

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: P477742

Luminaire Tested: **IFLD-S-SA6A-735-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477742
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-735-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

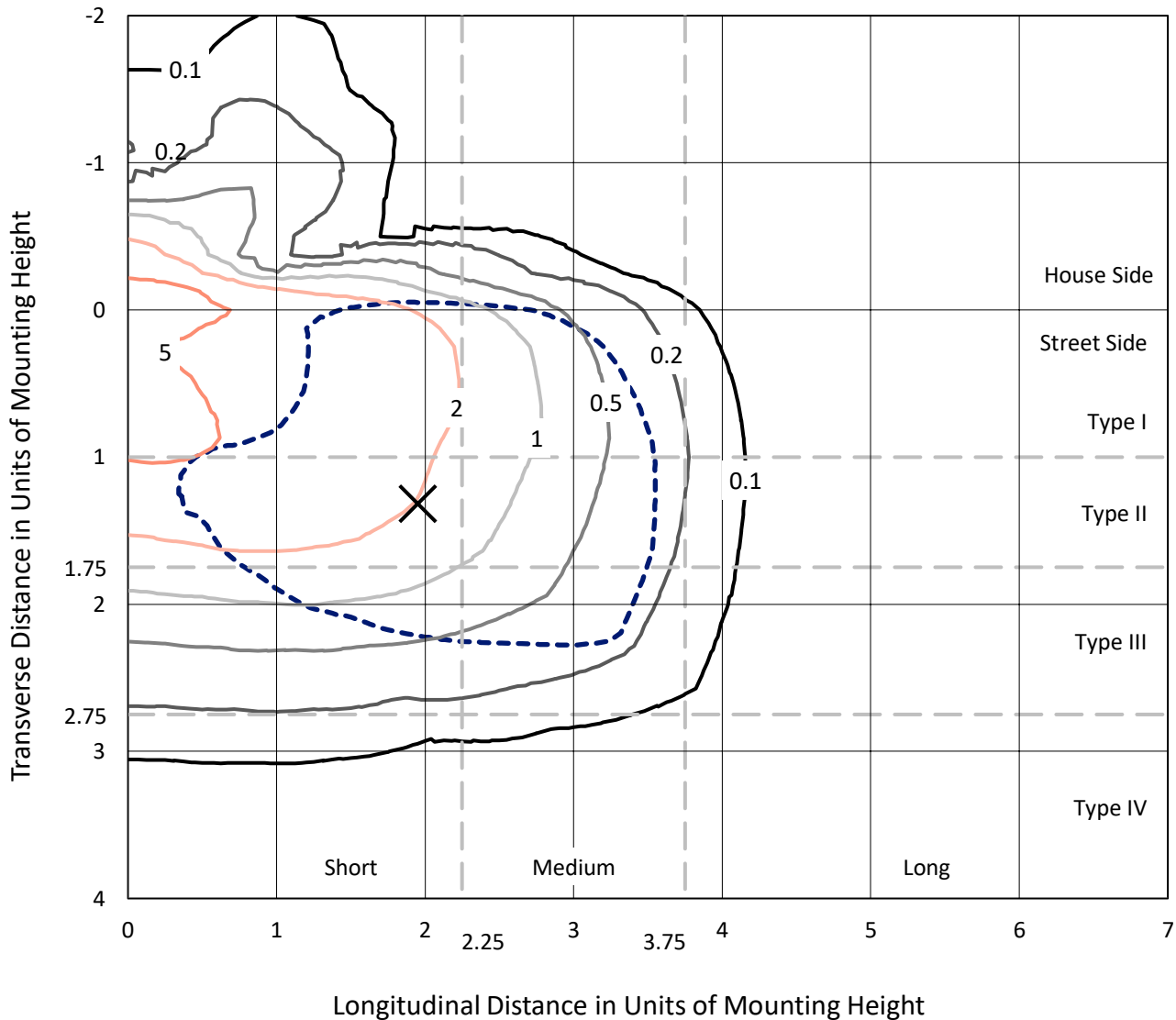
Lumens per Lamp: N/A
Luminaire Lumens: 26148.9 lumens
Efficiency: N/A
Efficacy: 137.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 189.6
Input Voltage (V): 120
Input Current (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

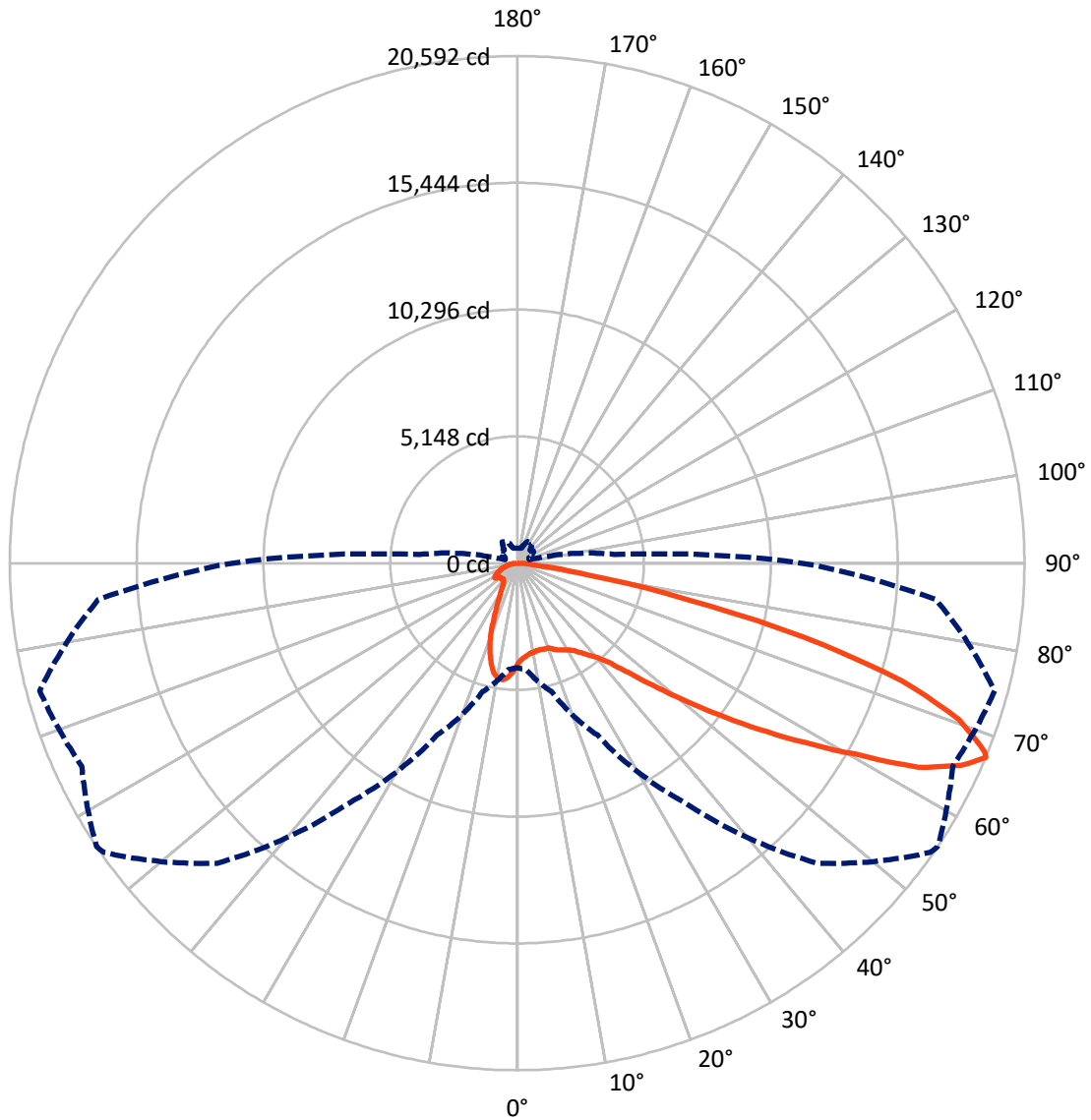
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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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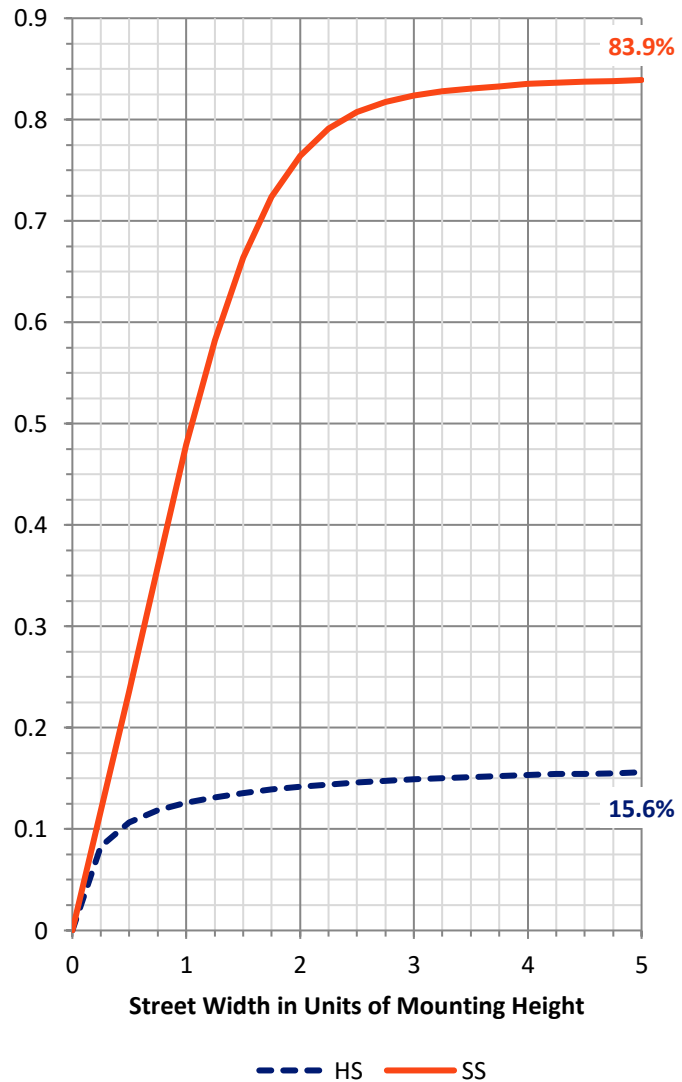
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4139.6	0.0	4139.6
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	22009.3	0.0	22009.3
	% Fixture	84.2	0.0	84.2
Total	Lumens	26148.9	0.0	26148.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.0	1.5
10°-20°	1069.3	4.1
20°-30°	1677.0	6.4
30°-40°	2394.0	9.2
40°-50°	3613.2	13.8
50°-60°	5751.6	22.0
60°-70°	7353.0	28.1
70°-80°	3585.1	13.7
80°-90°	313.6	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°	26148.9	100.0
0°-180°	26148.9	100.0

