

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: P477947

Luminaire Tested: **IFLD-L-SA7A-830-U-T3R**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477947  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-830-U-T3R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens  
Light Source: (112) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

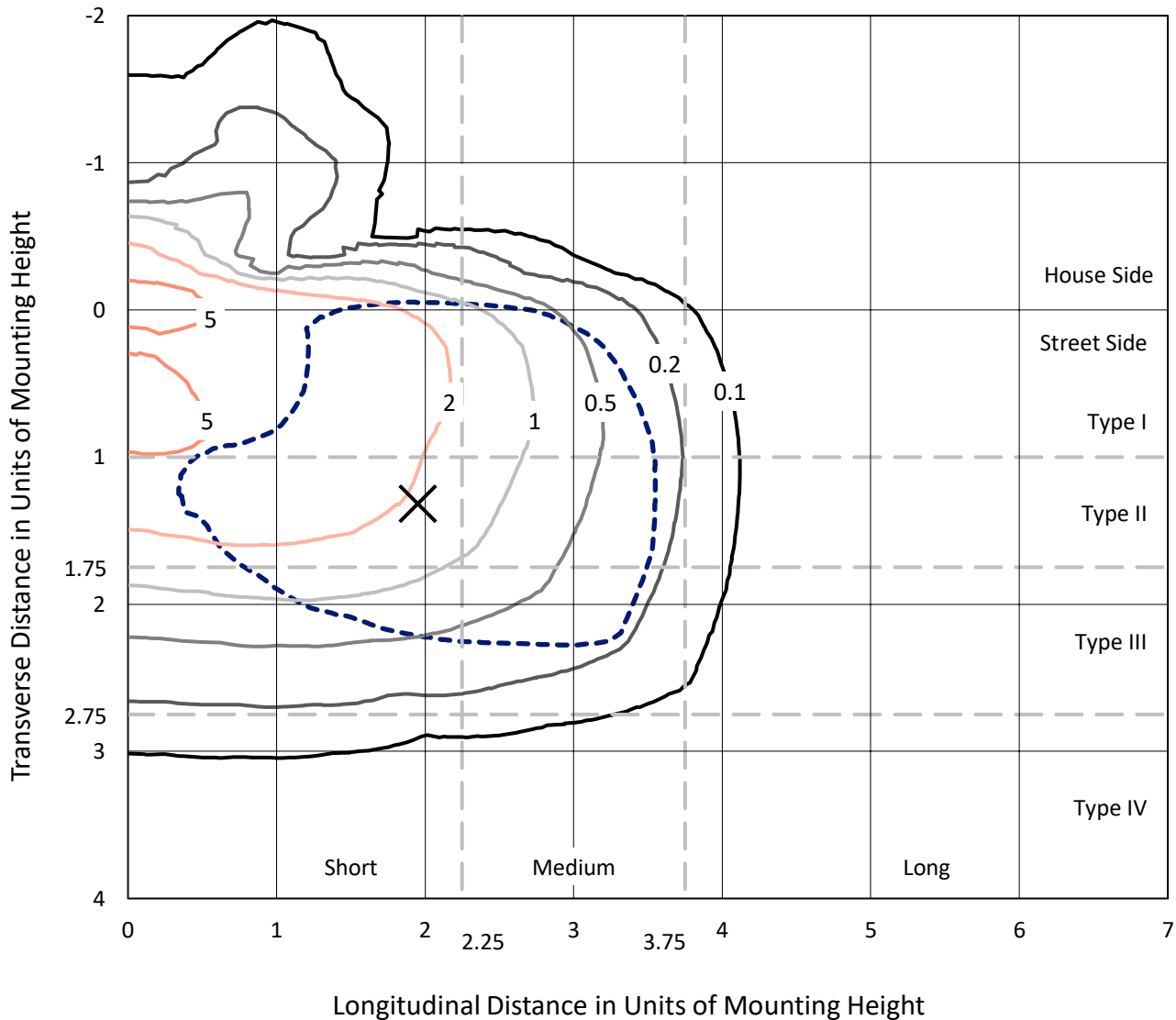
Lumens per Lamp: N/A  
Luminaire Lumens: 24431.1 lumens  
Efficiency: N/A  
Efficacy: 112.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 217.6  
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

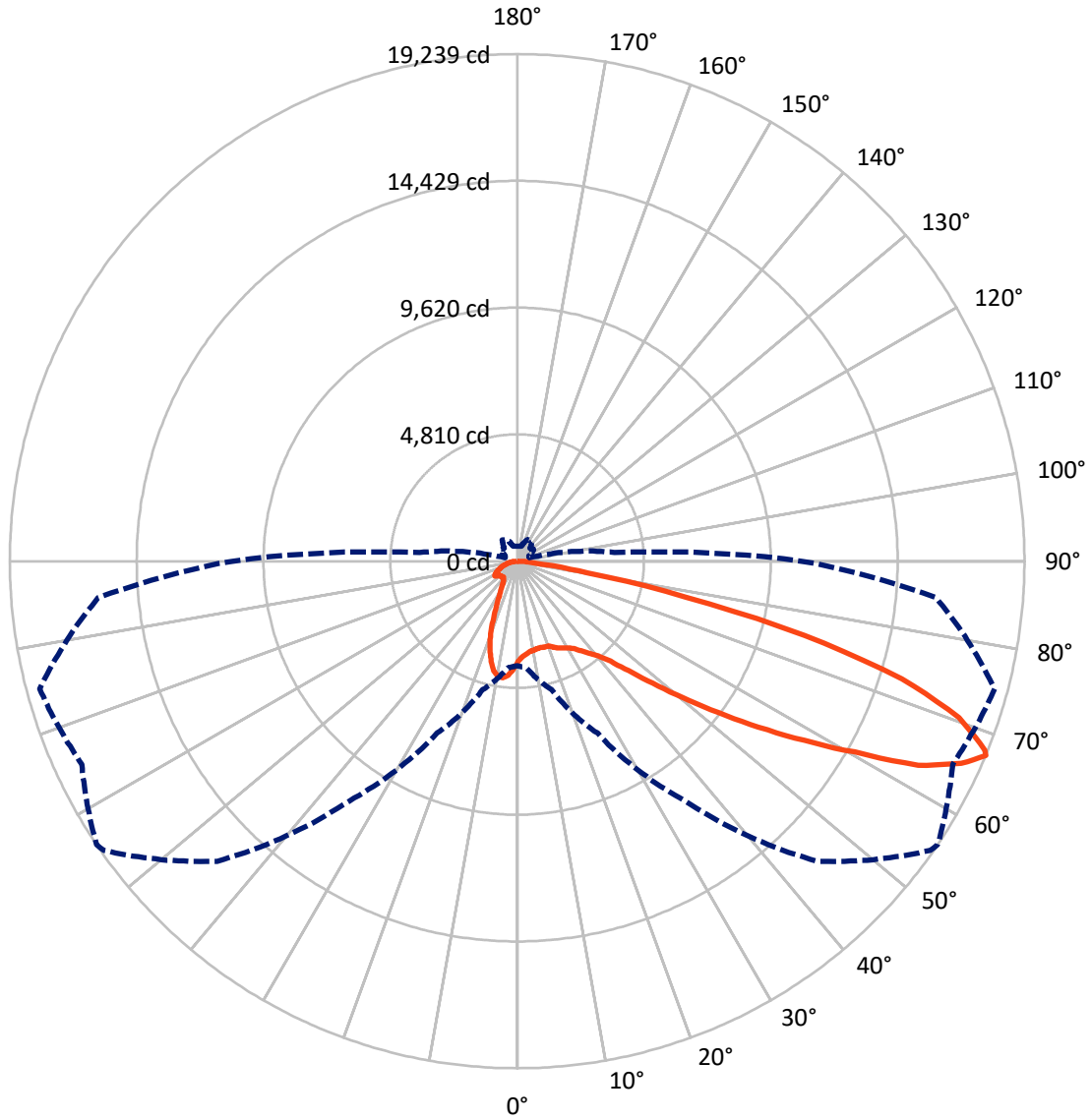
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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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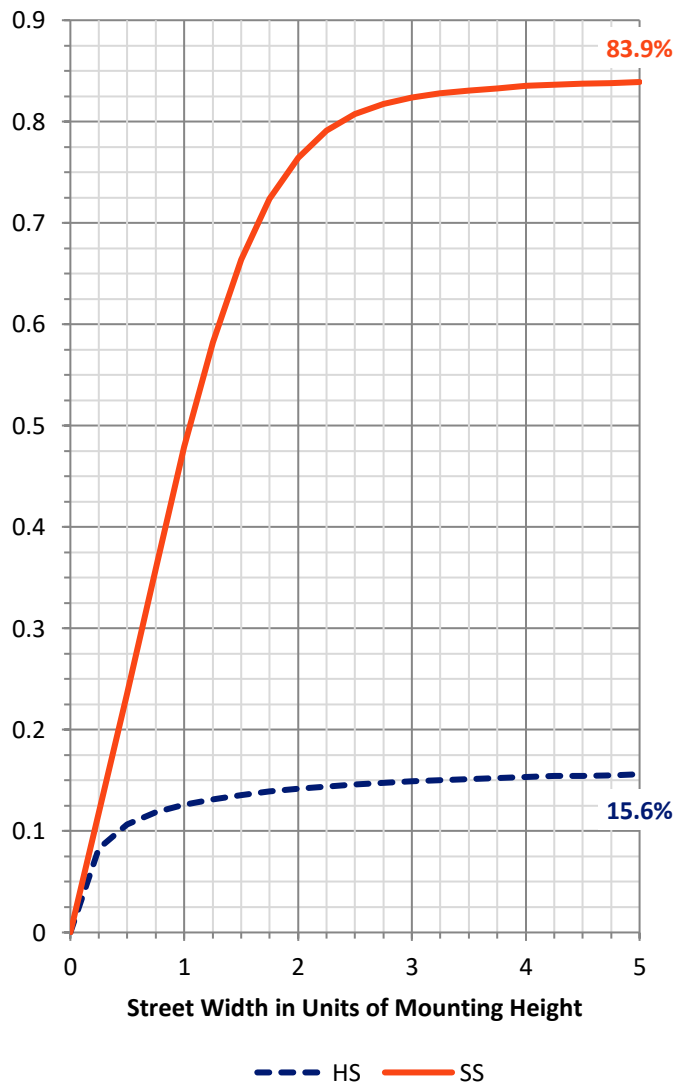
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3867.7	0.0	3867.7
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	20563.4	0.0	20563.4
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	24431.1	0.0	24431.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	366.2	1.5
10°-20°	999.1	4.1
20°-30°	1566.9	6.4
30°-40°	2236.7	9.2
40°-50°	3375.9	13.8
50°-60°	5373.8	22.0
60°-70°	6870.0	28.1
70°-80°	3349.6	13.7
