

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: P477769

Luminaire Tested: **IFLD-S-SA3D-740-U-T3R**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477769  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-740-U-T3R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens  
Light Source: (48) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

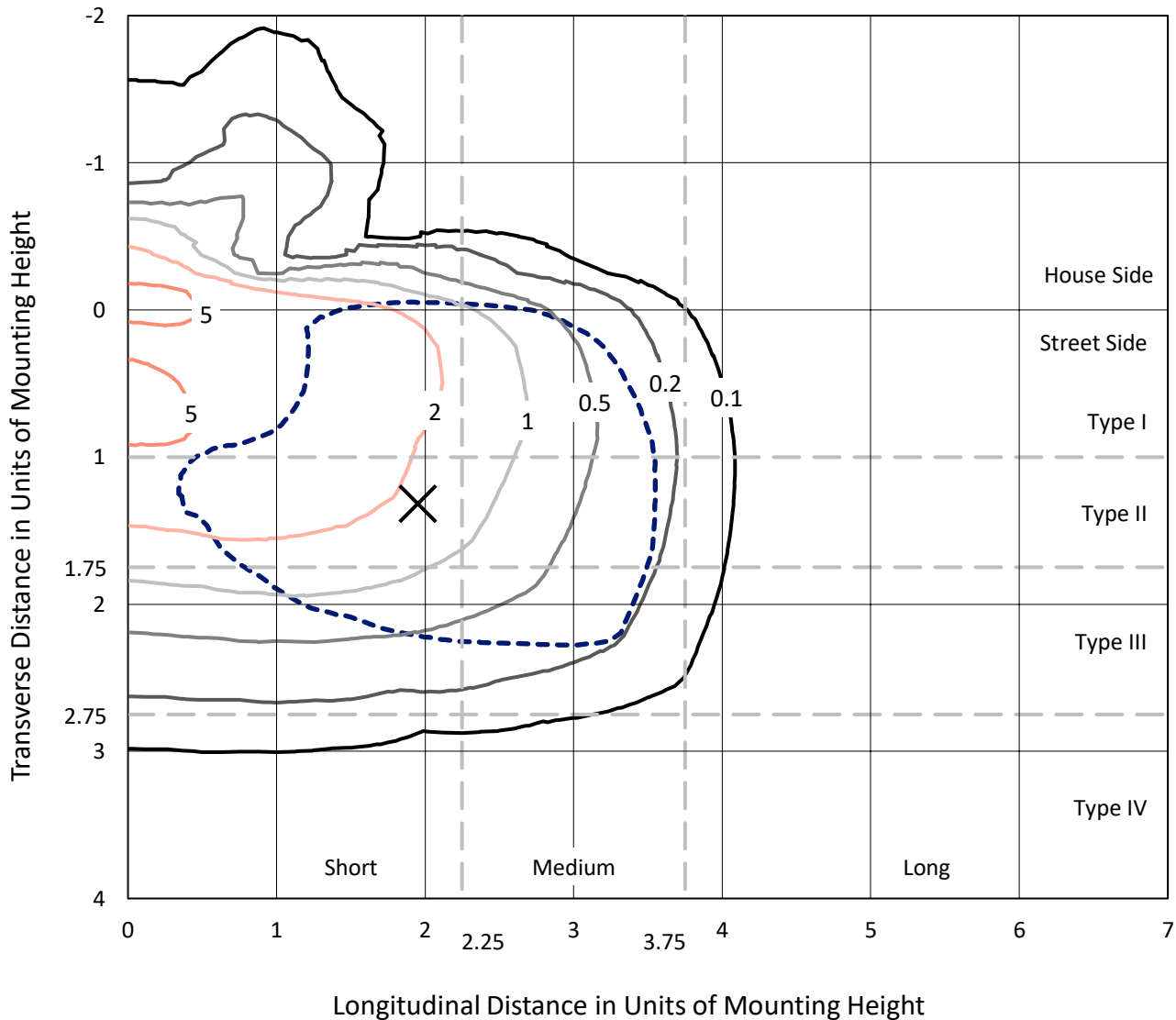
Lumens per Lamp: N/A  
Luminaire Lumens: 22894.4 lumens  
Efficiency: N/A  
Efficacy: 124.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 184.1  
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

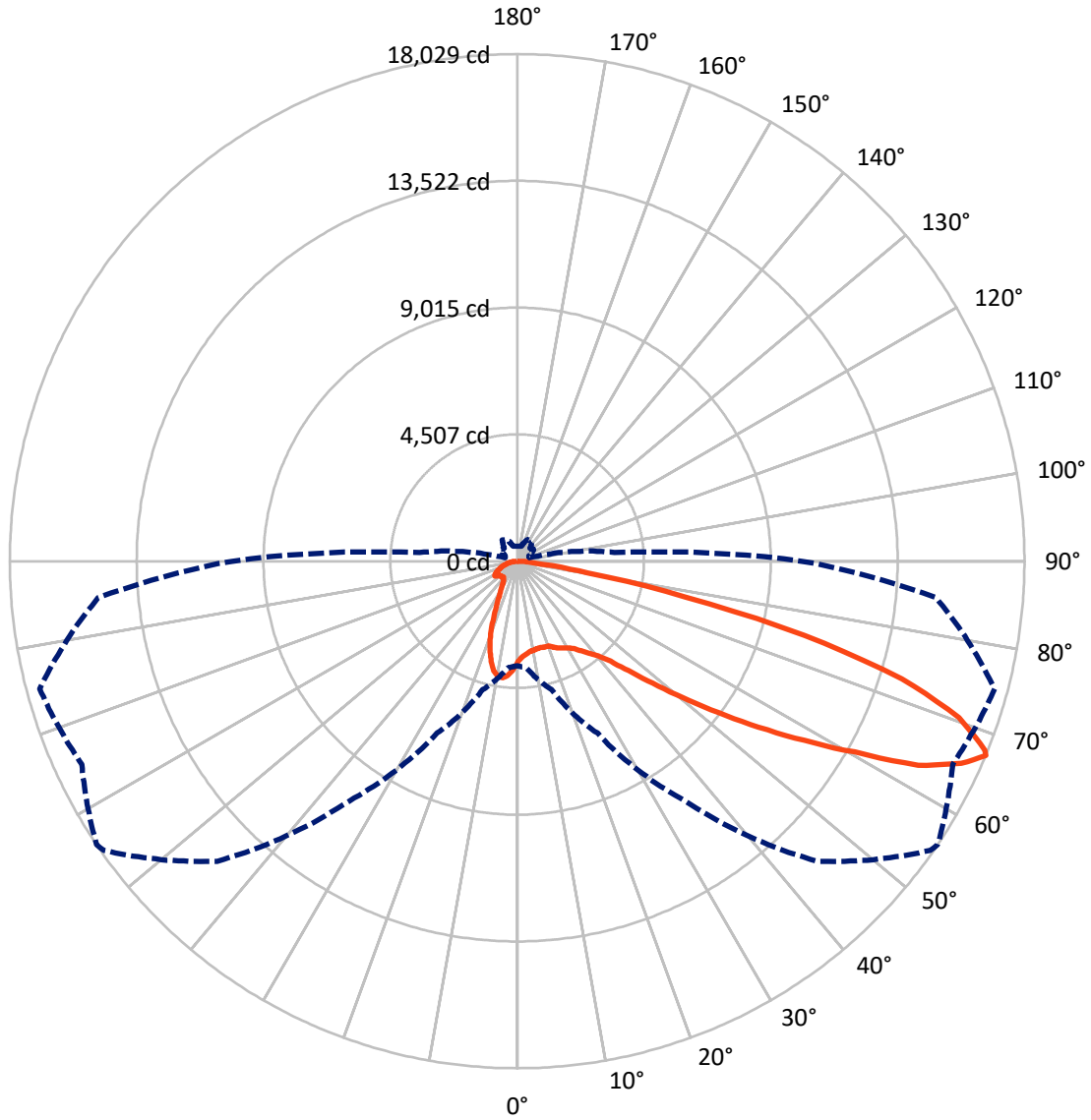
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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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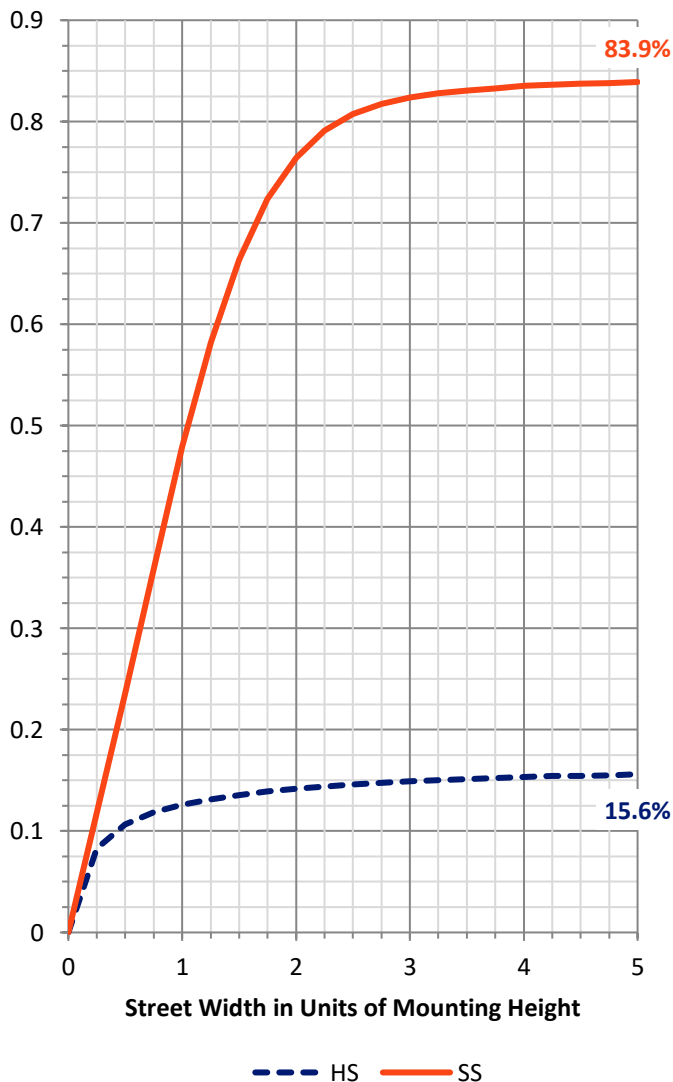
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3624.4	0.0	3624.4
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	19270.0	0.0	19270.0
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	22894.4	0.0	22894.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	343.2	1.5
10°-20°	936.2	4.1
20°-30°	1468.3	6.4
30°-40°	2096.0	9.2
40°-50°	3163.5	13.8
50°-60°	5035.8	22.0
60°-70°	6437.9	28.1
70°-80°	3138.9	13.7
