

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: P477709

Luminaire Tested: **IFLD-M-SA4B-730-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477709
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-730-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

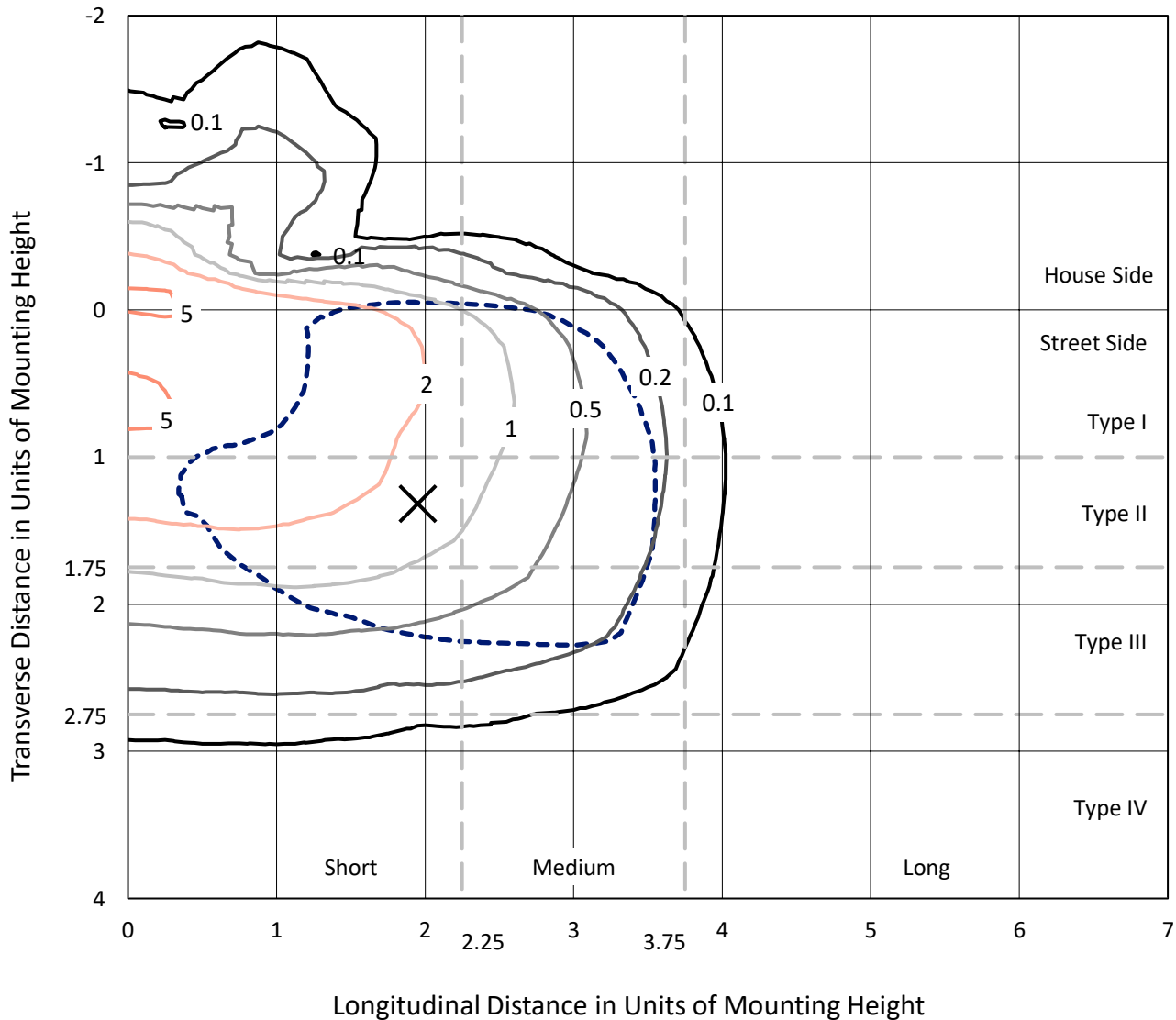
Lumens per Lamp: N/A
Luminaire Lumens: 20429.4 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

