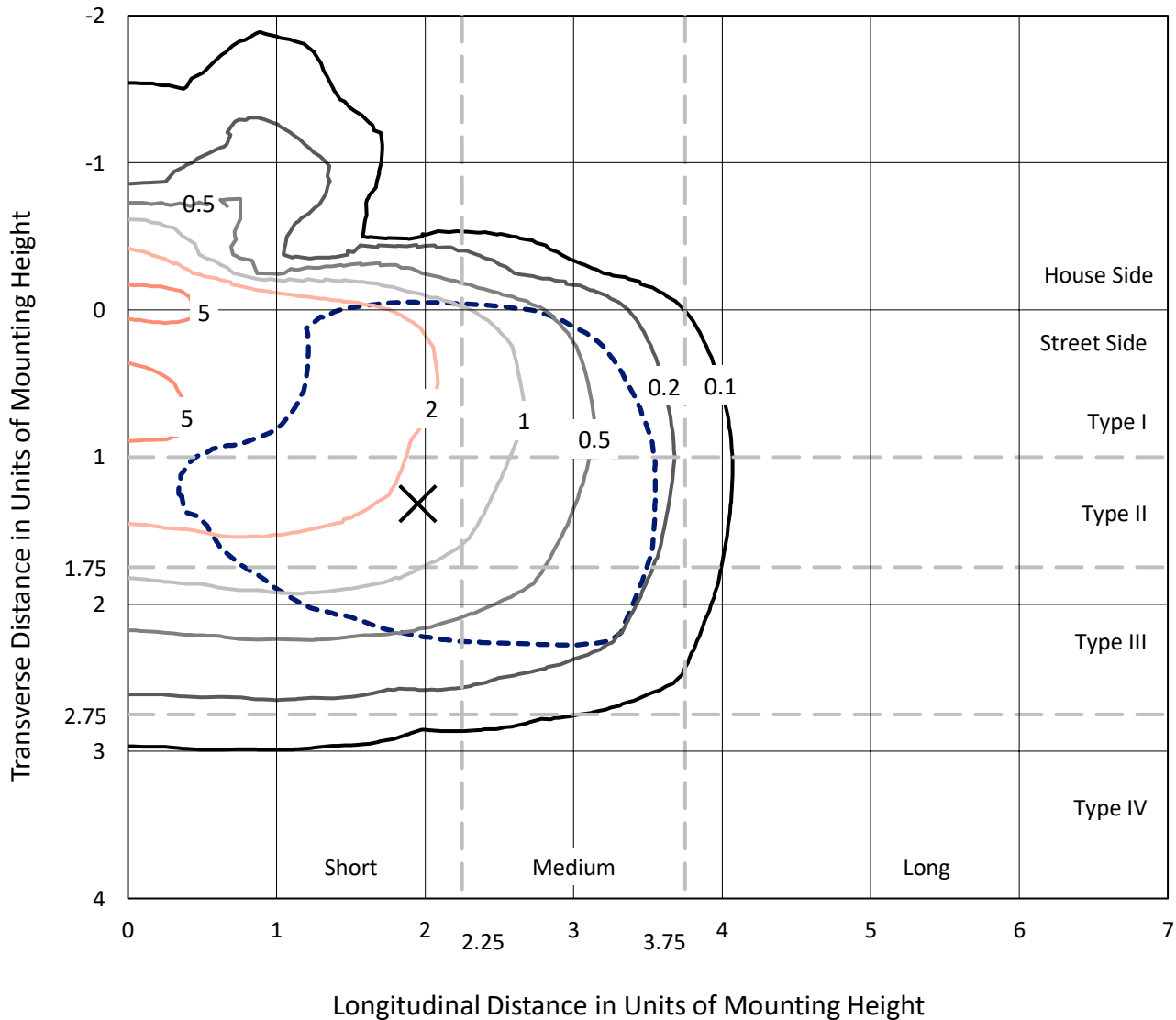
Lumens per Lamp: N/A  
Luminaire Lumens: 22172.1 lumens  
Efficiency: N/A  
Efficacy: 116.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 189.6  
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

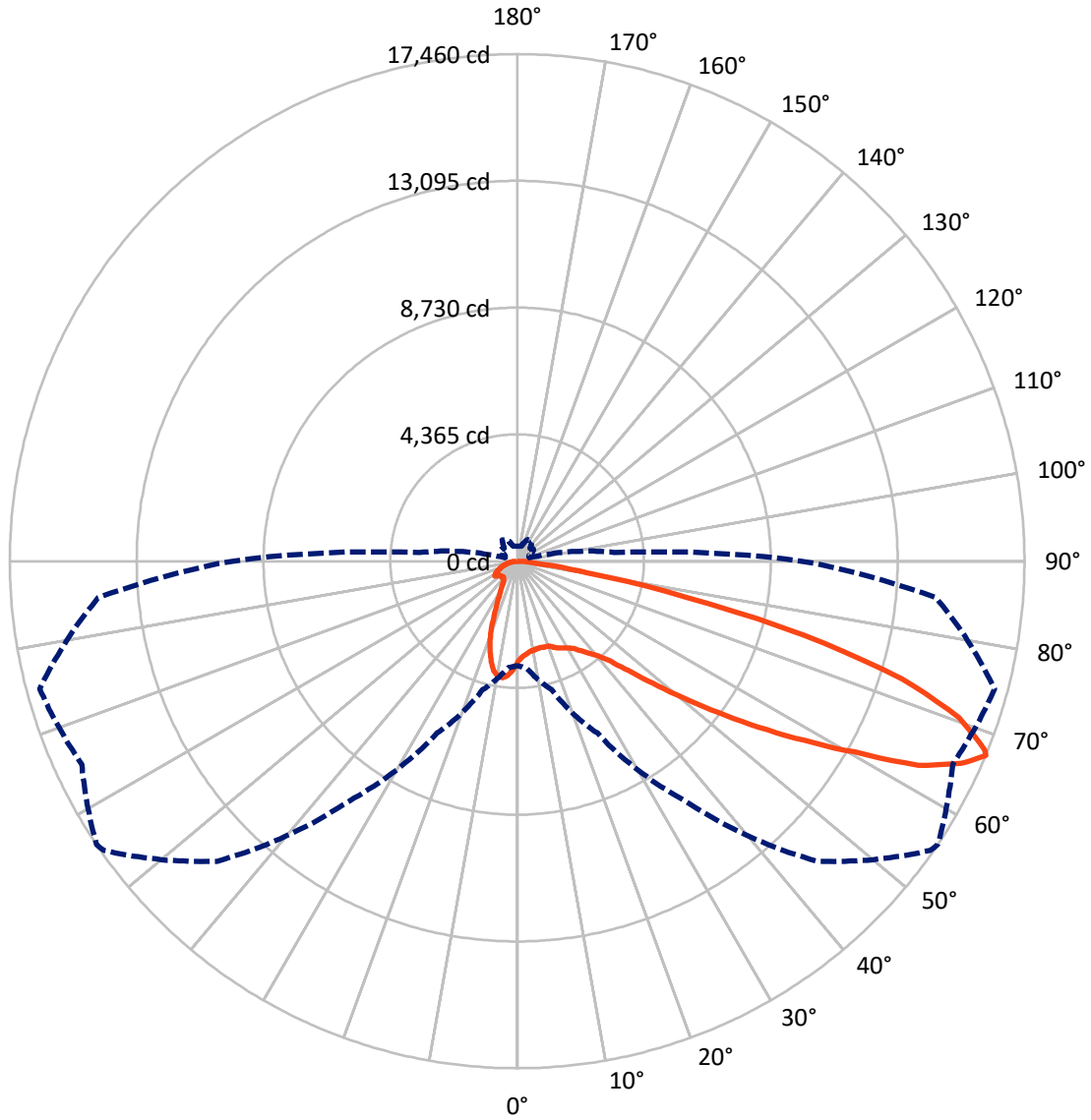
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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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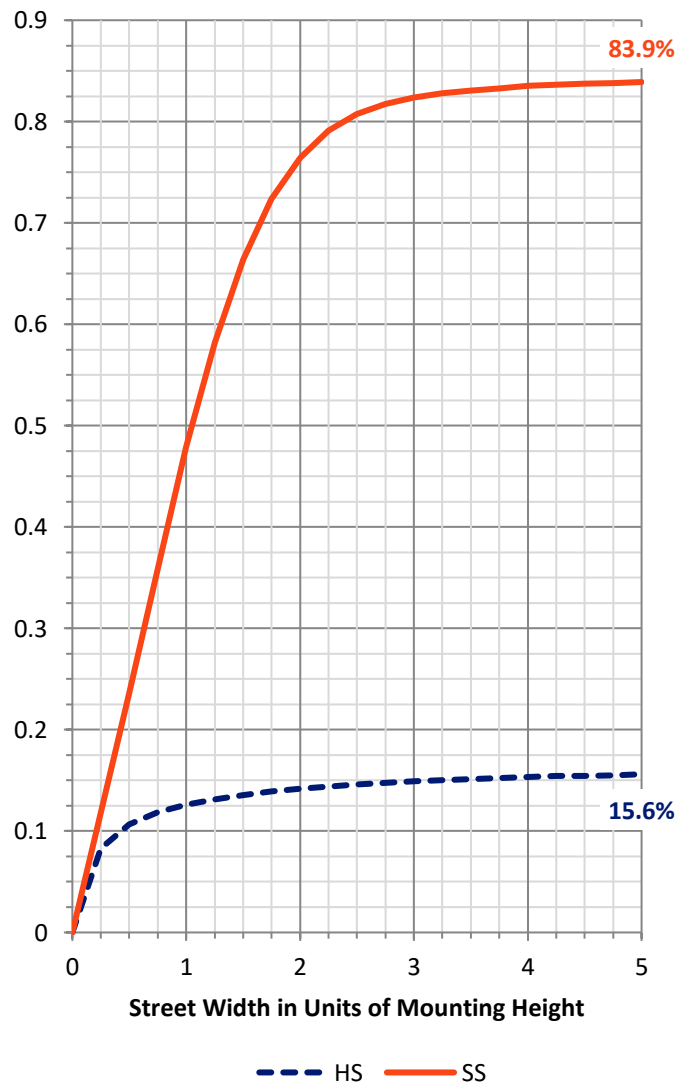
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3510.1	0.0	3510.1
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	18662.0	0.0	18662.0
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	22172.1	0.0	22172.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	332.4	1.5
10°-20°	906.7	4.1
20°-30°	1422.0	6.4
30°-40°	2029.9	9.2
40°-50°	3063.7	13.8
50°-60°	4876.9	22.0
60°-70°	6234.7	28.1
70°-80°	3039.9	13.7
80°-90°	265.9	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°	22172.1	100.0
0°-180°	22172.1	100.0

**Coefficient of Utilization**

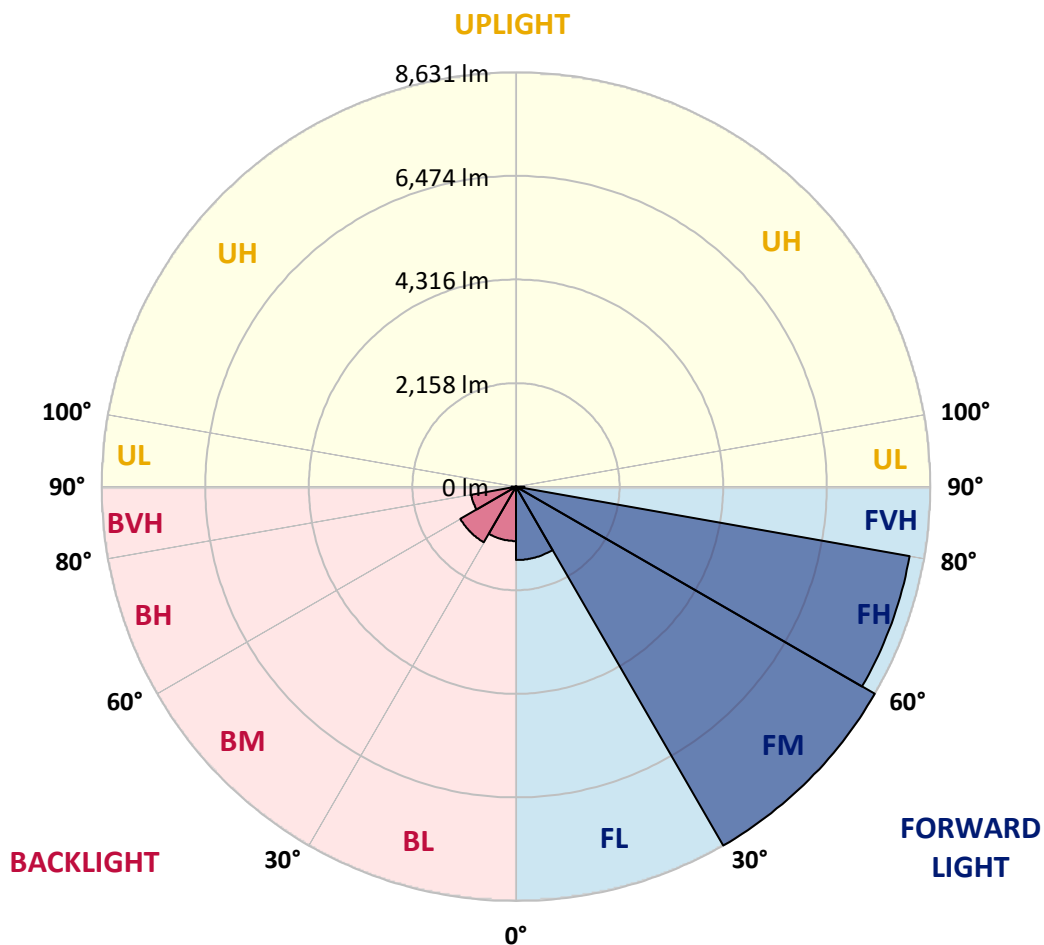


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1527.9	6.9			
FM (30°-60°)	8631.4	38.9			
FH (60°-80°)	8326.1	37.6			G4/12000
FVH (80°-90°)	176.6	0.8			G2/225