80°-90°	274.6	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°	22894.4	100.0
0°-180°	22894.4	100.0

**Coefficient of Utilization**

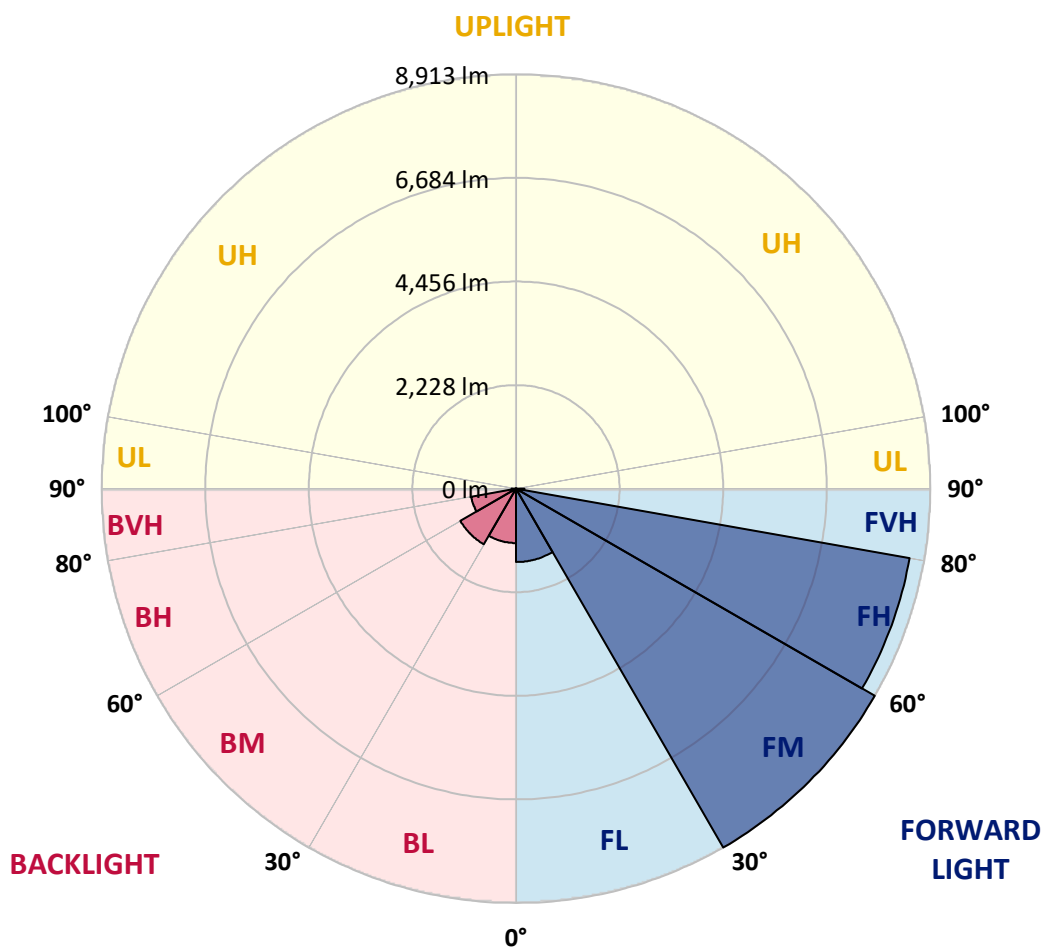


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1577.7	6.9			
FM (30°-60°)	8912.6	38.9			
FH (60°-80°)	8597.4	37.6			G4/12000
FVH (80°-90°)	182.4	0.8			G2/225
BL (0°-30°)	1170.1	5.1	B3/2500		
BM (30°-60°)	1382.8	6.0	B2/2500		
BH (60°-80°)	979.4	4.3	B2/1000		G2/1000
BVH (80°-90°)	92.2	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°	3562.3	3562.3	3562.3	3562.3	3562.3	3562.3	3562.3	3562.3	3562.3	3562.3
2.5°	3272.4	3259.0	3275.1	3259.0	3331.4	3374.4	3387.8	3406.6	3473.7	3538.1
5°	3135.5	3076.4	3140.8	3162.3	3167.7	3240.2	3315.3	3328.8	3363.7	3468.4
7.5°	2907.3	2974.4	2950.2	3014.7	3081.8	3154.3	3277.8	3242.9	3371.7	3471.0
10°	2859.0	2864.3	2891.2	2915.3	2974.4	3068.4	3240.2	3218.7	3350.2	3562.3
12.5°	2907.3	2907.3	2899.2	2880.4	2947.6	3038.8	3175.7	3186.5	3393.2	3589.2
15°	3076.4	3108.6	3022.7	3036.1	3009.3	3038.8	3159.6	3183.8	3409.3	3610.6
17.5°	3489.8	3479.1	3377.1	3234.8	3116.7	3097.9	3181.1	3208.0	3393.2	3672.4
20°	3892.5	3871.0	3693.8	3546.2	3312.7	3202.6	3216.0	3218.7	3420.0	3712.6
22.5°	4340.8	4397.2	4203.9	3903.2	3613.3	3339.5	3285.8	3328.8	3481.8	3734.1
25°	5044.1	4923.3	4756.9	4362.3	3895.2	3551.6	3401.2	3422.7	3540.8	3787.8
