

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: P477787

Luminaire Tested: **IFLD-M-SA4B-740-U-T3R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P477787  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-740-U-T3R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

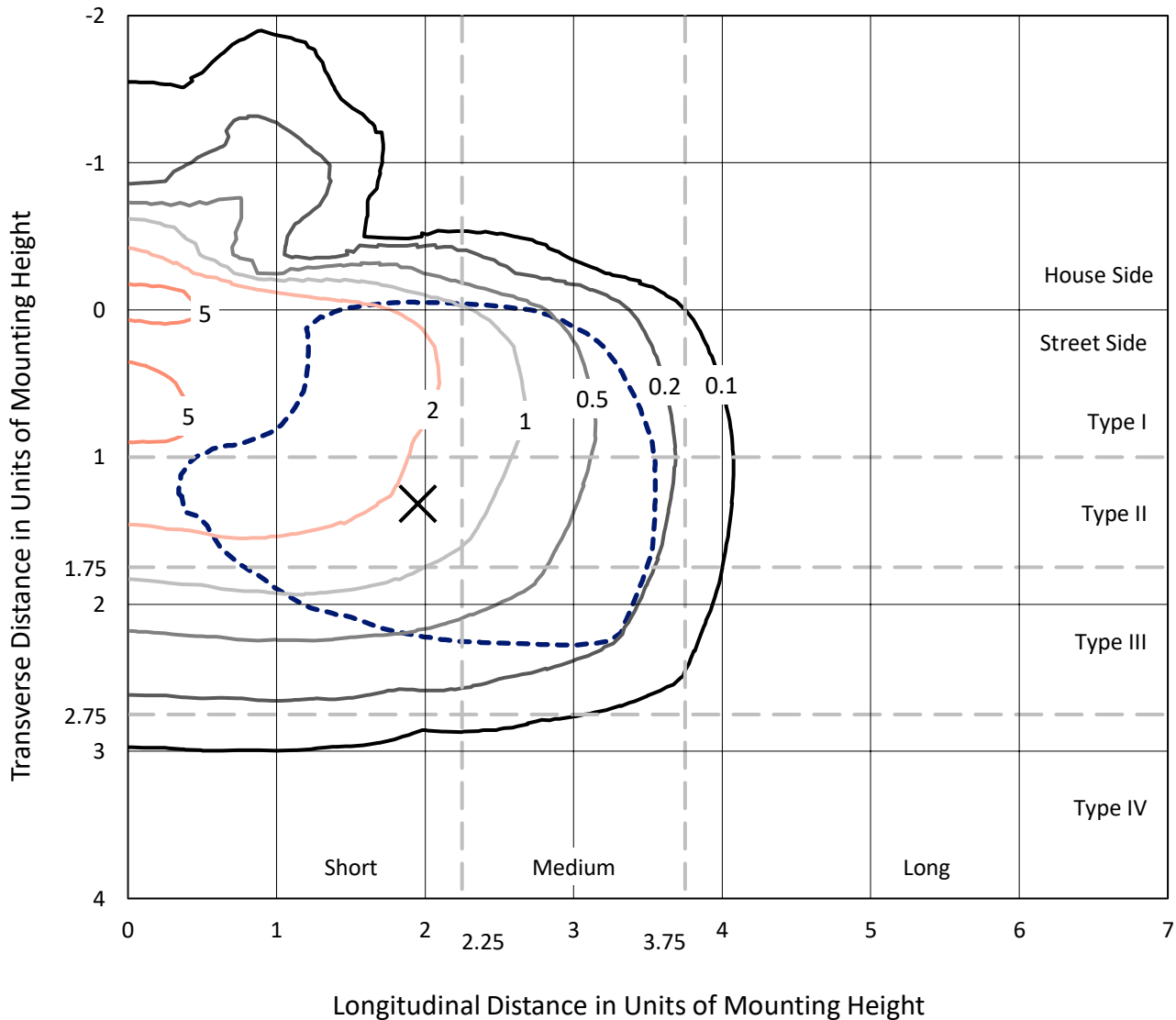
Lumens per Lamp: N/A  
Luminaire Lumens: 22435.1 lumens  
Efficiency: N/A  
Efficacy: 135.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 166.1  
Input Voltage (V): 120  
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

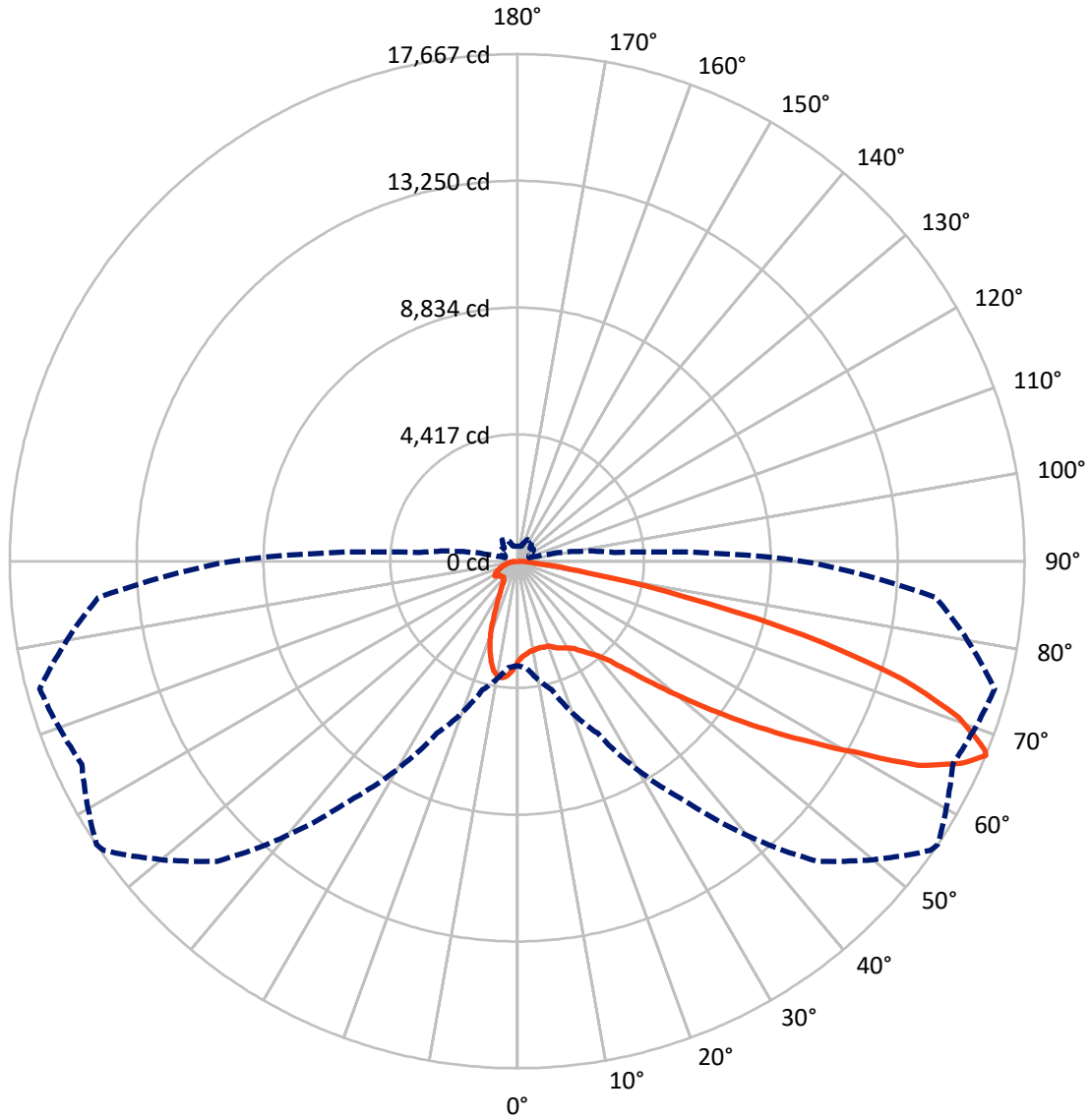
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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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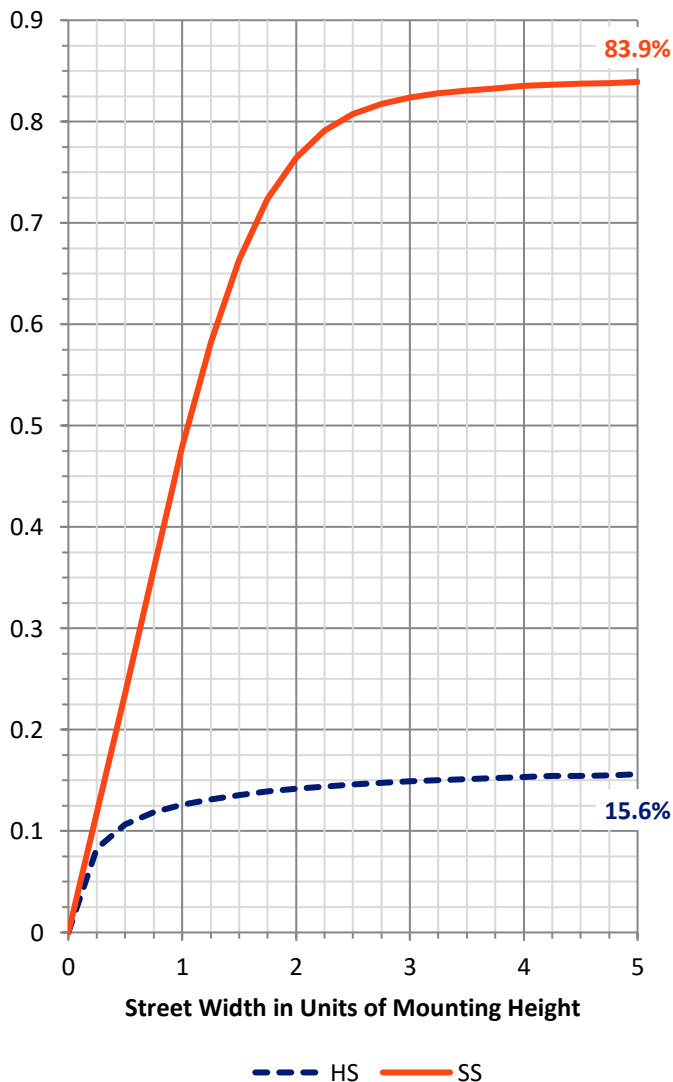
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3551.7	0.0	3551.7
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	18883.4	0.0	18883.4
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	22435.1	0.0	22435.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	336.3	1.5
10°-20°	917.5	4.1
20°-30°	1438.9	6.4
30°-40°	2054.0	9.2
40°-50°	3100.1	13.8
50°-60°	4934.8	22.0
60°-70°	6308.7	28.1
70°-80°	3075.9	13.7
80°-90°	269.1	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°	22435.1	100.0
