

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: P477943

Luminaire Tested: **IFLD-M-SA4B-830-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477943
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-830-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

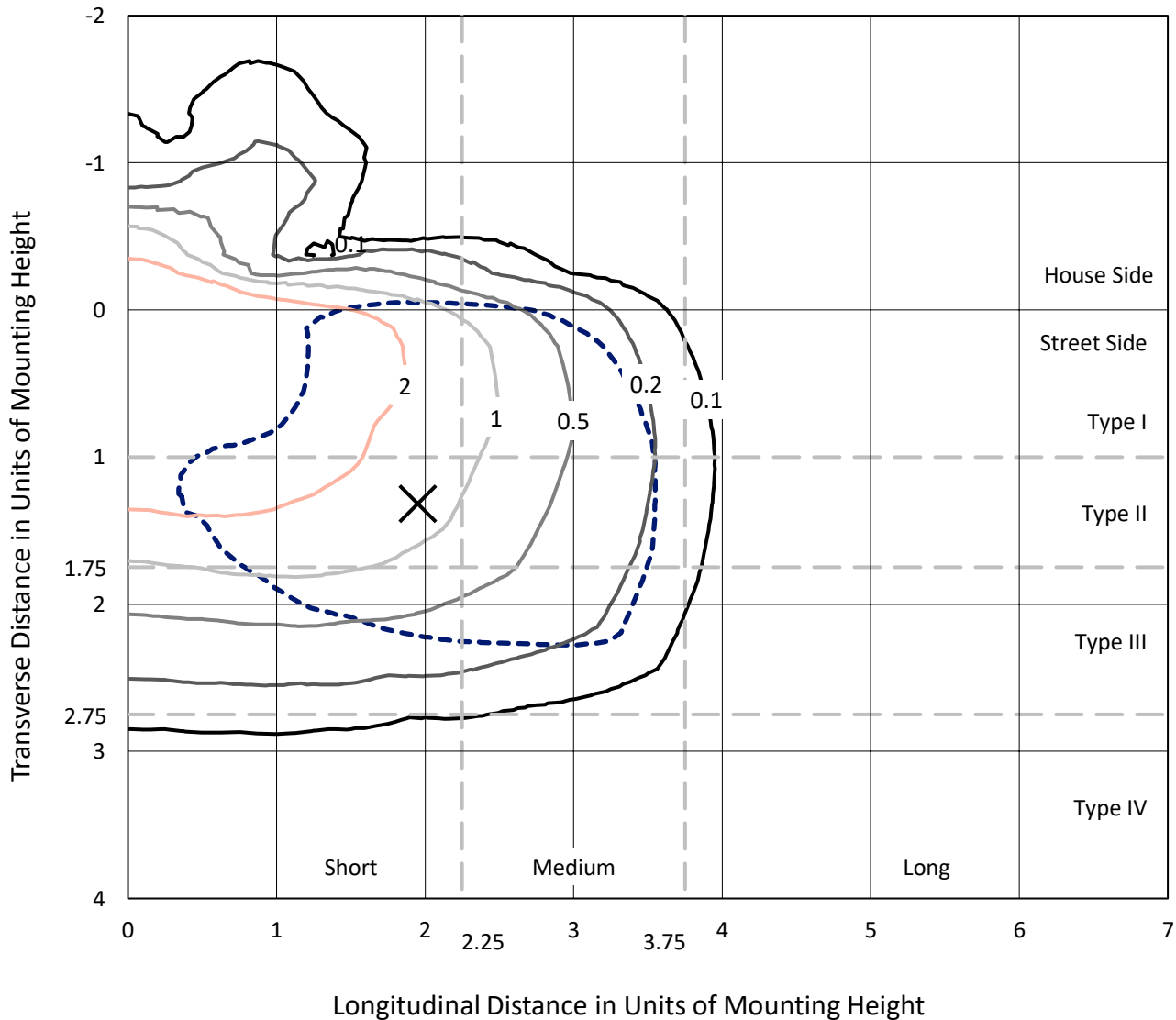
Lumens per Lamp: N/A
Luminaire Lumens: 17826.9 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 166.1
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

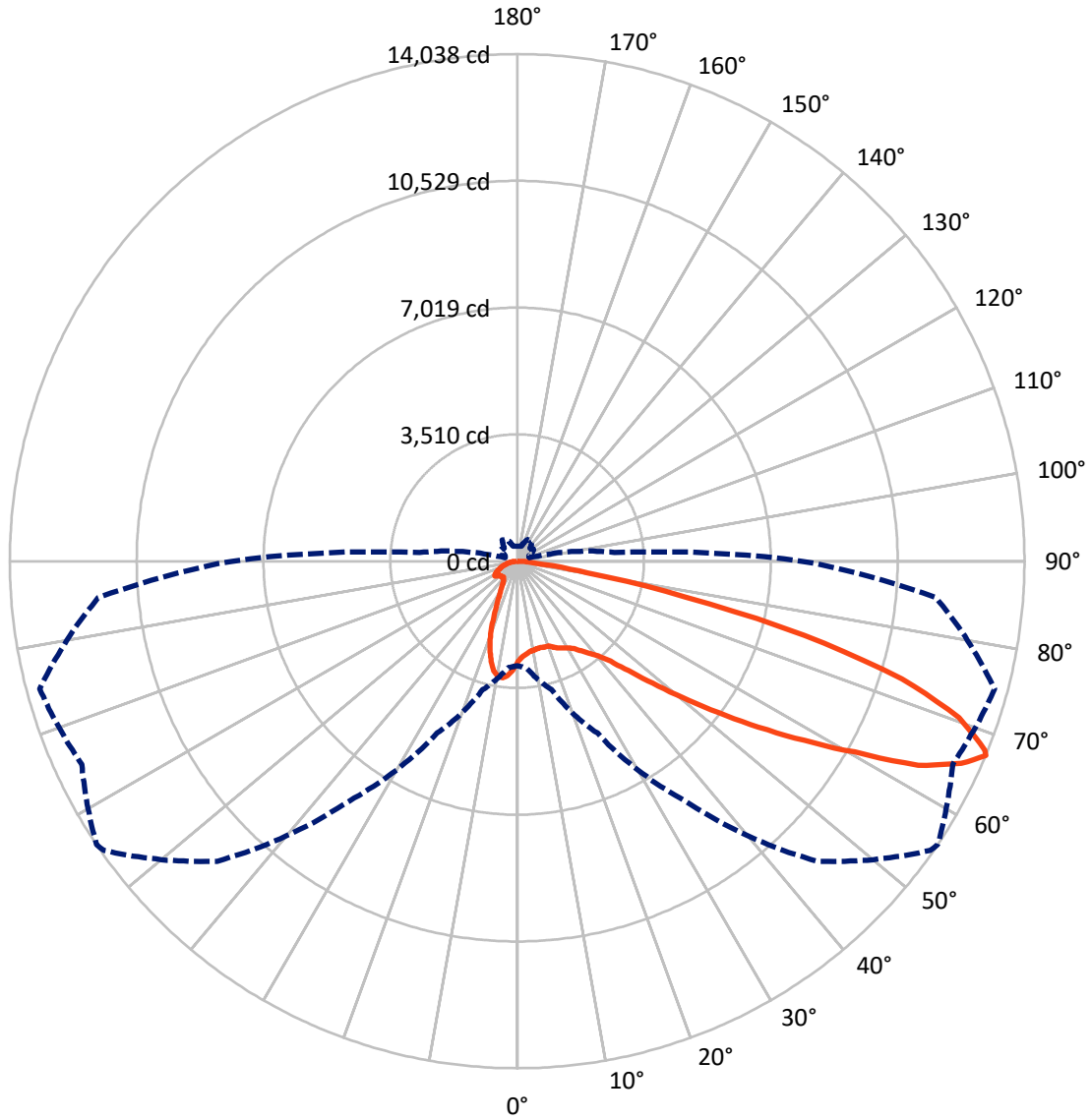
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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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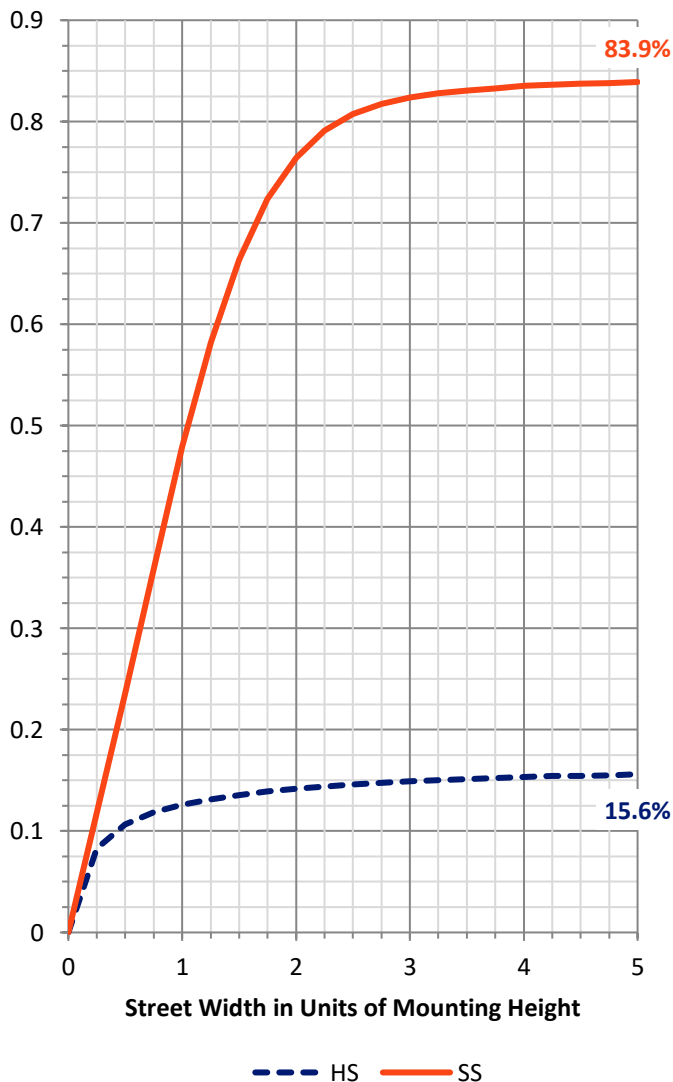
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2822.2	0.0	2822.2
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	15004.8	0.0	15004.8
	% Fixture	84.2	0.0	84.2
Total	Lumens	17826.9	0.0	17826.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.2	1.5
10°-20°	729.0	4.1
20°-30°	1143.3	6.4
30°-40°	1632.1	9.2
40°-50°	2463.3	13.8
50°-60°	3921.2	22.0
60°-70°	5012.9	28.1
70°-80°	2444.1	13.7
80°-90°	213.8	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°	17826.9	100.0
0°-180°	17826.9	100.0

Coefficient of Utilization