Coefficient of Utilization

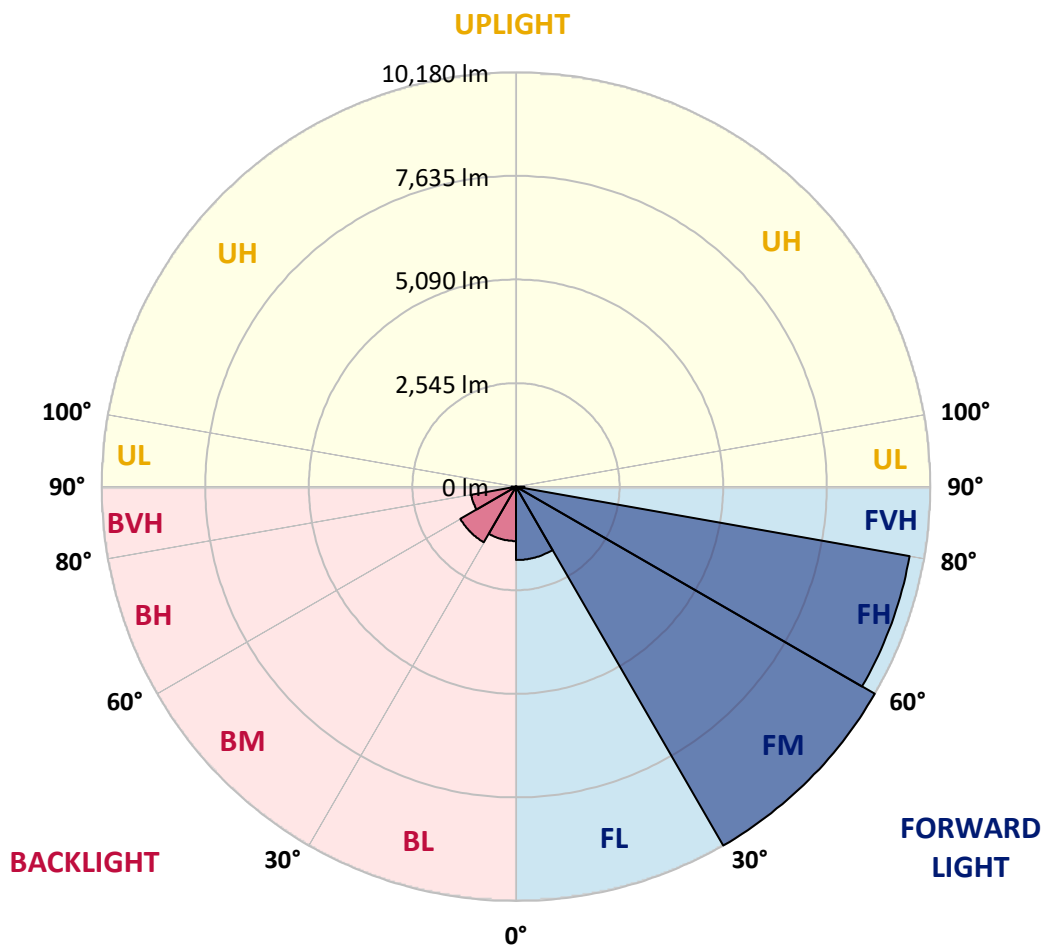


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1802.0	6.9			
FM (30°-60°)	10179.5	38.9			
FH (60°-80°)	9819.5	37.6			G4/12000
FVH (80°-90°)	208.3	0.8			G2/225
BL (0°-30°)	1336.4	5.1	B3/2500		
BM (30°-60°)	1579.3	6.0	B2/2500		
BH (60°-80°)	1118.6	4.3	B3/2500		G3/2500
BVH (80°-90°)	105.3	0.4			G2/225
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°	4068.7	4068.7	4068.7	4068.7	4068.7	4068.7	4068.7	4068.7	4068.7	4068.7
2.5°	3737.6	3722.2	3740.6	3722.2	3805.0	3854.1	3869.4	3890.9	3967.5	4041.1
5°	3581.2	3513.7	3587.3	3611.9	3618.0	3700.8	3786.6	3802.0	3841.8	3961.4
7.5°	3320.6	3397.2	3369.6	3443.2	3519.9	3602.7	3743.7	3703.8	3851.0	3964.5
10°	3265.4	3271.5	3302.2	3329.8	3397.2	3504.5	3700.8	3676.2	3826.5	4068.7
12.5°	3320.6	3320.6	3311.4	3289.9	3366.6	3470.8	3627.2	3639.4	3875.5	4099.4
15°	3513.7	3550.5	3452.4	3467.7	3437.1	3470.8	3608.8	3636.4	3893.9	4123.9
17.5°	3985.9	3973.7	3857.1	3694.6	3559.7	3538.3	3633.3	3664.0	3875.5	4194.4
20°	4445.8	4421.3	4218.9	4050.3	3783.6	3657.8	3673.2	3676.2	3906.2	4240.4
22.5°	4957.9	5022.3	4801.5	4458.1	4127.0	3814.2	3752.9	3802.0	3976.7	4264.9
25°	5761.2	5623.2	5433.1	4982.4	4448.9	4056.4	3884.7	3909.3	4044.2	4326.3
27.5°	6340.7	6285.5	5988.1	5623.2	4899.6	4246.5	3955.3	4001.2	4166.8	4323.2
