

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: P477703

Luminaire Tested: **IFLD-S-SA6A-730-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477703
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-730-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

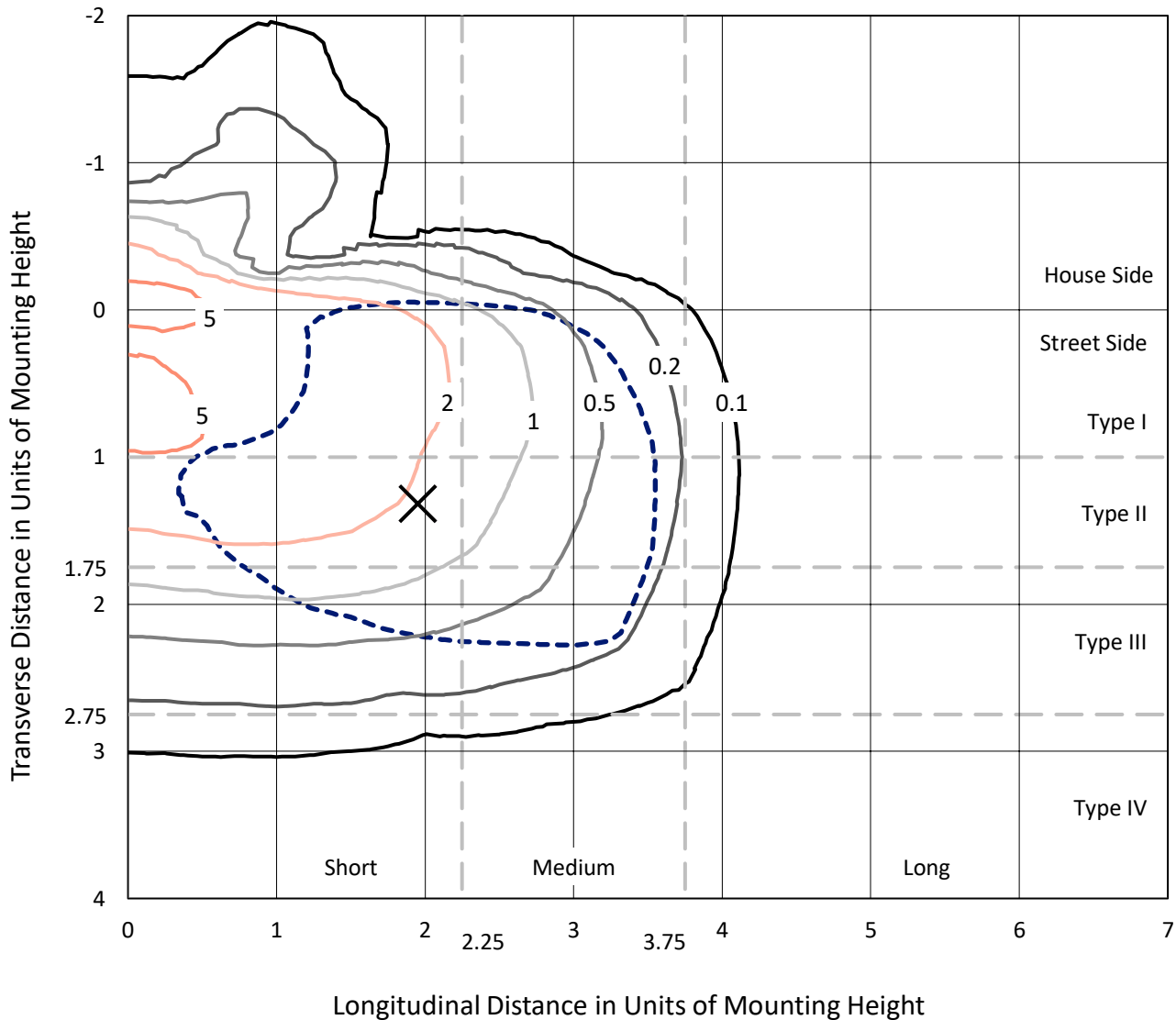
Lumens per Lamp: N/A
Luminaire Lumens: 24141.9 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 189.6
Input Voltage (V): 120
Input Current (A_{in}): 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

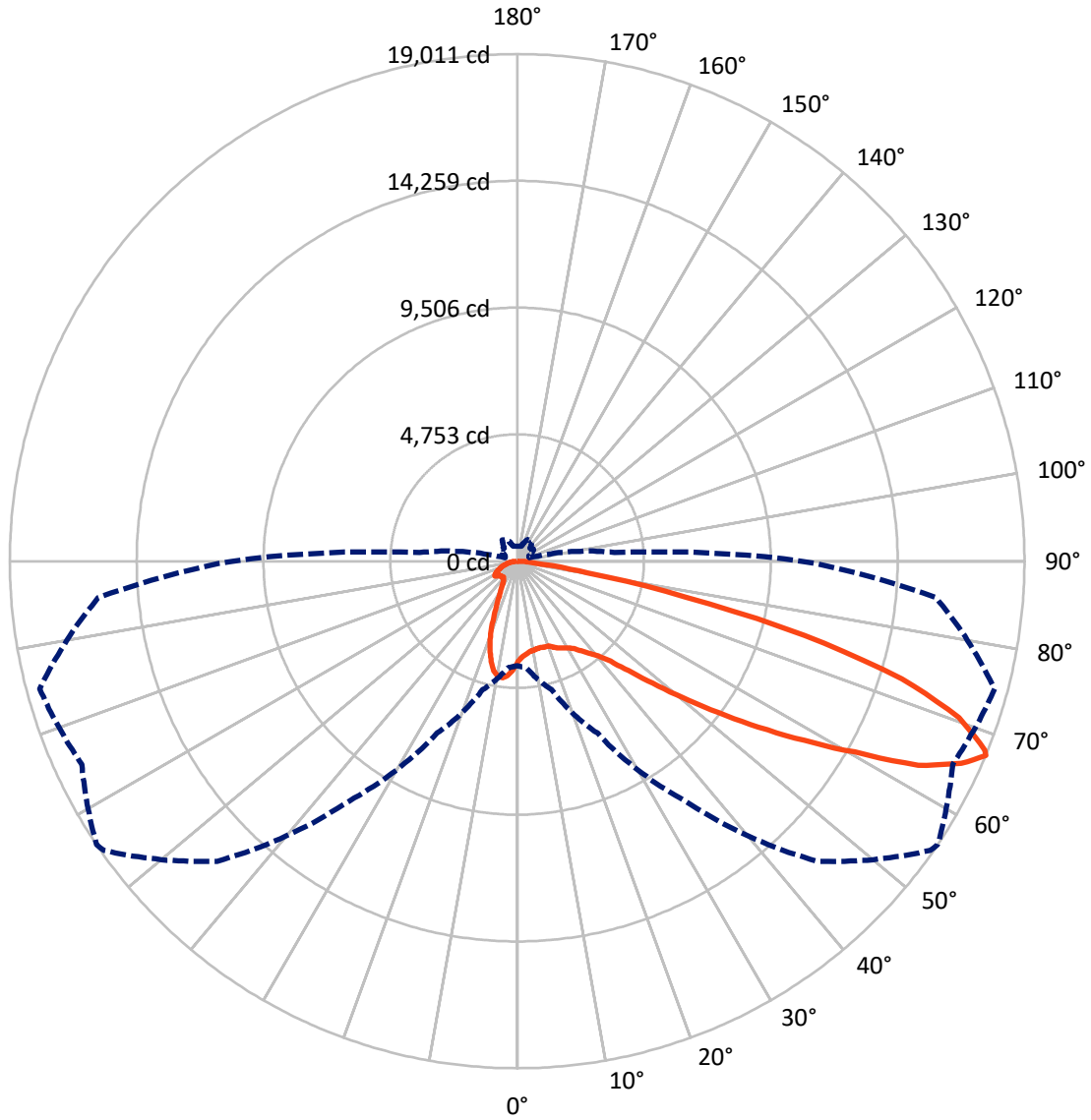
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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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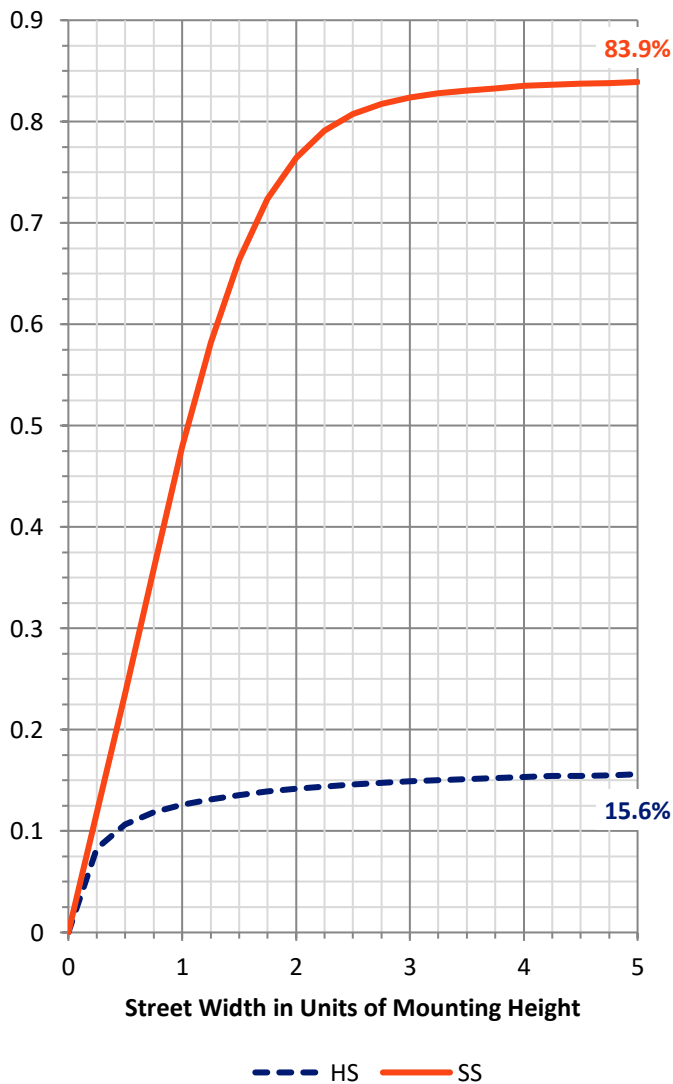
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3821.9	0.0	3821.9
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	20320.0	0.0	20320.0
	% Fixture	84.2	0.0	84.2
Total	Lumens	24141.9	0.0	24141.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.9	1.5
10°-20°	987.3	4.1
20°-30°	1548.3	6.4
30°-40°	2210.3	9.2
40°-50°	3335.9	13.8
50°-60°	5310.2	22.0
60°-70°	6788.7	28.1
70°-80°	3309.9	13.7
80°-90°	289.5	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°	24141.9	100.0
0°-180°	24141.9	100.0

Coefficient of Utilization