80°-90°	293.0	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°	24431.1	100.0
0°-180°	24431.1	100.0

**Coefficient of Utilization**

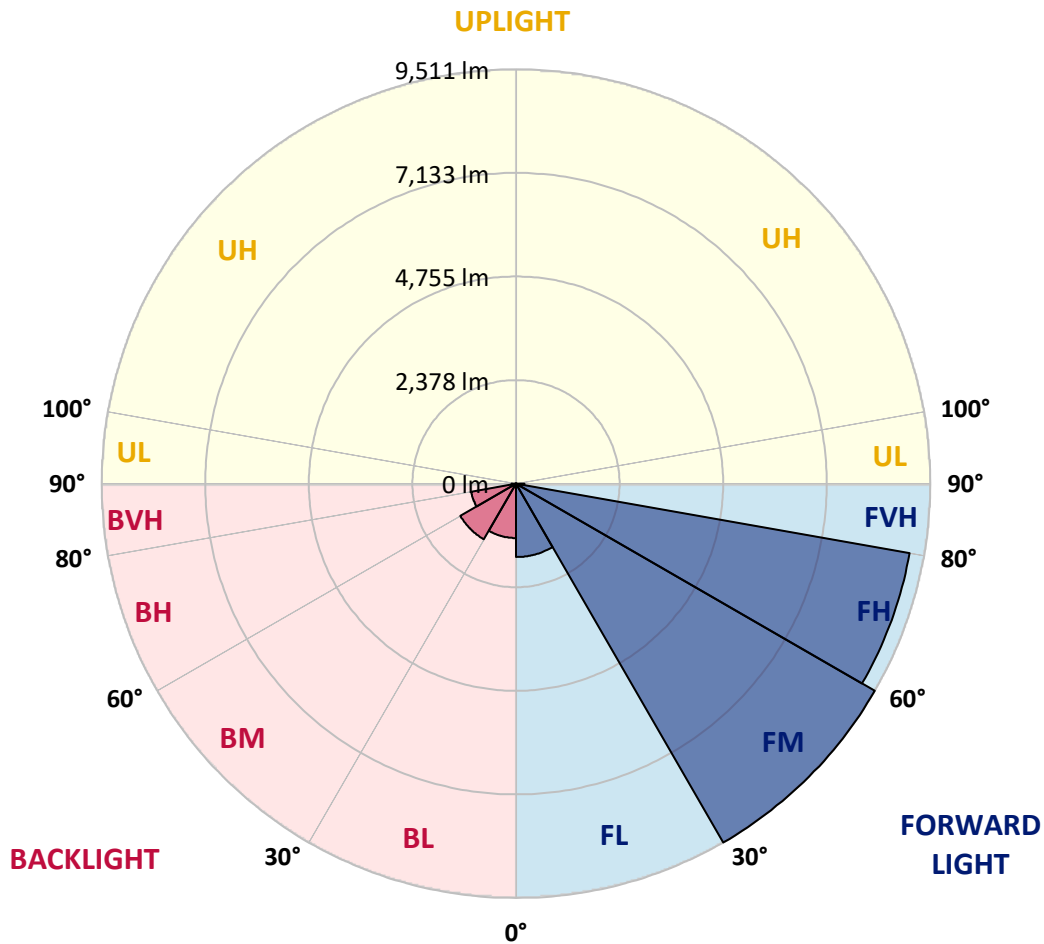


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1683.6	6.9			
FM (30°-60°)	9510.8	38.9			
FH (60°-80°)	9174.4	37.6			G4/12000
FVH (80°-90°)	194.6	0.8			G2/225
BL (0°-30°)	1248.6	5.1	B3/2500		
BM (30°-60°)	1475.6	6.0	B2/2500		
BH (60°-80°)	1045.1	4.3	B3/2500		G3/2500
BVH (80°-90°)	98.4	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°	3801.4	3801.4	3801.4	3801.4	3801.4	3801.4	3801.4	3801.4	3801.4	3801.4
2.5°	3492.0	3477.7	3494.9	3477.7	3555.1	3600.9	3615.2	3635.3	3706.9	3775.6
5°	3345.9	3282.9	3351.7	3374.6	3380.3	3457.7	3537.9	3552.2	3589.4	3701.2
7.5°	3102.4	3174.1	3148.3	3217.0	3288.6	3366.0	3497.8	3460.5	3598.0	3704.0
10°	3050.9	3056.6	3085.2	3111.0	3174.1	3274.3	3457.7	3434.7	3575.1	3801.4
12.5°	3102.4	3102.4	3093.8	3073.8	3145.4	3242.8	3388.9	3400.4	3620.9	3830.1
15°	3282.9	3317.3	3225.6	3239.9	3211.3	3242.8	3371.7	3397.5	3638.1	3853.0
17.5°	3724.1	3712.6	3603.8	3451.9	3325.9	3305.8	3394.6	3423.3	3620.9	3918.9
20°	4153.8	4130.9	3941.8	3784.2	3535.0	3417.5	3431.9	3434.7	3649.6	3961.8
22.5°	4632.2	4692.3	4486.1	4165.2	3855.8	3563.6	3506.4	3552.2	3715.5	3984.8
25°	5382.7	5253.8	5076.2	4655.1	4156.6	3790.0	3629.5	3652.5	3778.5	4042.0