30°	6898.7	6898.7	6717.8	6172.0	5374.9	4565.4	4105.5	4084.0	4108.6	4317.1
32.5°	7551.8	7462.9	7202.2	6840.4	5972.7	4856.7	4225.1	4231.2	4231.2	4430.5
35°	7895.2	8039.3	7864.5	7275.8	6429.6	5341.1	4513.3	4467.3	4433.6	4556.2
37.5°	8398.0	8483.9	8299.9	7953.4	6996.8	5733.6	4767.8	4731.0	4534.7	4654.3
40°	8701.6	8686.2	8680.1	8520.7	7748.0	6196.6	5141.8	5046.8	4783.1	5000.8
42.5°	8873.3	8842.6	9219.7	9121.6	8456.3	6877.2	5610.9	5558.8	5267.5	5617.1
45°	9066.4	9293.3	9603.0	9878.9	9281.1	7833.9	6405.1	6331.5	6070.9	6515.4
47.5°	9235.1	9514.1	9909.6	10203.9	10026.1	8873.3	7386.2	7404.6	7232.9	7689.8
50°	9517.1	9544.7	10081.3	10676.1	10814.1	9833.0	8704.6	8674.0	8597.3	9238.1
52.5°	9431.3	9514.1	10191.7	10952.1	11179.0	10847.8	10121.2	10213.1	10112.0	10918.3
55°	8033.2	8281.5	10124.2	11243.4	12043.6	11994.5	11942.4	11881.1	11875.0	12807.1
57.5°	7398.5	7600.8	8919.3	11565.3	12969.6	13331.4	13668.6	13736.1	13733.0	14858.3
60°	6981.5	7190.0	8431.7	11390.5	13757.5	15082.1	15729.0	15738.2	15719.8	17050.5
62.5°	6165.9	6368.3	7588.6	10433.9	13975.2	16697.9	18139.0	18258.6	17415.4	18939.2
65°	5184.8	5350.3	6426.5	8971.4	13395.8	17725.1	19951.1	19810.0	18844.2	20018.5
67°	4240.4	4350.8	5399.4	7702.0	11881.1	17231.4	20475.4	20591.9	19503.4	20064.5