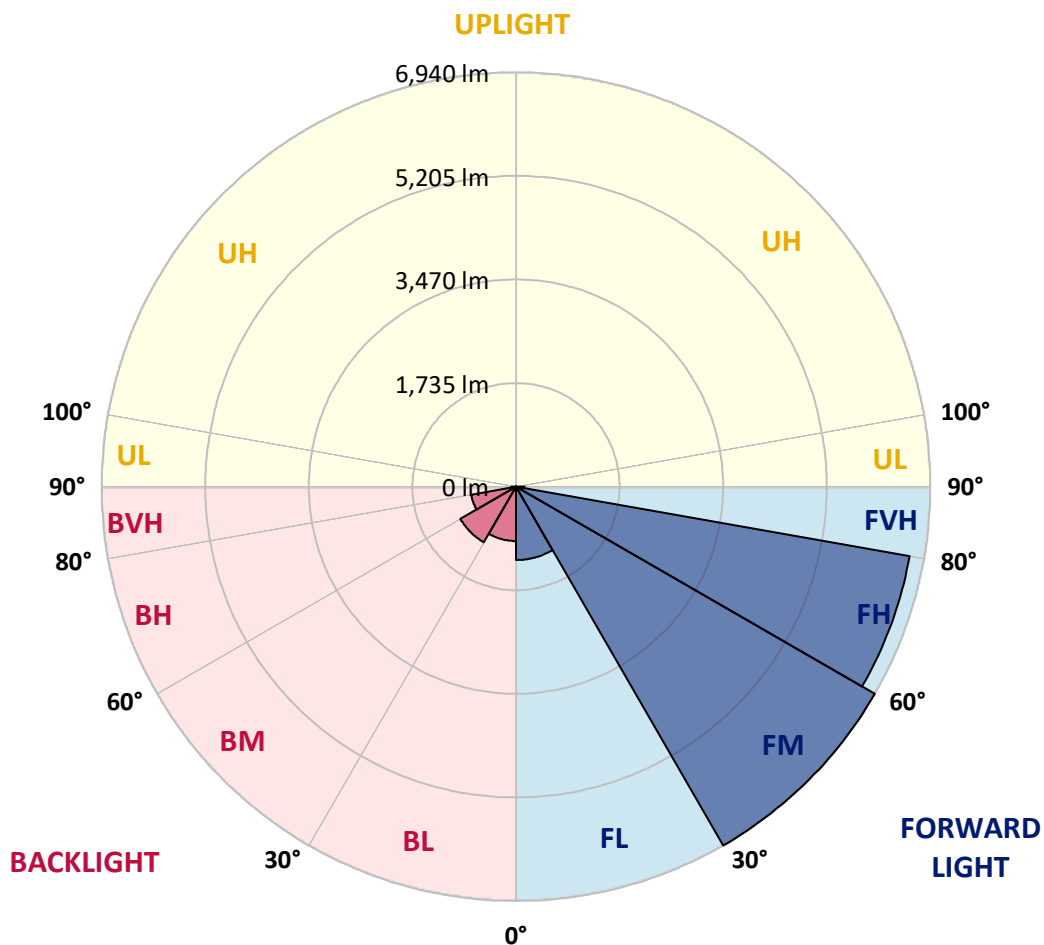


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1228.5	6.9			
FM (30°-60°)	6939.9	38.9			
FH (60°-80°)	6694.4	37.6			G3/7500
FVH (80°-90°)	142.0	0.8			G2/225
BL (0°-30°)	911.1	5.1	B2/1000		
BM (30°-60°)	1076.7	6.0	B2/2500		
BH (60°-80°)	762.6	4.3	B2/1000		G2/1000
BVH (80°-90°)	71.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	2773.8	2773.8	2773.8	2773.8	2773.8	2773.8	2773.8	2773.8	2773.8	2773.8
2.5°	2548.1	2537.6	2550.2	2537.6	2594.1	2627.5	2638.0	2652.6	2704.8	2755.0
5°	2441.5	2395.5	2445.6	2462.4	2466.6	2523.0	2581.5	2592.0	2619.1	2700.7
7.5°	2263.8	2316.0	2297.2	2347.4	2399.7	2456.1	2552.3	2525.1	2625.4	2702.8
10°	2226.2	2230.3	2251.3	2270.1	2316.0	2389.2	2523.0	2506.3	2608.7	2773.8
12.5°	2263.8	2263.8	2257.5	2242.9	2295.1	2366.2	2472.8	2481.2	2642.1	2794.7
15°	2395.5	2420.6	2353.7	2364.1	2343.2	2366.2	2460.3	2479.1	2654.7	2811.5
17.5°	2717.4	2709.0	2629.6	2518.8	2426.8	2412.2	2477.0	2497.9	2642.1	2859.5
20°	3030.9	3014.2	2876.2	2761.3	2579.4	2493.7	2504.2	2506.3	2663.0	2890.9
22.5°	3380.0	3423.9	3273.4	3039.3	2813.5	2600.3	2558.5	2592.0	2711.1	2907.6
25°	3927.7	3833.6	3704.0	3396.7	3033.0	2765.5	2648.4	2665.1	2757.1	2949.4
27.5°	4322.7	4285.1	4082.4	3833.6	3340.3	2895.1	2696.5	2727.8	2840.7	2947.3