27.5°	5924.1	5872.6	5594.7	5253.8	4577.7	3967.6	3695.4	3738.4	3893.1	4039.2
30°	6445.5	6445.5	6276.5	5766.6	5021.8	4265.5	3835.8	3815.7	3838.7	4033.5
32.5°	7055.7	6972.6	6729.1	6391.1	5580.4	4537.6	3947.5	3953.2	3953.2	4139.4
35°	7376.5	7511.2	7347.9	6797.9	6007.2	4990.3	4216.8	4173.8	4142.3	4256.9
37.5°	7846.3	7926.5	7754.7	7430.9	6537.2	5356.9	4454.6	4420.2	4236.8	4348.6
40°	8129.9	8115.6	8109.9	7960.9	7239.0	5789.5	4804.0	4715.2	4468.9	4672.3
42.5°	8290.3	8261.7	8614.1	8522.4	7900.8	6425.4	5242.3	5193.6	4921.5	5248.1
45°	8470.8	8682.8	8972.1	9230.0	8671.3	7319.2	5984.3	5915.5	5672.0	6087.4
47.5°	8628.4	8889.1	9258.6	9533.6	9367.5	8290.3	6901.0	6918.2	6757.8	7184.6
50°	8891.9	8917.7	9419.0	9974.8	10103.7	9187.0	8132.8	8104.1	8032.5	8631.2
52.5°	8811.7	8889.1	9522.2	10232.6	10444.6	10135.2	9456.3	9542.2	9447.7	10201.1
55°	7505.4	7737.5	9459.1	10504.7	11252.4	11206.6	11157.9	11100.6	11094.9	11965.7
57.5°	6912.4	7101.5	8333.3	10805.5	12117.5	12455.6	12770.7	12833.7	12830.8	13882.2
60°	6522.8	6717.6	7877.8	10642.2	12853.8	14091.3	14695.7	14704.3	14687.1	15930.4
62.5°	5760.8	5949.9	7090.1	9748.5	13057.2	15601.0	16947.4	17059.1	16271.3	17695.0
65°	4844.2	4998.8	6004.3	8382.0	12515.7	16560.6	18640.4	18508.6	17606.2	18703.4
67°	3961.8	4065.0	5044.7	7196.0	11100.6	16099.4	19130.2	19239.1	18222.1	18746.4