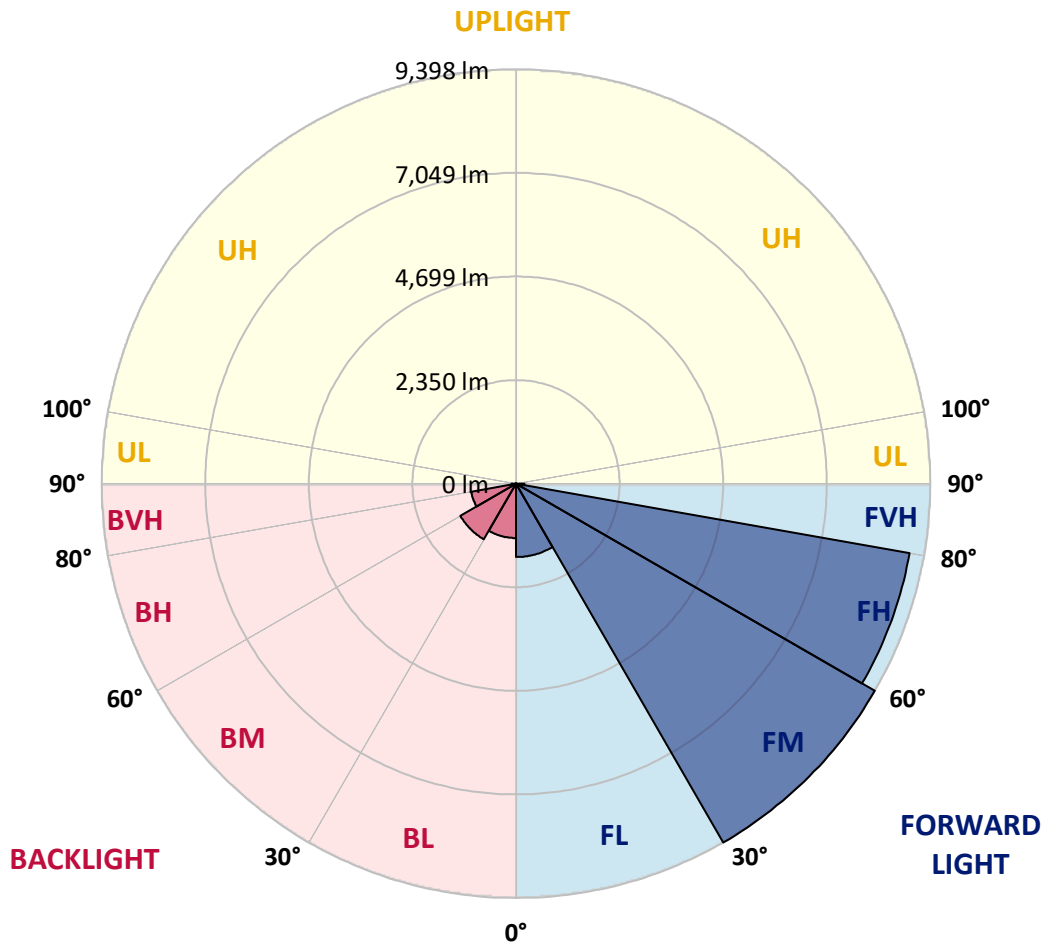


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1663.7	6.9			
FM (30°-60°)	9398.3	38.9			
FH (60°-80°)	9065.8	37.6			G4/12000
FVH (80°-90°)	192.3	0.8			G2/225
BL (0°-30°)	1233.8	5.1	B3/2500		
BM (30°-60°)	1458.1	6.0	B2/2500		
BH (60°-80°)	1032.7	4.3	B3/2500		G3/2500
BVH (80°-90°)	97.3	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°	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4
2.5°	3450.7	3436.5	3453.5	3436.5	3513.0	3558.3	3572.4	3592.2	3663.0	3730.9
5°	3306.3	3244.1	3312.0	3334.6	3340.3	3416.7	3496.0	3510.1	3546.9	3657.3
7.5°	3065.7	3136.5	3111.0	3178.9	3249.7	3326.1	3456.4	3419.6	3555.4	3660.2
10°	3014.8	3020.4	3048.7	3074.2	3136.5	3235.6	3416.7	3394.1	3532.8	3756.4
12.5°	3065.7	3065.7	3057.2	3037.4	3108.2	3204.4	3348.8	3360.1	3578.1	3784.7
15°	3244.1	3278.0	3187.4	3201.6	3173.3	3204.4	3331.8	3357.3	3595.1	3807.4
17.5°	3680.0	3668.7	3561.1	3411.1	3286.5	3266.7	3354.5	3382.8	3578.1	3872.5
20°	4104.6	4082.0	3895.1	3739.4	3493.2	3377.1	3391.3	3394.1	3606.4	3914.9
22.5°	4577.3	4636.8	4433.0	4115.9	3810.2	3521.5	3464.9	3510.1	3671.5	3937.6
25°	5319.0	5191.6	5016.1	4600.0	4107.4	3745.1	3586.6	3609.2	3733.8	3994.2
27.5°	5854.0	5803.1	5528.5	5191.6	4523.6	3920.6	3651.7	3694.1	3847.0	3991.4