BL (0°-30°)	1133.1	5.1	B3/2500		
BM (30°-60°)	1339.1	6.0	B2/2500		
BH (60°-80°)	948.5	4.3	B2/1000		G2/1000
BVH (80°-90°)	89.3	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	3449.9	3449.9	3449.9	3449.9	3449.9	3449.9	3449.9	3449.9	3449.9	3449.9
2.5°	3169.1	3156.1	3171.7	3156.1	3226.3	3267.9	3280.9	3299.1	3364.1	3426.5
5°	3036.6	2979.4	3041.8	3062.6	3067.8	3137.9	3210.7	3223.7	3257.5	3358.9
7.5°	2815.6	2880.6	2857.2	2919.6	2984.6	3054.8	3174.3	3140.5	3265.3	3361.5
10°	2768.8	2774.0	2800.0	2823.4	2880.6	2971.6	3137.9	3117.1	3244.5	3449.9
12.5°	2815.6	2815.6	2807.8	2789.6	2854.6	2943.0	3075.6	3085.9	3286.1	3475.9
15°	2979.4	3010.6	2927.4	2940.4	2914.4	2943.0	3060.0	3083.3	3301.7	3496.7
17.5°	3379.7	3369.3	3270.5	3132.7	3018.4	3000.2	3080.7	3106.7	3286.1	3556.5
20°	3769.7	3748.9	3577.3	3434.3	3208.1	3101.5	3114.5	3117.1	3312.1	3595.5
22.5°	4203.9	4258.5	4071.3	3780.1	3499.3	3234.1	3182.1	3223.7	3371.9	3616.3
25°	4885.0	4768.0	4606.8	4224.7	3772.3	3439.5	3293.9	3314.7	3429.1	3668.3
27.5°	5376.4	5329.6	5077.4	4768.0	4154.5	3600.7	3353.7	3392.7	3533.1	3665.7
30°	5849.5	5849.5	5696.1	5233.4	4557.4	3871.1	3481.1	3462.9	3483.7	3660.5
32.5°	6403.3	6327.9	6106.9	5800.1	5064.4	4118.1	3582.5	3587.7	3587.7	3756.7