27.5°	5551.5	5503.2	5242.8	4923.3	4289.8	3718.0	3463.0	3503.2	3648.2	3785.1
30°	6040.1	6040.1	5881.7	5403.9	4705.9	3997.2	3594.5	3575.7	3597.2	3779.8
32.5°	6611.9	6534.0	6305.8	5989.1	5229.4	4252.2	3699.2	3704.6	3704.6	3879.1
35°	6912.5	7038.7	6885.7	6370.3	5629.4	4676.4	3951.6	3911.3	3881.8	3989.1
37.5°	7352.8	7428.0	7266.9	6963.5	6126.0	5020.0	4174.4	4142.2	3970.3	4075.0
40°	7618.6	7605.1	7599.8	7460.2	6783.7	5425.3	4501.9	4418.7	4187.8	4378.4
42.5°	7768.9	7742.0	8072.2	7986.3	7403.8	6021.3	4912.6	4867.0	4611.9	4918.0
45°	7938.0	8136.7	8407.8	8649.4	8125.9	6858.9	5607.9	5543.5	5315.3	5704.5
47.5°	8085.7	8329.9	8676.2	8934.0	8778.3	7768.9	6466.9	6483.0	6332.7	6732.7
50°	8332.6	8356.8	8826.6	9347.4	9468.2	8609.1	7621.2	7594.4	7527.3	8088.3
52.5°	8257.5	8329.9	8923.2	9589.0	9787.6	9497.7	8861.5	8942.0	8853.4	9559.4
55°	7033.3	7250.8	8864.2	9844.0	10544.6	10501.7	10456.1	10402.4	10397.0	11213.1
57.5°	6477.7	6654.8	7809.2	10125.9	11355.4	11672.1	11967.4	12026.5	12023.8	13009.0
60°	6112.6	6295.1	7382.3	9972.9	12045.3	13205.0	13771.4	13779.4	13763.3	14928.4
62.5°	5398.5	5575.7	6644.1	9135.3	12235.9	14619.7	15881.4	15986.1	15247.9	16582.0
65°	4539.5	4684.4	5626.7	7854.8	11728.5	15519.0	17467.9	17344.4	16498.8	17527.0
67°	3712.6	3809.3	4727.4	6743.4	10402.4	15086.8	17927.0	18029.0	17076.0	17567.3
