

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: P477635

Luminaire Tested: **IFLD-L-SA7A-722-U-T3R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P477635  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-722-U-T3R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens  
Light Source: (112) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

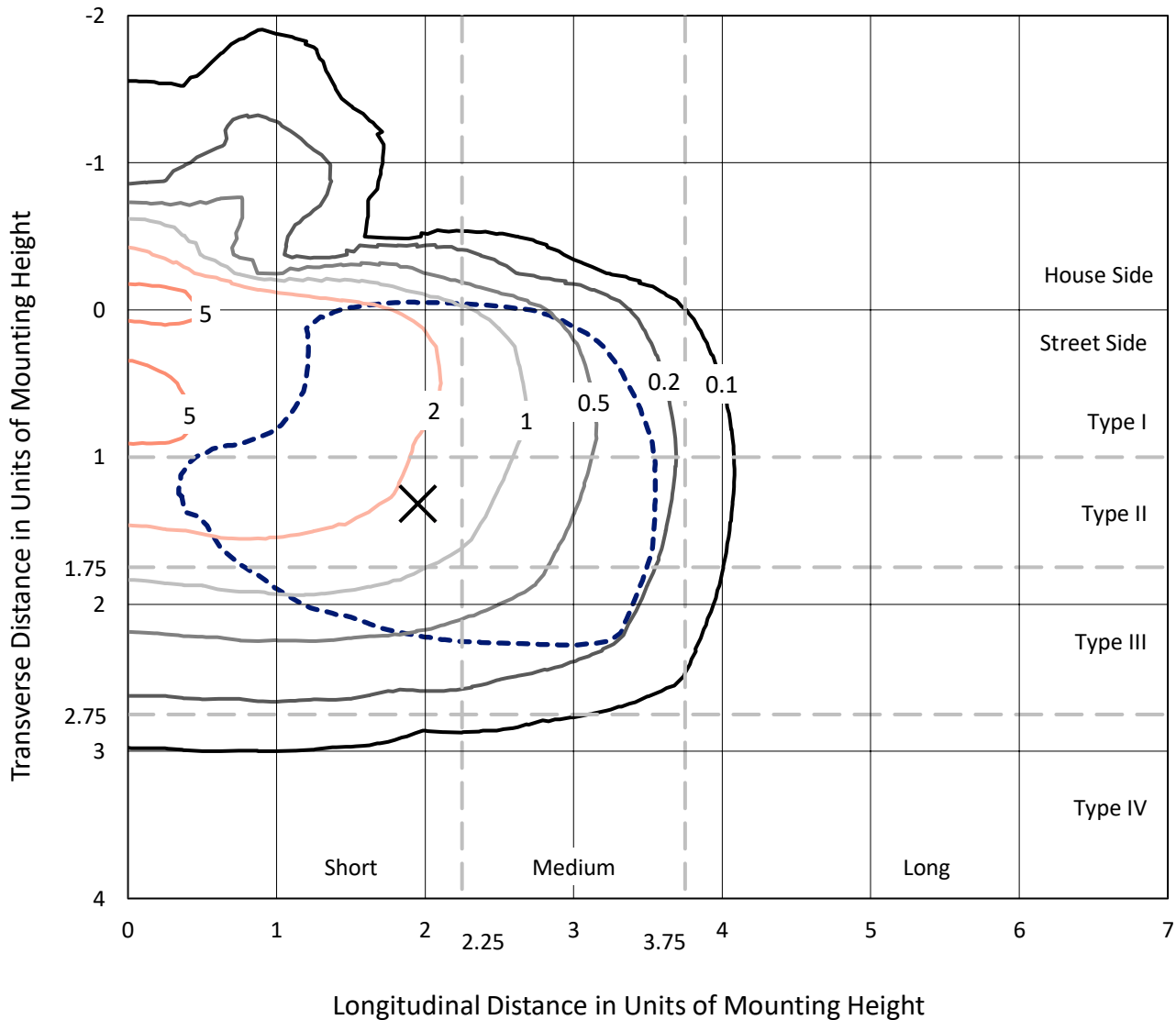
Lumens per Lamp: N/A  
Luminaire Lumens: 22647.8 lumens  
Efficiency: N/A  
Efficacy: 104.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 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

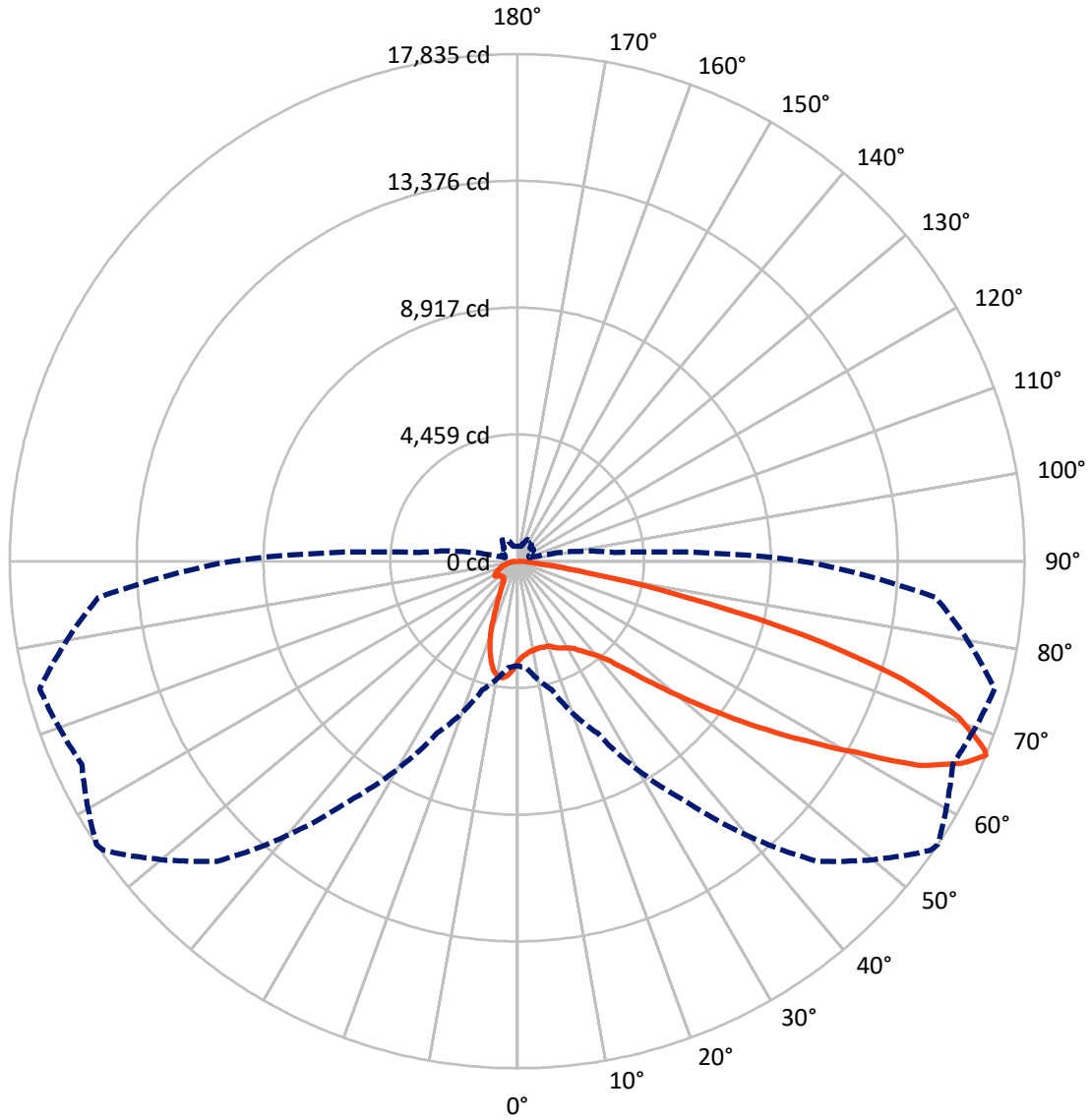
✕ Max cd  
 - - - 1/2 Max cd



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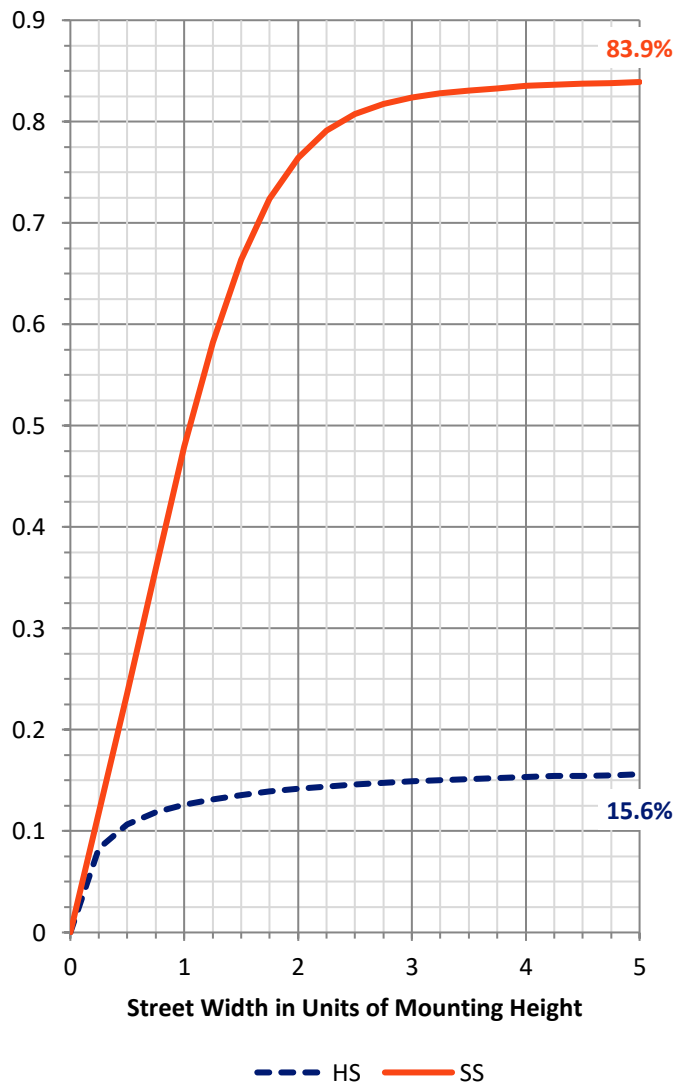
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3585.4	0.0	3585.4
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	19062.4	0.0	19062.4
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	22647.8	0.0	22647.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	339.5	1.5
10°-20°	926.2	4.1
20°-30°	1452.5	6.4
30°-40°	2073.5	9.2
40°-50°	3129.4	13.8
50°-60°	4981.5	22.0
60°-70°	6368.5	28.1
70°-80°	3105.1	13.7
80°-90°	271.6	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°	22647.8	100.0
0°-180°	22647.8	100.0