0°-180°	22435.1	100.0

**Coefficient of Utilization**



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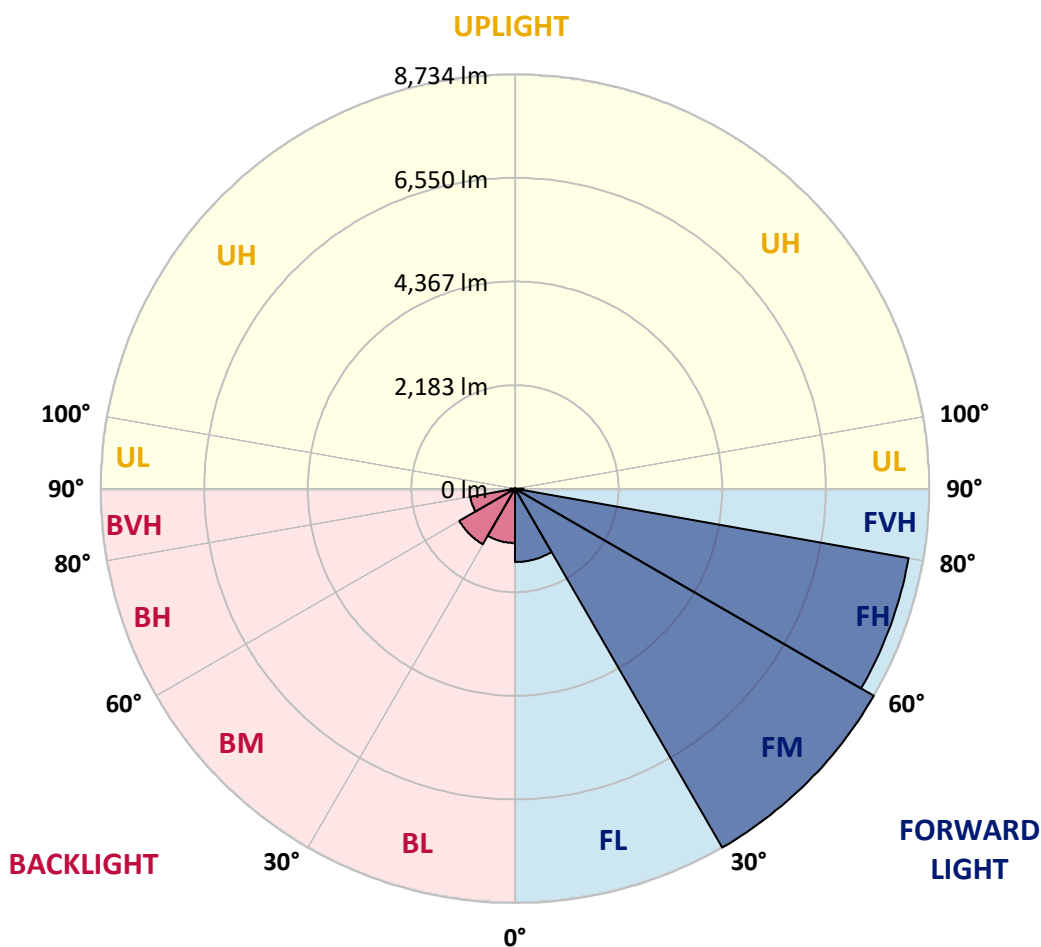
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1546.0	6.9			
FM (30°-60°)	8733.8	38.9			
FH (60°-80°)	8424.9	37.6			G4/12000
FVH (80°-90°)	178.7	0.8			G2/225
BL (0°-30°)	1146.6	5.1	B3/2500		
BM (30°-60°)	1355.0	6.0	B2/2500		
BH (60°-80°)	959.7	4.3	B2/1000		G2/1000
BVH (80°-90°)	90.4	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°	3490.8	3490.8	3490.8	3490.8	3490.8	3490.8	3490.8	3490.8	3490.8	3490.8
2.5°	3206.7	3193.6	3209.4	3193.6	3264.6	3306.7	3319.9	3338.3	3404.0	3467.2
5°	3072.6	3014.7	3077.8	3098.9	3104.1	3175.2	3248.8	3262.0	3296.2	3398.8
7.5°	2849.0	2914.7	2891.1	2954.2	3020.0	3091.0	3212.0	3177.8	3304.1	3401.4
10°	2801.6	2806.9	2833.2	2856.9	2914.7	3006.8	3175.2	3154.1	3283.0	3490.8
12.5°	2849.0	2849.0	2841.1	2822.7	2888.4	2977.9	3112.0	3122.6	3325.1	3517.2
15°	3014.7	3046.3	2962.1	2975.2	2948.9	2977.9	3096.3	3119.9	3340.9	3538.2
17.5°	3419.8	3409.3	3309.3	3169.9	3054.2	3035.7	3117.3	3143.6	3325.1	3598.7
20°	3814.4	3793.4	3619.7	3475.1	3246.2	3138.3	3151.5	3154.1	3351.4	3638.2
22.5°	4253.7	4309.0	4119.6	3824.9	3540.8	3272.5	3219.9	3262.0	3411.9	3659.2
25°	4943.0	4824.6	4661.5	4274.8	3817.0	3480.3	3333.0	3354.1	3469.8	3711.8