35°	6694.5	6816.6	6668.5	6169.3	5451.8	4528.8	3826.9	3787.9	3759.3	3863.3
37.5°	7120.8	7193.6	7037.6	6743.9	5932.7	4861.6	4042.7	4011.5	3845.1	3946.5
40°	7378.2	7365.2	7360.0	7224.8	6569.7	5254.2	4359.8	4279.3	4055.7	4240.3
42.5°	7523.8	7497.8	7817.6	7734.4	7170.2	5831.3	4757.6	4713.4	4466.4	4762.8
45°	7687.6	7880.0	8142.5	8376.5	7869.6	6642.5	5431.0	5368.6	5147.6	5524.6
47.5°	7830.6	8067.1	8402.5	8652.1	8501.3	7523.8	6262.9	6278.5	6132.9	6520.3
50°	8069.7	8093.1	8548.1	9052.5	9169.5	8337.5	7380.8	7354.8	7289.8	7833.2
52.5°	7997.0	8067.1	8641.7	9286.4	9478.8	9198.1	8581.9	8659.9	8574.1	9257.8
55°	6811.4	7022.0	8584.5	9533.4	10212.0	10170.4	10126.2	10074.2	10069.0	10859.3
57.5°	6273.3	6444.9	7562.8	9806.4	10997.1	11303.9	11589.9	11647.1	11644.5	12598.6
60°	5919.7	6096.5	7149.4	9658.2	11665.3	12788.4	13336.9	13344.7	13329.1	14457.4
62.5°	5228.2	5399.8	6434.5	8847.1	11849.8	14158.4	15380.4	15481.7	14766.8	16058.9
65°	4396.2	4536.6	5449.2	7607.0	11358.5	15029.4	16916.8	16797.2	15978.3	16974.0
67°	3595.5	3689.1	4578.2	6530.7	10074.2	14610.8	17361.4	17460.2	16537.3	17013.0
67.5°	3366.7	3452.5	4292.3	6164.1	9585.4	14293.6	17377.0	17361.4	16547.7	17020.8
70°	2337.2	2373.6	2924.8	4240.3	7061.0	12076.0	16108.3	16144.7	15853.5	16097.9