**Coefficient of Utilization**

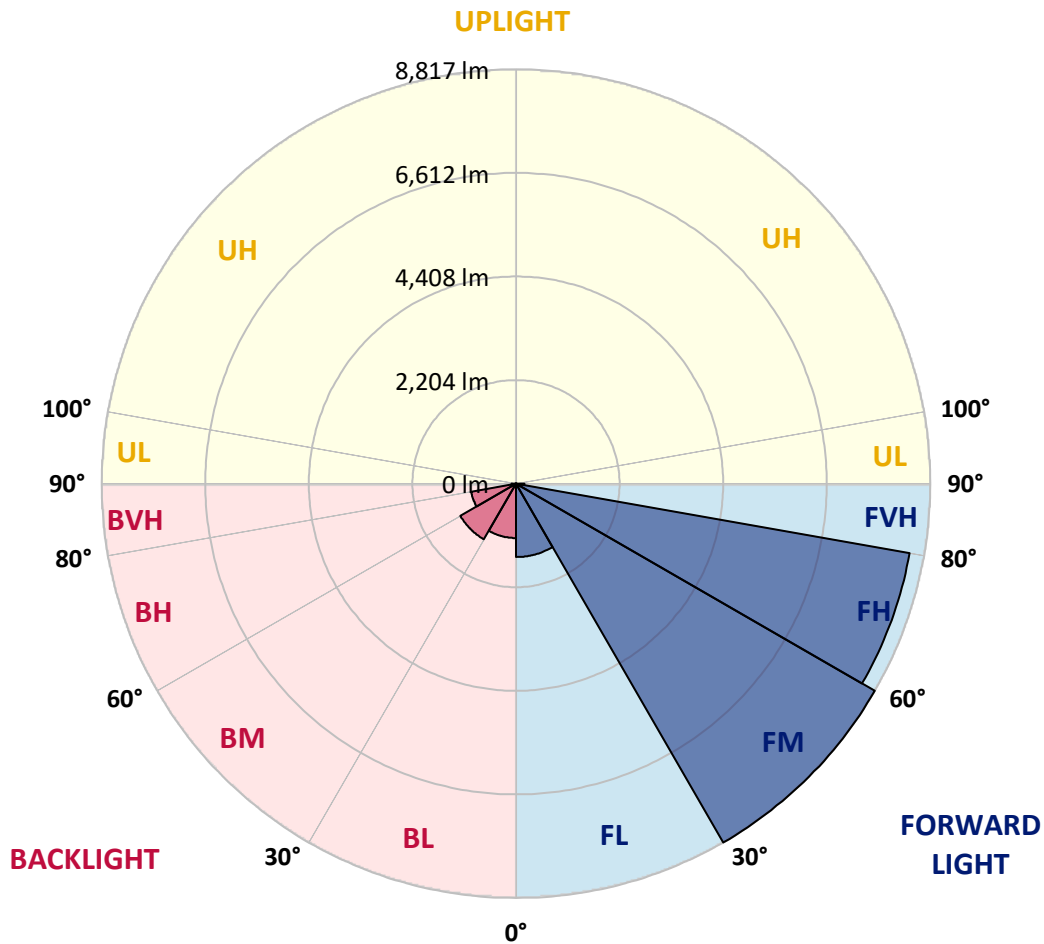


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1560.7	6.9			
FM (30°-60°)	8816.6	38.9			
FH (60°-80°)	8504.7	37.6			G4/12000
FVH (80°-90°)	180.4	0.8			G2/225
BL (0°-30°)	1157.5	5.1	B3/2500		
BM (30°-60°)	1367.9	6.0	B2/2500		
BH (60°-80°)	968.8	4.3	B2/1000		G2/1000
BVH (80°-90°)	91.2	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°	3523.9	3523.9	3523.9	3523.9	3523.9	3523.9	3523.9	3523.9	3523.9	3523.9
2.5°	3237.1	3223.9	3239.8	3223.9	3295.6	3338.0	3351.3	3369.9	3436.3	3500.0
5°	3101.7	3043.3	3107.0	3128.3	3133.6	3205.3	3279.6	3292.9	3327.4	3431.0
7.5°	2876.0	2942.4	2918.5	2982.2	3048.6	3120.3	3242.4	3207.9	3335.4	3433.6
10°	2828.2	2833.5	2860.0	2883.9	2942.4	3035.3	3205.3	3184.0	3314.1	3523.9
12.5°	2876.0	2876.0	2868.0	2849.4	2915.8	3006.1	3141.5	3152.2	3356.6	3550.5
15°	3043.3	3075.1	2990.2	3003.4	2976.9	3006.1	3125.6	3149.5	3372.6	3571.7
17.5°	3452.2	3441.6	3340.7	3200.0	3083.1	3064.5	3146.8	3173.4	3356.6	3632.8
20°	3850.6	3829.3	3654.1	3508.0	3277.0	3168.1	3181.4	3184.0	3383.2	3672.6
22.5°	4294.1	4349.8	4158.6	3861.2	3574.4	3303.5	3250.4	3292.9	3444.3	3693.9
25°	4989.8	4870.3	4705.7	4315.3	3853.2	3513.3	3364.6	3385.8	3502.7	3747.0
27.5°	5491.7	5443.9	5186.3	4870.3	4243.6	3678.0	3425.7	3465.5	3608.9	3744.4