67.5°	3970.6	4071.8	5062.1	7269.7	11304.7	16857.4	20493.8	20475.4	19515.7	20073.7
70°	2756.4	2799.3	3449.4	5000.8	8327.5	14242.0	18997.5	19040.4	18697.0	18985.2
72.5°	1827.4	1891.8	2305.7	3151.9	4908.8	10363.4	15879.3	16339.2	16121.5	15566.5
75°	1177.4	1214.2	1508.5	1876.4	2416.1	5902.2	11730.9	12037.5	11537.7	9627.5
77.5°	659.2	699.1	910.6	1140.6	1177.4	2455.9	6589.0	6969.2	5905.3	4090.2
80°	410.9	463.0	686.8	677.6	561.1	901.4	2716.6	2909.7	2360.9	1407.3
82.5°	309.7	349.5	530.4	475.2	315.8	401.7	1017.9	1091.5	864.6	542.7
85°	211.6	266.7	383.3	294.3	165.6	193.2	404.7	435.4	395.5	263.7
87.5°	76.7	113.4	199.3	147.2	73.6	58.3	131.8	147.2	141.0	119.6
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°
4068.7	0°	4068.7	4068.7	4068.7	4068.7	4068.7	4068.7	4068.7	4068.7	4068.7	4068.7
4105.5	2.5°	4163.8	4206.7	4228.1	4353.8	4406.0	4396.8	4409.0	4427.4	4445.8	4470.4
4157.6	5°	4197.5	4329.3	4399.8	4547.0	4645.1	4602.2	4657.4	4642.1	4620.6	4617.5
4252.7	7.5°	4307.9	4476.5	4688.1	4727.9	4770.8	4663.5	4571.5	4445.8	4415.2	4307.9
4332.4	10°	4504.1	4642.1	4899.6	4914.9	4724.8	4448.9	4243.5	3982.9	3979.8	3823.4
4455.0	12.5°	4691.1	4847.5	5056.0	4967.1	4513.3	4136.2	3802.0	3516.8	3397.2	3317.5
4528.6	15°	4807.6	5065.2	5175.6	4792.3	4142.3	3633.3	3201.0	2894.4	2771.7	2713.5
4620.6	17.5°	4914.9	5273.7	5224.6	4485.7	3685.4	3115.1	2600.0	2333.3	2299.6	2256.6