67.5°	3709.7	3804.3	4729.6	6792.1	10562.0	15749.9	19147.4	19130.2	18233.6	18755.0
70°	2575.3	2615.4	3222.8	4672.3	7780.4	13306.4	17749.5	17789.6	17468.7	17738.0
72.5°	1707.3	1767.5	2154.2	2944.9	4586.3	9682.6	14836.1	15265.8	15062.4	14543.9
75°	1100.0	1134.4	1409.4	1753.2	2257.4	5514.5	10960.2	11246.7	10779.7	8995.1
77.5°	615.9	653.1	850.8	1065.7	1100.0	2294.6	6156.2	6511.4	5517.3	3821.5
80°	383.9	432.6	641.7	633.1	524.2	842.2	2538.1	2718.6	2205.8	1314.9
82.5°	289.3	326.6	495.6	444.0	295.1	375.3	951.1	1019.8	807.8	507.0
85°	197.7	249.2	358.1	275.0	154.7	180.5	378.1	406.8	369.5	246.4
87.5°	71.6	106.0	186.2	137.5	68.8	54.4	123.2	137.5	131.8	111.7
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°
3801.4	0°	3801.4	3801.4	3801.4	3801.4	3801.4	3801.4	3801.4	3801.4	3801.4	3801.4
3835.8	2.5°	3890.2	3930.3	3950.4	4067.8	4116.5	4107.9	4119.4	4136.6	4153.8	4176.7
3884.5	5°	3921.7	4044.9	4110.8	4248.3	4340.0	4299.9	4351.4	4337.1	4317.1	4314.2
3973.3	7.5°	4024.9	4182.4	4380.1	4417.3	4457.4	4357.2	4271.2	4153.8	4125.1	4024.9
4047.8	10°	4208.2	4337.1	4577.7	4592.1	4414.5	4156.6	3964.7	3721.2	3718.3	3572.2
4162.4	12.5°	4382.9	4529.0	4723.8	4640.8	4216.8	3864.4	3552.2	3285.8	3174.1	3099.6
4231.1	15°	4491.8	4732.4	4835.6	4477.5	3870.2	3394.6	2990.7	2704.2	2589.7	2535.2