72.5°	1549.5	1604.1	1955.0	2672.6	4162.3	8787.3	13464.3	13854.3	13669.7	13199.1
75°	998.3	1029.5	1279.1	1591.1	2048.6	5004.6	9946.8	10206.8	9783.0	8163.3
77.5°	559.0	592.8	772.1	967.1	998.3	2082.4	5586.9	5909.3	5007.2	3468.1
80°	348.4	392.6	582.4	574.6	475.8	764.3	2303.4	2467.2	2001.8	1193.3
82.5°	262.6	296.4	449.8	403.0	267.8	340.6	863.1	925.5	733.1	460.2
85°	179.4	226.2	325.0	249.6	140.4	163.8	343.2	369.2	335.4	223.6
87.5°	65.0	96.2	169.0	124.8	62.4	49.4	111.8	124.8	119.6	101.4
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°
3449.9	0°	3449.9	3449.9	3449.9	3449.9	3449.9	3449.9	3449.9	3449.9	3449.9	3449.9
3481.1	2.5°	3530.5	3566.9	3585.1	3691.7	3735.9	3728.1	3738.5	3754.1	3769.7	3790.5
3525.3	5°	3559.1	3670.9	3730.7	3855.5	3938.7	3902.3	3949.1	3936.1	3917.9	3915.3
3605.9	7.5°	3652.7	3795.7	3975.1	4008.9	4045.3	3954.3	3876.3	3769.7	3743.7	3652.7
3673.5	10°	3819.1	3936.1	4154.5	4167.5	4006.3	3772.3	3598.1	3377.1	3374.5	3241.9
3777.5	12.5°	3977.7	4110.3	4287.1	4211.7	3826.9	3507.1	3223.7	2982.0	2880.6	2813.0
3839.9	15°	4076.5	4294.9	4388.4	4063.5	3512.3	3080.7	2714.2	2454.2	2350.2	2300.8
3917.9	17.5°	4167.5	4471.6	4430.0	3803.5	3124.9	2641.4	2204.6	1978.4	1949.8	1913.4
4042.7	20°	4292.3	4536.6	4281.9	3465.5	2685.6	2074.6	1796.5	1687.3	1713.3	1728.9