30°	4703.2	4703.2	4579.8	4207.8	3664.3	3112.5	2798.9	2784.3	2801.0	2943.1
32.5°	5148.4	5087.8	4910.1	4663.5	4071.9	3311.0	2880.4	2884.6	2884.6	3020.5
35°	5382.5	5480.8	5361.6	4960.3	4383.4	3641.3	3076.9	3045.6	3022.6	3106.2
37.5°	5725.3	5783.9	5658.4	5422.2	4770.1	3908.9	3250.4	3225.3	3091.6	3173.1
40°	5932.3	5921.8	5917.6	5808.9	5282.2	4224.5	3505.4	3440.6	3260.9	3409.3
42.5°	6049.3	6028.4	6285.5	6218.6	5765.0	4688.5	3825.2	3789.7	3591.1	3829.4
45°	6181.0	6335.7	6546.8	6734.9	6327.3	5340.7	4366.6	4316.5	4138.8	4441.9
47.5°	6296.0	6486.2	6755.8	6956.5	6835.3	6049.3	5035.5	5048.1	4931.0	5242.5
50°	6488.3	6507.1	6872.9	7278.4	7372.5	6703.6	5934.4	5913.5	5861.2	6298.1
52.5°	6429.8	6486.2	6948.1	7466.5	7621.2	7395.5	6900.1	6962.8	6893.8	7443.5
55°	5476.6	5645.9	6902.2	7665.1	8210.7	8177.2	8141.7	8099.9	8095.7	8731.2
57.5°	5043.9	5181.8	6080.7	7884.6	8842.0	9088.6	9318.5	9364.5	9362.4	10129.6
60°	4759.6	4901.7	5748.3	7765.5	9379.2	10282.2	10723.2	10729.5	10717.0	11624.1
62.5°	4203.6	4341.5	5173.5	7113.3	9527.6	11383.8	12366.2	12447.7	11872.9	12911.8
65°	3534.7	3647.6	4381.3	6116.2	9132.5	12084.0	13601.6	13505.4	12847.0	13647.6
67°	2890.9	2966.1	3681.0	5250.8	8099.9	11747.5	13959.0	14038.4	13296.4	13678.9
67.5°	2706.9	2775.9	3451.1	4956.1	7706.9	11492.5	13971.5	13959.0	13304.7	13685.2