4317.1	17.5°	4592.1	4927.2	4881.4	4191.0	3443.3	2910.5	2429.2	2180.0	2148.5	2108.4
4454.6	20°	4729.6	4998.8	4718.1	3818.6	2959.2	2286.0	1979.5	1859.2	1887.8	1905.0
4468.9	22.5°	4858.5	5036.1	4511.9	3411.8	2337.6	1810.5	1658.6	1684.4	1727.4	1784.7
4503.3	25°	4915.8	5096.2	4234.0	2850.3	1779.0	1524.0	1489.6	1532.6	1604.2	1607.1
4552.0	27.5°	4953.0	5053.3	3898.8	2303.2	1406.6	1332.1	1383.6	1415.1	1423.7	1458.1
4655.1	30°	5018.9	4964.5	3474.8	1647.2	1180.2	1183.1	1249.0	1249.0	1249.0	1274.8
4758.2	32.5°	5133.5	4904.3	2979.3	1203.2	1017.0	1108.6	1091.4	1085.7	1074.3	1042.7
4890.0	35°	5205.1	4741.0	2351.9	890.9	913.8	1017.0	1011.2	922.4	773.5	699.0
5225.2	37.5°	5354.1	4657.9	1730.3	687.5	853.7	971.1	939.6	724.8	561.5	489.9
5640.5	40°	5674.9	4603.5	1197.4	601.6	813.6	948.2	839.3	618.8	429.7	303.7
6282.2	42.5°	6067.4	4606.4	813.6	567.2	816.4	996.9	807.8	530.0	303.7	243.5
7138.8	45°	6594.5	4563.4	558.6	567.2	868.0	1077.1	827.9	481.3	295.1	309.4
8213.0	47.5°	7161.7	4600.7	415.4	515.6	876.6	1080.0	756.3	472.7	283.6	358.1
9381.8	50°	7823.4	4637.9	343.8	475.5	879.5	1045.6	696.1	461.2	295.1	378.1
10722.4	52.5°	8505.2	4755.3	292.2	449.8	913.8	1031.3	696.1	478.4	295.1	329.4
12429.8	55°	9522.2	5056.1	421.1	561.5	1039.9	1125.8	856.5	670.3	412.5	424.0
14065.5	57.5°	10645.1	5365.5	469.8	590.1	1068.5	1014.1	922.4	739.1	435.4	438.3