30°	6369.2	6369.2	6202.2	5698.3	4962.3	4215.0	3790.4	3770.6	3793.2	3985.7
32.5°	6972.2	6890.1	6649.5	6315.4	5514.3	4483.9	3900.8	3906.5	3906.5	4090.5
35°	7289.2	7422.3	7260.9	6717.4	5936.1	4931.2	4166.9	4124.4	4093.3	4206.5
37.5°	7753.5	7832.7	7662.9	7343.0	6459.8	5293.5	4401.8	4367.9	4186.7	4297.1
40°	8033.7	8019.6	8013.9	7866.7	7153.3	5721.0	4747.2	4659.4	4416.0	4617.0
42.5°	8192.2	8163.9	8512.1	8421.5	7807.2	6349.4	5180.3	5132.2	4863.3	5186.0
45°	8370.6	8580.0	8866.0	9120.7	8568.7	7232.6	5913.5	5845.5	5604.9	6015.4
47.5°	8526.3	8783.9	9149.0	9420.8	9256.6	8192.2	6819.3	6836.3	6677.8	7099.6
50°	8786.7	8812.2	9307.6	9856.7	9984.1	9078.3	8036.5	8008.2	7937.5	8529.1
52.5°	8707.4	8783.9	9409.5	10111.5	10321.0	10015.2	9344.4	9429.3	9335.9	10080.3
55°	7416.6	7645.9	9347.2	10380.4	11119.2	11073.9	11025.8	10969.2	10963.5	11824.1
57.5°	6830.6	7017.5	8234.7	10677.6	11974.1	12308.2	12619.5	12681.8	12679.0	13717.9
60°	6445.6	6638.1	7784.6	10516.3	12701.6	13924.5	14521.8	14530.3	14513.3	15741.9
62.5°	5692.7	5879.5	7006.1	9633.1	12902.6	15416.3	16746.8	16857.2	16078.7	17485.6
65°	4786.8	4939.7	5933.3	8282.8	12367.6	16364.6	18419.8	18289.6	17397.9	18482.1
67°	3914.9	4016.9	4985.0	7110.9	10969.2	15908.9	18903.8	19011.4	18006.5	18524.5
67.5°	3665.8	3759.3	4673.6	6711.7	10437.0	15563.5	18920.8	18903.8	18017.8	18533.0