4767.8	20°	5062.1	5350.3	5049.9	4087.1	3167.3	2446.7	2118.7	1989.9	2020.6	2039.0
4783.1	22.5°	5200.1	5390.2	4829.1	3651.7	2501.9	1937.8	1775.3	1802.9	1848.9	1910.2
4819.9	25°	5261.4	5454.6	4531.7	3050.8	1904.0	1631.2	1594.4	1640.4	1717.0	1720.1
4872.0	27.5°	5301.3	5408.6	4172.9	2465.1	1505.5	1425.7	1480.9	1514.6	1523.8	1560.6
4982.4	30°	5371.8	5313.5	3719.2	1763.0	1263.2	1266.3	1336.8	1336.8	1336.8	1364.4
5092.8	32.5°	5494.4	5249.1	3188.7	1287.8	1088.5	1186.6	1168.2	1162.0	1149.8	1116.1
5233.8	35°	5571.1	5074.4	2517.3	953.6	978.1	1088.5	1082.3	987.3	827.8	748.1
5592.5	37.5°	5730.5	4985.5	1851.9	735.9	913.7	1039.4	1005.7	775.7	601.0	524.3
6037.1	40°	6073.9	4927.2	1281.6	643.9	870.8	1014.9	898.4	662.3	459.9	325.0
6723.9	42.5°	6494.0	4930.3	870.8	607.1	873.8	1067.0	864.6	567.2	325.0	260.6
7640.7	45°	7058.1	4884.3	597.9	607.1	929.0	1152.9	886.1	515.1	315.8	331.1
8790.5	47.5°	7665.2	4924.1	444.6	551.9	938.2	1155.9	809.4	505.9	303.5	383.3
10041.4	50°	8373.5	4964.0	367.9	509.0	941.3	1119.1	745.1	493.6	315.8	404.7
11476.4	52.5°	9103.2	5089.7	312.7	481.4	978.1	1103.8	745.1	512.0	315.8	352.6
13303.8	55°	10191.7	5411.7	450.7	601.0	1113.0	1205.0	916.8	717.5	441.5	453.8
15054.5	57.5°	11393.6	5742.8	502.8	631.6	1143.7	1085.4	987.3	791.1	466.0	469.1