70°	1879.2	1908.4	2351.6	3409.3	5677.2	9709.4	12951.5	12980.7	12746.6	12943.1
72.5°	1245.8	1289.7	1571.9	2148.8	3346.6	7065.2	10825.7	11139.2	10990.8	10612.4
75°	802.7	827.8	1028.4	1279.3	1647.2	4023.8	7997.5	8206.5	7865.8	6563.5
77.5°	449.4	476.6	620.8	777.6	802.7	1674.3	4492.0	4751.2	4025.9	2788.5
80°	280.1	315.6	468.2	462.0	382.5	614.5	1852.0	1983.7	1609.5	959.4
82.5°	211.1	238.3	361.6	324.0	215.3	273.8	694.0	744.1	589.5	370.0
85°	144.2	181.9	261.3	200.7	112.9	131.7	275.9	296.8	269.6	179.8
87.5°	52.3	77.3	135.9	100.3	50.2	39.7	89.9	100.3	96.2	81.5
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°
2773.8	0°	2773.8	2773.8	2773.8	2773.8	2773.8	2773.8	2773.8	2773.8	2773.8	2773.8
2798.9	2.5°	2838.6	2867.9	2882.5	2968.2	3003.8	2997.5	3005.8	3018.4	3030.9	3047.7
2834.4	5°	2861.6	2951.5	2999.6	3099.9	3166.8	3137.5	3175.2	3164.7	3150.1	3148.0
2899.2	7.5°	2936.9	3051.8	3196.1	3223.2	3252.5	3179.3	3116.6	3030.9	3010.0	2936.9
2953.6	10°	3070.6	3164.7	3340.3	3350.7	3221.1	3033.0	2893.0	2715.3	2713.2	2606.6
3037.2	12.5°	3198.2	3304.8	3446.9	3386.3	3076.9	2819.8	2592.0	2397.6	2316.0	2261.7
3087.4	15°	3277.6	3453.2	3528.4	3267.1	2824.0	2477.0	2182.3	1973.2	1889.6	1849.9
3150.1	17.5°	3350.7	3595.3	3561.9	3058.1	2512.5	2123.7	1772.6	1590.7	1567.7	1538.5