27.5°	5440.1	5392.8	5137.6	4824.6	4203.7	3643.4	3393.5	3433.0	3575.0	3709.2
30°	5918.9	5918.9	5763.7	5295.5	4611.5	3917.0	3522.4	3504.0	3525.0	3703.9
32.5°	6479.2	6403.0	6179.3	5868.9	5124.5	4166.9	3625.0	3630.3	3630.3	3801.3
35°	6773.9	6897.5	6747.6	6242.5	5516.4	4582.6	3872.3	3832.8	3803.9	3909.1
37.5°	7205.3	7278.9	7121.1	6823.9	6003.1	4919.3	4090.6	4059.1	3890.7	3993.3
40°	7465.7	7452.6	7447.3	7310.5	6647.6	5316.5	4411.6	4330.0	4103.8	4290.6
42.5°	7613.0	7586.7	7910.3	7826.1	7255.3	5900.5	4814.1	4769.3	4519.4	4819.3
45°	7778.8	7973.4	8239.1	8475.9	7962.9	6721.3	5495.4	5432.2	5208.6	5590.1
47.5°	7923.5	8162.8	8502.2	8754.7	8602.2	7613.0	6337.2	6353.0	6205.7	6597.6
50°	8165.5	8189.1	8649.5	9159.8	9278.2	8436.4	7468.4	7442.0	7376.3	7926.1
52.5°	8091.8	8162.8	8744.2	9396.6	9591.3	9307.2	8683.7	8762.6	8675.8	9367.7
55°	6892.2	7105.3	8686.3	9646.5	10333.1	10291.0	10246.3	10193.7	10188.4	10988.1
57.5°	6347.7	6521.3	7652.5	9922.7	11127.6	11438.0	11727.3	11785.2	11782.6	12748.0
60°	5989.9	6168.8	7234.2	9772.8	11803.6	12940.1	13495.1	13503.0	13487.2	14628.9
62.5°	5290.2	5463.8	6510.8	8952.0	11990.4	14326.4	15562.8	15665.4	14942.0	16249.4
65°	4448.4	4590.4	5513.8	7697.2	11493.2	15207.7	17117.5	16996.5	16167.8	17175.4
67°	3638.2	3732.9	4632.5	6608.1	10193.7	14784.1	17567.3	17667.3	16733.4	17214.8