67.5°	3476.4	3565.0	4432.1	6364.9	9897.7	14759.3	17943.1	17927.0	17086.7	17575.3
70°	2413.3	2450.9	3020.0	4378.4	7291.1	12469.4	16633.1	16670.6	16370.0	16622.3
72.5°	1600.0	1656.3	2018.7	2759.6	4297.9	9073.6	13902.9	14305.6	14115.0	13629.1
75°	1030.8	1063.1	1320.8	1642.9	2115.4	5167.6	10270.8	10539.3	10101.7	8429.3
77.5°	577.2	612.1	797.3	998.6	1030.8	2150.3	5769.0	6101.8	5170.3	3581.1
80°	359.7	405.4	601.3	593.3	491.3	789.2	2378.5	2547.6	2067.1	1232.2
82.5°	271.1	306.0	464.4	416.1	276.5	351.7	891.2	955.7	757.0	475.2
85°	185.2	233.5	335.6	257.7	145.0	169.1	354.4	381.2	346.3	230.9
87.5°	67.1	99.3	174.5	128.9	64.4	51.0	115.4	128.9	123.5	104.7
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°
3562.3	0°	3562.3	3562.3	3562.3	3562.3	3562.3	3562.3	3562.3	3562.3	3562.3	3562.3
3594.5	2.5°	3645.5	3683.1	3701.9	3812.0	3857.6	3849.5	3860.3	3876.4	3892.5	3914.0
3640.2	5°	3675.1	3790.5	3852.2	3981.1	4067.0	4029.4	4077.7	4064.3	4045.5	4042.8
3723.4	7.5°	3771.7	3919.3	4104.6	4139.5	4177.1	4083.1	4002.6	3892.5	3865.7	3771.7
3793.2	10°	3943.5	4064.3	4289.8	4303.2	4136.8	3895.2	3715.3	3487.1	3484.5	3347.5
3900.6	12.5°	4107.3	4244.2	4426.7	4348.9	3951.6	3621.4	3328.8	3079.1	2974.4	2904.6
3965.0	15°	4209.3	4434.8	4531.4	4195.8	3626.7	3181.1	2802.6	2534.2	2426.8	2375.8