4055.7	22.5°	4409.2	4570.4	4094.7	3096.3	2121.4	1643.1	1505.3	1528.7	1567.7	1619.7
4086.9	25°	4461.2	4625.0	3842.5	2586.8	1614.5	1383.1	1351.9	1390.9	1455.9	1458.5
4131.1	27.5°	4495.0	4586.0	3538.3	2090.2	1276.5	1208.9	1255.7	1284.3	1292.1	1323.3
4224.7	30°	4554.8	4505.4	3153.5	1494.9	1071.1	1073.7	1133.5	1133.5	1133.5	1156.9
4318.2	32.5°	4658.8	4450.8	2703.8	1091.9	922.9	1006.1	990.5	985.3	974.9	946.3
4437.8	35°	4723.8	4302.7	2134.4	808.5	829.3	922.9	917.7	837.1	701.9	634.3
4742.0	37.5°	4859.0	4227.3	1570.3	623.9	774.7	881.3	852.7	657.7	509.6	444.6
5119.0	40°	5150.2	4177.9	1086.7	546.0	738.3	860.5	761.7	561.6	390.0	275.6
5701.3	42.5°	5506.4	4180.5	738.3	514.8	740.9	904.7	733.1	481.0	275.6	221.0
6478.7	45°	5984.7	4141.5	507.0	514.8	787.7	977.5	751.3	436.8	267.8	280.8
7453.6	47.5°	6499.5	4175.3	377.0	468.0	795.5	980.1	686.3	429.0	257.4	325.0
8514.3	50°	7100.0	4209.1	312.0	431.6	798.1	948.9	631.7	418.6	267.8	343.2
9731.0	52.5°	7718.8	4315.6	265.2	408.2	829.3	935.9	631.7	434.2	267.8	299.0
11280.5	55°	8641.7	4588.6	382.2	509.6	943.7	1021.7	777.3	608.4	374.4	384.8
12765.0	57.5°	9660.8	4869.4	426.4	535.6	969.7	920.3	837.1	670.7	395.2	397.8
13919.3	60°	10331.6	4879.8	423.8	522.6	907.3	795.5	818.9	707.1	403.0	340.6