67.5°	3406.7	3493.5	4343.2	6237.2	9699.1	14463.2	17583.1	17567.3	16744.0	17222.7
70°	2364.9	2401.8	2959.5	4290.6	7144.8	12219.3	16299.4	16336.2	16041.6	16288.9
72.5°	1567.9	1623.1	1978.2	2704.3	4211.6	8891.5	13624.0	14018.6	13831.8	13355.7
75°	1010.2	1041.7	1294.3	1609.9	2072.9	5064.0	10064.8	10327.8	9899.1	8260.2
77.5°	565.6	599.8	781.3	978.6	1010.2	2107.1	5653.2	5979.4	5066.6	3509.3
80°	352.5	397.2	589.3	581.4	481.4	773.4	2330.7	2496.5	2025.6	1207.5
82.5°	265.7	299.9	455.1	407.7	271.0	344.6	873.4	936.5	741.8	465.6
85°	181.5	228.9	328.8	252.5	142.1	165.7	347.2	373.5	339.4	226.2
87.5°	65.8	97.3	171.0	126.3	63.1	50.0	113.1	126.3	121.0	102.6
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°
3490.8	0°	3490.8	3490.8	3490.8	3490.8	3490.8	3490.8	3490.8	3490.8	3490.8	3490.8
3522.4	2.5°	3572.4	3609.2	3627.6	3735.5	3780.2	3772.3	3782.8	3798.6	3814.4	3835.5
3567.1	5°	3601.3	3714.4	3775.0	3901.2	3985.4	3948.6	3995.9	3982.8	3964.4	3961.7
3648.7	7.5°	3696.0	3840.7	4022.2	4056.4	4093.3	4001.2	3922.3	3814.4	3788.1	3696.0
3717.1	10°	3864.4	3982.8	4203.7	4216.9	4053.8	3817.0	3640.8	3417.2	3414.6	3280.4
3822.3	12.5°	4024.9	4159.0	4337.9	4261.6	3872.3	3548.7	3262.0	3017.3	2914.7	2846.3
3885.4	15°	4124.8	4345.8	4440.5	4111.7	3554.0	3117.3	2746.4	2483.3	2378.1	2328.1