16415.8	60°	12184.6	5755.1	499.8	616.3	1070.1	938.2	965.8	834.0	475.2	401.7
17259.0	62.5°	12500.5	5381.0	521.2	616.3	996.5	876.9	990.3	898.4	490.6	502.8
17498.2	65°	12141.7	4608.3	502.8	551.9	876.9	784.9	996.5	910.6	536.6	505.9
17068.9	67°	11580.6	3970.6	512.0	524.3	815.6	745.1	1048.6	956.6	622.4	607.1
16845.1	67.5°	11421.2	3802.0	509.0	509.0	794.1	732.8	1060.9	956.6	634.7	628.5
14867.5	70°	10066.0	3081.4	521.2	502.8	702.1	696.0	1128.3	1008.7	729.7	735.9
10921.4	72.5°	7662.2	2336.4	518.2	502.8	610.2	665.3	1137.5	1042.5	794.1	735.9
6116.9	75°	4353.8	1398.1	456.8	438.5	481.4	579.5	1063.9	993.4	772.7	659.2
2443.7	77.5°	1799.8	720.5	420.1	395.5	398.6	472.2	886.1	926.0	735.9	561.1
815.6	80°	671.5	432.3	337.3	315.8	306.6	346.5	631.6	738.9	628.5	459.9
358.7	82.5°	349.5	269.8	230.0	230.0	208.5	220.8	340.3	490.6	475.2	315.8
144.1	85°	177.8	153.3	131.8	128.8	116.5	104.2	171.7	291.3	272.9	174.8
64.4	87.5°	95.0	85.9	55.2	52.1	42.9	27.6	30.7	58.3	95.0	76.7
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>
4068.7
4494.9
4645.1
4344.7
3817.3
3299.1
2701.2
2278.1
2017.5
1876.4
1750.7
1594.4
1395.1
1097.7
784.9
521.2
315.8
254.5
337.3
426.2
469.1
361.8
478.3
453.8
413.9
509.0
496.7
597.9
616.3
680.7
653.1
588.7
530.4
420.1
248.4
144.1
55.2
0.0

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