70°	2544.9	2584.5	3184.6	4617.0	7688.4	13148.9	17539.4	17579.0	17262.0	17528.1
72.5°	1687.1	1746.6	2128.7	2910.0	4532.1	9568.0	14660.5	15085.1	14884.2	14371.8
75°	1087.0	1121.0	1392.7	1732.4	2230.6	5449.2	10830.5	11113.6	10652.2	8888.6
77.5°	608.6	645.4	840.7	1053.0	1087.0	2267.4	6083.3	6434.3	5452.1	3776.2
80°	379.3	427.4	634.1	625.6	518.0	832.2	2508.1	2686.4	2179.7	1299.3
82.5°	285.9	322.7	489.7	438.8	291.6	370.8	939.8	1007.8	798.3	501.0
85°	195.3	246.3	353.8	271.8	152.9	178.3	373.7	402.0	365.2	243.4
87.5°	70.8	104.7	184.0	135.9	67.9	53.8	121.7	135.9	130.2	110.4
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°
3756.4	0°	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4
3790.4	2.5°	3844.2	3883.8	3903.6	4019.7	4067.8	4059.3	4070.6	4087.6	4104.6	4127.3
3838.5	5°	3875.3	3997.0	4062.1	4198.0	4288.6	4249.0	4299.9	4285.8	4266.0	4263.1
3926.3	7.5°	3977.2	4132.9	4328.2	4365.0	4404.7	4305.6	4220.7	4104.6	4076.3	3977.2
3999.9	10°	4158.4	4285.8	4523.6	4537.7	4362.2	4107.4	3917.8	3677.2	3674.3	3530.0
4113.1	12.5°	4331.1	4475.4	4667.9	4585.8	4166.9	3818.7	3510.1	3246.9	3136.5	3062.9
4181.0	15°	4438.6	4676.4	4778.3	4424.5	3824.4	3354.5	2955.3	2672.2	2559.0	2505.2
4266.0	17.5°	4537.7	4868.9	4823.6	4141.4	3402.6	2876.1	2400.5	2154.2	2123.1	2083.4