3964.4	17.5°	4216.9	4524.7	4482.6	3848.6	3162.0	2672.7	2230.8	2001.9	1973.0	1936.1
4090.6	20°	4343.2	4590.4	4332.6	3506.6	2717.4	2099.2	1817.8	1707.3	1733.6	1749.4
4103.8	22.5°	4461.5	4624.6	4143.2	3133.1	2146.6	1662.6	1523.1	1546.8	1586.3	1638.9
4135.3	25°	4514.2	4679.9	3888.1	2617.5	1633.6	1399.5	1367.9	1407.4	1473.2	1475.8
4180.1	27.5°	4548.4	4640.4	3580.3	2115.0	1291.6	1223.2	1270.6	1299.5	1307.4	1339.0
4274.8	30°	4608.9	4558.9	3191.0	1512.6	1083.8	1086.4	1147.0	1147.0	1147.0	1170.6
4369.5	32.5°	4714.1	4503.6	2735.9	1104.9	933.9	1018.1	1002.3	997.0	986.5	957.5
4490.5	35°	4779.9	4353.7	2159.7	818.1	839.2	933.9	928.6	847.1	710.3	641.9
4798.3	37.5°	4916.6	4277.4	1588.9	631.4	783.9	891.8	862.8	665.5	515.6	449.8
5179.7	40°	5211.3	4227.4	1099.6	552.4	747.1	870.7	770.8	568.2	394.6	278.8
5769.0	42.5°	5571.7	4230.1	747.1	520.9	749.7	915.5	741.8	486.7	278.8	223.6
6555.5	45°	6055.7	4190.6	513.0	520.9	797.1	989.1	760.3	441.9	271.0	284.1
7542.0	47.5°	6576.6	4224.8	381.4	473.5	805.0	991.7	694.5	434.1	260.4	328.8
8615.3	50°	7184.2	4259.0	315.7	436.7	807.6	960.2	639.2	423.5	271.0	347.2
9846.4	52.5°	7810.3	4366.8	268.3	413.0	839.2	947.0	639.2	439.3	271.0	302.5
11414.3	55°	8744.2	4643.1	386.7	515.6	954.9	1033.8	786.6	615.6	378.8	389.3
12916.4	57.5°	9775.4	4927.2	431.4	541.9	981.2	931.2	847.1	678.7	399.9	402.5