4045.5	17.5°	4303.2	4617.3	4574.4	3927.4	3226.7	2727.4	2276.4	2042.9	2013.4	1975.8
4174.4	20°	4432.1	4684.4	4421.3	3578.4	2773.1	2142.2	1855.0	1742.2	1769.1	1785.2
4187.8	22.5°	4552.9	4719.3	4228.1	3197.2	2190.5	1696.6	1554.3	1578.5	1618.7	1672.4
4220.0	25°	4606.6	4775.7	3967.7	2671.1	1667.1	1428.1	1395.9	1436.2	1503.3	1506.0
4265.6	27.5°	4641.5	4735.4	3653.6	2158.3	1318.1	1248.3	1296.6	1326.1	1334.2	1366.4
4362.3	30°	4703.2	4652.2	3256.3	1543.6	1106.0	1108.7	1170.4	1170.4	1170.4	1194.6
4458.9	32.5°	4810.6	4595.8	2791.9	1127.5	953.0	1038.9	1022.8	1017.4	1006.7	977.2
4582.4	35°	4877.7	4442.8	2204.0	834.9	856.3	953.0	947.6	864.4	724.8	655.0
4896.5	37.5°	5017.3	4365.0	1621.4	644.3	800.0	910.0	880.5	679.2	526.2	459.0
5285.7	40°	5318.0	4314.0	1122.1	563.7	762.4	888.6	786.6	579.8	402.7	284.6
5887.1	42.5°	5685.7	4316.6	762.4	531.5	765.1	934.2	757.0	496.6	284.6	228.2
6689.7	45°	6179.7	4276.4	523.5	531.5	813.4	1009.4	775.8	451.0	276.5	289.9
7696.4	47.5°	6711.2	4311.3	389.2	483.2	821.5	1012.0	708.7	442.9	265.8	335.6
8791.7	50°	7331.3	4346.2	322.1	445.6	824.1	979.8	652.3	432.2	276.5	354.4
10048.0	52.5°	7970.2	4456.2	273.8	421.5	856.3	966.4	652.3	448.3	276.5	308.7
11648.0	55°	8923.2	4738.1	394.6	526.2	974.5	1055.0	802.7	628.2	386.6	397.3
13180.8	57.5°	9975.5	5028.0	440.3	553.0	1001.3	950.3	864.4	692.6	408.0	410.7