4401.8	20°	4673.6	4939.7	4662.3	3773.4	2924.2	2258.9	1956.1	1837.2	1865.5	1882.5
4416.0	22.5°	4801.0	4976.5	4458.5	3371.4	2309.9	1789.0	1639.0	1664.5	1707.0	1763.6
4450.0	25°	4857.6	5035.9	4183.9	2816.6	1757.9	1506.0	1472.0	1514.5	1585.2	1588.1
4498.1	27.5°	4894.4	4993.5	3852.7	2275.9	1389.9	1316.3	1367.3	1398.4	1406.9	1440.9
4600.0	30°	4959.5	4905.7	3433.7	1627.7	1166.3	1169.1	1234.2	1234.2	1234.2	1259.7
4701.9	32.5°	5072.7	4846.3	2944.0	1188.9	1004.9	1095.5	1078.5	1072.9	1061.5	1030.4
4832.1	35°	5143.5	4684.9	2324.1	880.4	903.0	1004.9	999.3	911.5	764.3	690.7
5163.3	37.5°	5290.7	4602.8	1709.8	679.4	843.6	959.6	928.5	716.2	554.8	484.1
5573.8	40°	5607.7	4549.0	1183.3	594.5	803.9	937.0	829.4	611.4	424.6	300.1
6207.9	42.5°	5995.6	4551.9	803.9	560.5	806.8	985.1	798.3	523.7	300.1	240.6
7054.3	45°	6516.4	4509.4	552.0	560.5	857.7	1064.4	818.1	475.6	291.6	305.7
8115.8	47.5°	7076.9	4546.2	410.5	509.5	866.2	1067.2	747.3	467.1	280.2	353.8
9270.8	50°	7730.8	4583.0	339.7	469.9	869.0	1033.2	687.9	455.8	291.6	373.7
10595.5	52.5°	8404.5	4699.1	288.7	444.4	903.0	1019.1	687.9	472.7	291.6	325.5
12282.7	55°	9409.5	4996.3	416.1	554.8	1027.6	1112.5	846.4	662.4	407.6	419.0
13899.0	57.5°	10519.1	5302.0	464.2	583.1	1055.9	1002.1	911.5	730.3	430.3	433.1