14084.4	60°	10454.1	4937.7	428.8	528.8	918.1	805.0	828.6	715.5	407.7	344.6
14807.8	62.5°	10725.1	4616.8	447.2	528.8	855.0	752.4	849.7	770.8	420.9	431.4
15013.0	65°	10417.3	3953.8	431.4	473.5	752.4	673.4	855.0	781.3	460.4	434.1
14644.7	67°	9935.9	3406.7	439.3	449.8	699.7	639.2	899.7	820.8	534.0	520.9
14452.7	67.5°	9799.1	3262.0	436.7	436.7	681.3	628.7	910.2	820.8	544.5	539.3
12755.9	70°	8636.4	2643.8	447.2	431.4	602.4	597.2	968.1	865.5	626.1	631.4
9370.3	72.5°	6573.9	2004.5	444.6	431.4	523.5	570.8	976.0	894.4	681.3	631.4
5248.1	75°	3735.5	1199.6	392.0	376.2	413.0	497.2	912.8	852.3	662.9	565.6
2096.6	77.5°	1544.2	618.2	360.4	339.4	342.0	405.1	760.3	794.4	631.4	481.4
699.7	80°	576.1	370.9	289.4	271.0	263.1	297.3	541.9	634.0	539.3	394.6
307.8	82.5°	299.9	231.5	197.3	197.3	178.9	189.4	292.0	420.9	407.7	271.0
123.6	85°	152.6	131.5	113.1	110.5	100.0	89.4	147.3	249.9	234.1	149.9
55.2	87.5°	81.5	73.7	47.4	44.7	36.8	23.7	26.3	50.0	81.5	65.8
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>
3490.8
3856.5
3985.4
3727.6
3275.1
2830.6
2317.6
1954.6
1731.0
1609.9
1502.1
1367.9
1196.9
941.8
673.4
447.2
271.0
218.3
289.4
365.7
402.5
310.4
410.4
389.3
355.1
436.7
426.2
513.0
528.8
584.0
560.3
505.1
455.1
360.4
213.1
123.6
47.4
0.0

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