30°	5975.0	5975.0	5818.3	5345.7	4655.2	3954.1	3555.8	3537.2	3558.5	3739.0
32.5°	6540.7	6463.7	6237.9	5924.6	5173.0	4206.4	3659.4	3664.7	3664.7	3837.3
35°	6838.1	6962.9	6811.5	6301.7	5568.7	4626.0	3909.0	3869.2	3840.0	3946.2
37.5°	7273.6	7348.0	7188.6	6888.5	6060.0	4965.9	4129.4	4097.5	3927.6	4031.2
40°	7536.5	7523.2	7517.9	7379.8	6710.6	5366.9	4453.4	4371.1	4142.7	4331.2
42.5°	7685.2	7658.7	7985.3	7900.3	7324.1	5956.4	4859.7	4814.5	4562.3	4865.0
45°	7852.5	8049.0	8317.2	8556.2	8038.4	6785.0	5547.5	5483.7	5258.0	5643.1
47.5°	7998.6	8240.2	8582.8	8837.7	8683.7	7685.2	6397.3	6413.2	6264.5	6660.2
50°	8242.9	8266.8	8731.5	9246.7	9366.2	8516.4	7539.2	7512.6	7446.2	8001.2
52.5°	8168.5	8240.2	8827.1	9485.7	9682.2	9395.4	8766.0	8845.7	8758.1	9456.5
55°	6957.6	7172.7	8768.7	9738.0	10431.1	10388.6	10343.4	10290.3	10285.0	11092.3
57.5°	6407.9	6583.2	7725.0	10016.8	11233.1	11546.4	11838.5	11896.9	11894.3	12868.9
60°	6046.7	6227.3	7302.8	9865.4	11915.5	13062.7	13623.1	13631.0	13615.1	14767.6
62.5°	5340.3	5515.6	6572.5	9036.9	12104.1	14462.2	15710.3	15813.9	15083.6	16403.4
65°	4490.6	4634.0	5566.1	7770.2	11602.2	15351.8	17279.8	17157.6	16321.1	17338.2
67°	3672.6	3768.3	4676.5	6670.8	10290.3	14924.3	17733.9	17834.8	16892.1	17378.0