14634.2	62.5°	10599.3	4562.6	442.0	522.6	844.9	743.5	839.7	761.7	416.0	426.4
14837.0	65°	10295.2	3907.5	426.4	468.0	743.5	665.5	844.9	772.1	455.0	429.0
14473.0	67°	9819.4	3366.7	434.2	444.6	691.5	631.7	889.1	811.1	527.8	514.8
14283.2	67.5°	9684.2	3223.7	431.6	431.6	673.3	621.3	899.5	811.1	538.2	533.0
12606.4	70°	8535.1	2612.8	442.0	426.4	595.4	590.2	956.7	855.3	618.7	623.9
9260.4	72.5°	6496.9	1981.0	439.4	426.4	517.4	564.2	964.5	883.9	673.3	623.9
5186.6	75°	3691.7	1185.5	387.4	371.8	408.2	491.4	902.1	842.3	655.1	559.0
2072.0	77.5°	1526.1	611.0	356.2	335.4	338.0	400.4	751.3	785.1	623.9	475.8
691.5	80°	569.4	366.6	286.0	267.8	260.0	293.8	535.6	626.5	533.0	390.0
304.2	82.5°	296.4	228.8	195.0	195.0	176.8	187.2	288.6	416.0	403.0	267.8
122.2	85°	150.8	130.0	111.8	109.2	98.8	88.4	145.6	247.0	231.4	148.2
54.6	87.5°	80.6	72.8	46.8	44.2	36.4	23.4	26.0	49.4	80.6	65.0
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>
3449.9
3811.3
3938.7
3683.9
3236.7
2797.4
2290.4
1931.6
1710.7
1591.1
1484.5
1351.9
1182.9
930.7
665.5
442.0
267.8
215.8
286.0
361.4
397.8
306.8
405.6
384.8
351.0
431.6
421.2
507.0
522.6
577.2
553.8
499.2
449.8
356.2
210.6
122.2
46.8
0.0

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