15155.9	60°	11249.5	5313.3	461.4	569.0	987.9	866.2	891.7	770.0	438.8	370.8
15934.4	62.5°	11541.0	4968.0	481.2	569.0	920.0	809.6	914.3	829.4	452.9	464.2
16155.2	65°	11209.8	4254.6	464.2	509.5	809.6	724.7	920.0	840.7	495.4	467.1
15758.9	67°	10691.8	3665.8	472.7	484.1	753.0	687.9	968.1	883.2	574.6	560.5
15552.2	67.5°	10544.6	3510.1	469.9	469.9	733.2	676.6	979.4	883.2	586.0	580.3
13726.4	70°	9293.4	2844.9	481.2	464.2	648.2	642.6	1041.7	931.3	673.7	679.4
10083.2	72.5°	7074.1	2157.0	478.4	464.2	563.3	614.3	1050.2	962.5	733.2	679.4
5647.4	75°	4019.7	1290.8	421.8	404.8	444.4	535.0	982.3	917.2	713.4	608.6
2256.1	77.5°	1661.7	665.2	387.8	365.2	368.0	435.9	818.1	854.9	679.4	518.0
753.0	80°	619.9	399.1	311.4	291.6	283.1	319.9	583.1	682.2	580.3	424.6
331.2	82.5°	322.7	249.1	212.3	212.3	192.5	203.8	314.2	452.9	438.8	291.6
133.0	85°	164.2	141.5	121.7	118.9	107.6	96.2	158.5	268.9	251.9	161.4
59.4	87.5°	87.8	79.3	51.0	48.1	39.6	25.5	28.3	53.8	87.8	70.8
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



180°
3756.4
4149.9
4288.6
4011.2
3524.3
3045.9
2493.9
2103.3
1862.6
1732.4
1616.4
1472.0
1288.0
1013.4
724.7
481.2
291.6
235.0
311.4
393.5
433.1
334.0
441.6
419.0
382.2
469.9
458.6
552.0
569.0
628.4
603.0
543.5
489.7
387.8
229.3
133.0
51.0
0.0

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