67.5°	3439.0	3526.6	4384.3	6296.4	9791.1	14600.3	17749.8	17733.9	16902.7	17386.0
70°	2387.4	2424.5	2987.5	4331.2	7212.5	12335.1	16453.9	16491.1	16193.7	16443.3
72.5°	1582.7	1638.5	1997.0	2729.9	4251.6	8975.8	13753.2	14151.5	13963.0	13482.3
75°	1019.7	1051.6	1306.5	1625.2	2092.6	5112.0	10160.2	10425.8	9992.9	8338.5
77.5°	570.9	605.5	788.7	987.9	1019.7	2127.1	5706.8	6036.1	5114.6	3542.5
80°	355.8	401.0	594.8	586.9	486.0	780.7	2352.8	2520.1	2044.8	1218.9
82.5°	268.2	302.7	459.4	411.6	273.5	347.9	881.6	945.4	748.9	470.0
85°	183.2	231.0	331.9	254.9	143.4	167.3	350.5	377.1	342.6	228.4
87.5°	66.4	98.3	172.6	127.5	63.7	50.5	114.2	127.5	122.2	103.6
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°
3523.9	0°	3523.9	3523.9	3523.9	3523.9	3523.9	3523.9	3523.9	3523.9	3523.9	3523.9
3555.8	2.5°	3606.3	3643.4	3662.0	3770.9	3816.1	3808.1	3818.7	3834.6	3850.6	3871.8
3600.9	5°	3635.5	3749.7	3810.7	3938.2	4023.2	3986.0	4033.8	4020.5	4001.9	3999.3
3683.3	7.5°	3731.1	3877.1	4060.4	4094.9	4132.1	4039.1	3959.5	3850.6	3824.0	3731.1
3752.3	10°	3901.0	4020.5	4243.6	4256.9	4092.2	3853.2	3675.3	3449.6	3446.9	3311.5
3858.5	12.5°	4063.0	4198.5	4379.0	4302.0	3909.0	3582.4	3292.9	3045.9	2942.4	2873.3
3922.3	15°	4163.9	4387.0	4482.6	4150.7	3587.7	3146.8	2772.4	2506.9	2400.6	2350.2