14372.7	60°	10668.1	5038.8	437.6	539.6	936.9	821.5	845.6	730.2	416.1	351.7
15111.0	62.5°	10944.6	4711.3	456.4	539.6	872.5	767.8	867.1	786.6	429.5	440.3
15320.3	65°	10630.6	4034.8	440.3	483.2	767.8	687.2	872.5	797.3	469.8	442.9
14944.5	67°	10139.3	3476.4	448.3	459.0	714.1	652.3	918.1	837.6	544.9	531.5
14748.5	67.5°	9999.7	3328.8	445.6	445.6	695.3	641.6	928.8	837.6	555.7	550.3
13017.1	70°	8813.2	2697.9	456.4	440.3	614.7	609.4	987.9	883.2	638.9	644.3
9562.1	72.5°	6708.5	2045.6	453.7	440.3	534.2	582.5	995.9	912.7	695.3	644.3
5355.5	75°	3812.0	1224.1	400.0	383.9	421.5	507.4	931.5	869.8	676.5	577.2
2139.5	77.5°	1575.8	630.9	367.8	346.3	349.0	413.4	775.8	810.7	644.3	491.3
714.1	80°	587.9	378.5	295.3	276.5	268.4	303.3	553.0	647.0	550.3	402.7
314.1	82.5°	306.0	236.2	201.3	201.3	182.5	193.3	298.0	429.5	416.1	276.5
126.2	85°	155.7	134.2	115.4	112.7	102.0	91.3	150.3	255.0	238.9	153.0
56.4	87.5°	83.2	75.2	48.3	45.6	37.6	24.2	26.8	51.0	83.2	67.1
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>
3562.3
3935.5
4067.0
3803.9
3342.2
2888.5
2365.0
1994.6
1766.4
1642.9
1532.8
1395.9
1221.4
961.0
687.2
456.4
276.5
222.8
295.3
373.1
410.7
316.8
418.8
397.3
362.4
445.6
434.9
523.5
539.6
596.0
571.8
515.4
464.4
367.8
217.4
126.2
48.3
0.0

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