3250.4	20°	3451.1	3647.6	3442.7	2786.4	2159.3	1668.1	1444.4	1356.6	1377.5	1390.0
3260.9	22.5°	3545.1	3674.7	3292.2	2489.5	1705.7	1321.1	1210.3	1229.1	1260.4	1302.3
3285.9	25°	3587.0	3718.6	3089.5	2079.8	1298.1	1112.0	1087.0	1118.3	1170.6	1172.7
3321.5	27.5°	3614.1	3687.3	2844.9	1680.6	1026.3	972.0	1009.6	1032.6	1038.9	1064.0
3396.7	30°	3662.2	3622.5	2535.5	1201.9	861.2	863.3	911.4	911.4	911.4	930.2
3472.0	32.5°	3745.8	3578.6	2173.9	877.9	742.1	808.9	796.4	792.2	783.9	760.9
3568.1	35°	3798.1	3459.4	1716.1	650.1	666.8	742.1	737.9	673.1	564.4	510.0
3812.7	37.5°	3906.8	3398.8	1262.5	501.7	622.9	708.6	685.6	528.8	409.7	357.4
4115.8	40°	4140.9	3359.1	873.7	439.0	593.6	691.9	612.5	451.5	313.5	221.6
4584.0	42.5°	4427.3	3361.2	593.6	413.9	595.7	727.4	589.5	386.7	221.6	177.7
5209.0	45°	4811.9	3329.8	407.6	413.9	633.4	786.0	604.1	351.2	215.3	225.8
5992.9	47.5°	5225.7	3357.0	303.1	376.3	639.6	788.0	551.8	344.9	206.9	261.3
6845.7	50°	5708.6	3384.2	250.8	347.0	641.7	763.0	507.9	336.5	215.3	275.9
7824.0	52.5°	6206.1	3469.9	213.2	328.2	666.8	752.5	507.9	349.1	215.3	240.4
9069.8	55°	6948.1	3689.4	307.3	409.7	758.8	821.5	625.0	489.1	301.0	309.4
10263.4	57.5°	7767.5	3915.1	342.8	430.6	779.7	740.0	673.1	539.3	317.7	319.8