4001.9	17.5°	4256.9	4567.6	4525.1	3885.1	3192.0	2698.1	2251.9	2020.9	1991.7	1954.5
4129.4	20°	4384.3	4634.0	4373.7	3539.9	2743.2	2119.1	1835.0	1723.5	1750.0	1766.0
4142.7	22.5°	4503.8	4668.5	4182.5	3162.8	2166.9	1678.3	1537.6	1561.5	1601.3	1654.4
4174.6	25°	4557.0	4724.3	3924.9	2642.3	1649.1	1412.8	1380.9	1420.7	1487.1	1489.8
4219.7	27.5°	4591.5	4684.4	3614.2	2135.1	1303.9	1234.8	1282.6	1311.9	1319.8	1351.7
4315.3	30°	4652.6	4602.1	3221.2	1527.0	1094.1	1096.7	1157.8	1157.8	1157.8	1181.7
4410.9	32.5°	4758.8	4546.3	2761.8	1115.3	942.7	1027.7	1011.8	1006.5	995.8	966.6
4533.1	35°	4825.2	4395.0	2180.2	825.9	847.1	942.7	937.4	855.1	717.0	648.0
4843.8	37.5°	4963.3	4318.0	1604.0	637.3	791.4	900.2	871.0	671.9	520.5	454.1
5228.8	40°	5260.7	4267.5	1110.0	557.7	754.2	879.0	778.1	573.6	398.3	281.5
5823.7	42.5°	5624.5	4270.2	754.2	525.8	756.8	924.1	748.9	491.3	281.5	225.7
6617.7	45°	6113.1	4230.3	517.8	525.8	804.6	998.5	767.5	446.1	273.5	286.8
7613.5	47.5°	6638.9	4264.8	385.1	478.0	812.6	1001.1	701.1	438.2	262.9	331.9
8697.0	50°	7252.4	4299.4	318.7	440.8	815.3	969.3	645.3	427.5	273.5	350.5
9939.8	52.5°	7884.4	4408.2	270.9	416.9	847.1	956.0	645.3	443.5	273.5	305.4
11522.5	55°	8827.1	4687.1	390.4	520.5	964.0	1043.6	794.0	621.4	382.4	393.0
13038.8	57.5°	9868.1	4973.9	435.5	547.0	990.5	940.1	855.1	685.1	403.6	406.3