15337.4	60°	11384.2	5377.0	466.9	575.8	999.8	876.6	902.4	779.2	444.0	375.3
16125.2	62.5°	11679.2	5027.5	487.0	575.8	931.0	819.3	925.3	839.3	458.3	469.8
16348.7	65°	11344.1	4305.6	469.8	515.6	819.3	733.4	931.0	850.8	501.3	472.7
15947.6	67°	10819.8	3709.7	478.4	489.9	762.0	696.1	979.7	893.8	581.5	567.2
15738.5	67.5°	10670.9	3552.2	475.5	475.5	741.9	684.7	991.2	893.8	593.0	587.3
13890.8	70°	9404.7	2879.0	487.0	469.8	656.0	650.3	1054.2	942.5	681.8	687.5
10203.9	72.5°	7158.8	2182.9	484.1	469.8	570.1	621.6	1062.8	974.0	741.9	687.5
5715.0	75°	4067.8	1306.3	426.8	409.6	449.8	541.4	994.0	928.2	721.9	615.9
2283.1	77.5°	1681.6	673.2	392.5	369.5	372.4	441.2	827.9	865.1	687.5	524.2
762.0	80°	627.4	403.9	315.1	295.1	286.5	323.7	590.1	690.4	587.3	429.7
335.2	82.5°	326.6	252.1	214.9	214.9	194.8	206.3	318.0	458.3	444.0	295.1
134.6	85°	166.2	143.2	123.2	120.3	108.9	97.4	160.4	272.1	255.0	163.3
60.2	87.5°	88.8	80.2	51.6	48.7	40.1	25.8	28.6	54.4	88.8	71.6
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>
3801.4
4199.6
4340.0
4059.2
3566.5
3082.4
2523.8
2128.4
1885.0
1753.2
1635.7
1489.6
1303.4
1025.6
733.4
487.0
295.1
237.8
315.1
398.2
438.3
338.0
446.9
424.0
386.7
475.5
464.1
558.6
575.8
636.0
610.2
550.0
495.6
392.5
232.0
134.6
51.6
0.0

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