11191.5	60°	8306.8	3923.5	340.7	420.1	729.5	639.6	658.4	568.6	324.0	273.8
11766.3	62.5°	8522.1	3668.5	355.4	420.1	679.3	597.8	675.2	612.5	334.4	342.8
11929.3	65°	8277.6	3141.7	342.8	376.3	597.8	535.1	679.3	620.8	365.8	344.9
11636.7	67°	7895.1	2706.9	349.1	357.4	556.0	507.9	714.9	652.2	424.3	413.9
11484.1	67.5°	7786.4	2592.0	347.0	347.0	541.4	499.6	723.2	652.2	432.7	428.5
10135.9	70°	6862.4	2100.7	355.4	342.8	478.7	474.5	769.2	687.7	497.5	501.7
7445.6	72.5°	5223.7	1592.8	353.3	342.8	416.0	453.6	775.5	710.7	541.4	501.7
4170.1	75°	2968.2	953.2	311.5	298.9	328.2	395.1	725.3	677.3	526.8	449.4
1666.0	77.5°	1227.0	491.2	286.4	269.6	271.7	321.9	604.1	631.3	501.7	382.5
556.0	80°	457.8	294.7	229.9	215.3	209.0	236.2	430.6	503.8	428.5	313.5
244.6	82.5°	238.3	183.9	156.8	156.8	142.1	150.5	232.0	334.4	324.0	215.3
98.2	85°	121.2	104.5	89.9	87.8	79.4	71.1	117.1	198.6	186.0	119.1
43.9	87.5°	64.8	58.5	37.6	35.5	29.3	18.8	20.9	39.7	64.8	52.3
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°
2773.8
3064.4
3166.8
2962.0
2602.4
2249.2
1841.6
1553.1
1375.4
1279.3
1193.6
1087.0
951.1
748.3
535.1
355.4
215.3
173.5
229.9
290.6
319.8
246.7
326.1
309.4
282.2
347.0
338.6
407.6
420.1
464.0
445.2
401.3
361.6
286.4
169.3
98.2
37.6
0.0

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