14217.9	60°	10553.2	4984.5	432.9	533.8	926.8	812.6	836.5	722.3	411.6	347.9
14948.2	62.5°	10826.7	4660.5	451.4	533.8	863.1	759.5	857.7	778.1	424.9	435.5
15155.3	65°	10516.0	3991.3	435.5	478.0	759.5	679.8	863.1	788.7	464.7	438.2
14783.5	67°	10030.1	3439.0	443.5	454.1	706.4	645.3	908.2	828.5	539.1	525.8
14589.7	67.5°	9892.0	3292.9	440.8	440.8	687.8	634.7	918.8	828.5	549.7	544.4
12876.8	70°	8718.2	2668.8	451.4	435.5	608.1	602.8	977.2	873.7	632.0	637.3
9459.1	72.5°	6636.3	2023.5	448.8	435.5	528.5	576.3	985.2	902.9	687.8	637.3
5297.9	75°	3770.9	1210.9	395.7	379.7	416.9	501.9	921.5	860.4	669.2	570.9
2116.5	77.5°	1558.8	624.1	363.8	342.6	345.2	409.0	767.5	802.0	637.3	486.0
706.4	80°	581.6	374.4	292.1	273.5	265.6	300.1	547.0	640.0	544.4	398.3
310.7	82.5°	302.7	233.7	199.2	199.2	180.6	191.2	294.8	424.9	411.6	273.5
124.8	85°	154.0	132.8	114.2	111.5	100.9	90.3	148.7	252.3	236.3	151.4
55.8	87.5°	82.3	74.4	47.8	45.1	37.2	23.9	26.6	50.5	82.3	66.4
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°
3523.9
3893.1
4023.2
3762.9
3306.2
2857.4
2339.6
1973.1
1747.4
1625.2
1516.3
1380.9
1208.3
950.7
679.8
451.4
273.5
220.4
292.1
369.1
406.3
313.4
414.3
393.0
358.5
440.8
430.2
517.8
533.8
589.5
565.6
509.9
459.4
363.8
215.1
124.8
47.8
0.0

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