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

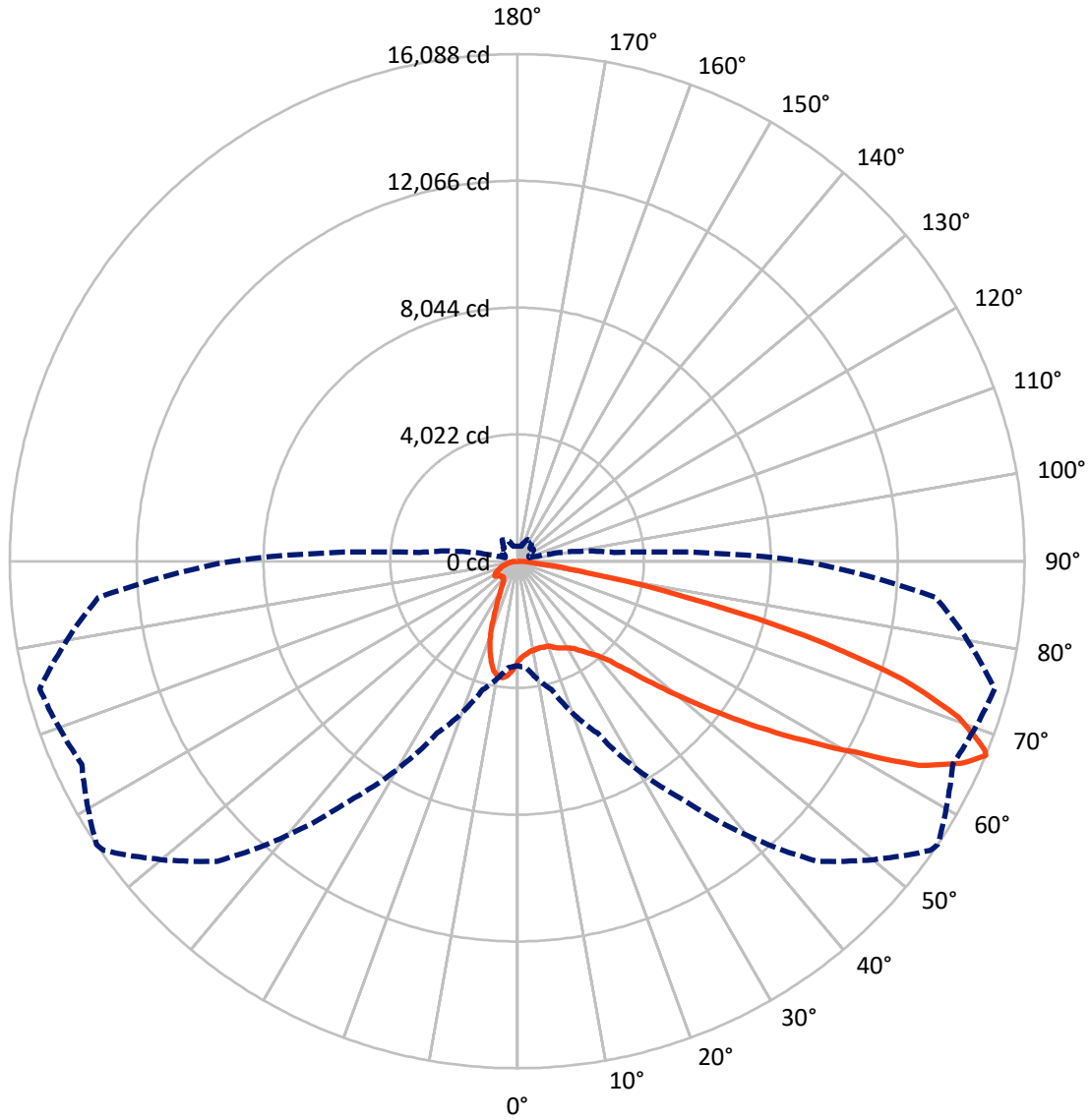
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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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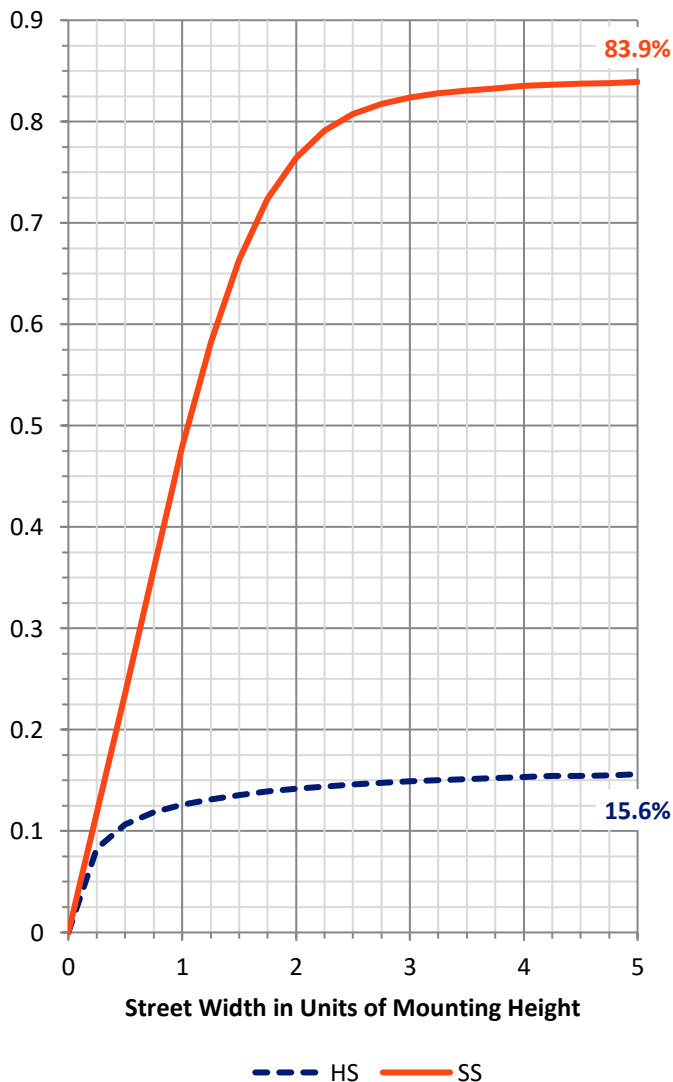
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3234.2	0.0	3234.2
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	17195.2	0.0	17195.2
	% Fixture	84.2	0.0	84.2
Total	Lumens	20429.4	0.0	20429.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.2	1.5
10°-20°	835.4	4.1
20°-30°	1310.2	6.4
30°-40°	1870.4	9.2
40°-50°	2822.9	13.8
50°-60°	4493.6	22.0
60°-70°	5744.7	28.1
70°-80°	2800.9	13.7
80°-90°	245.0	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°	20429.4	100.0
0°-180°	20429.4	100.0

Coefficient of Utilization

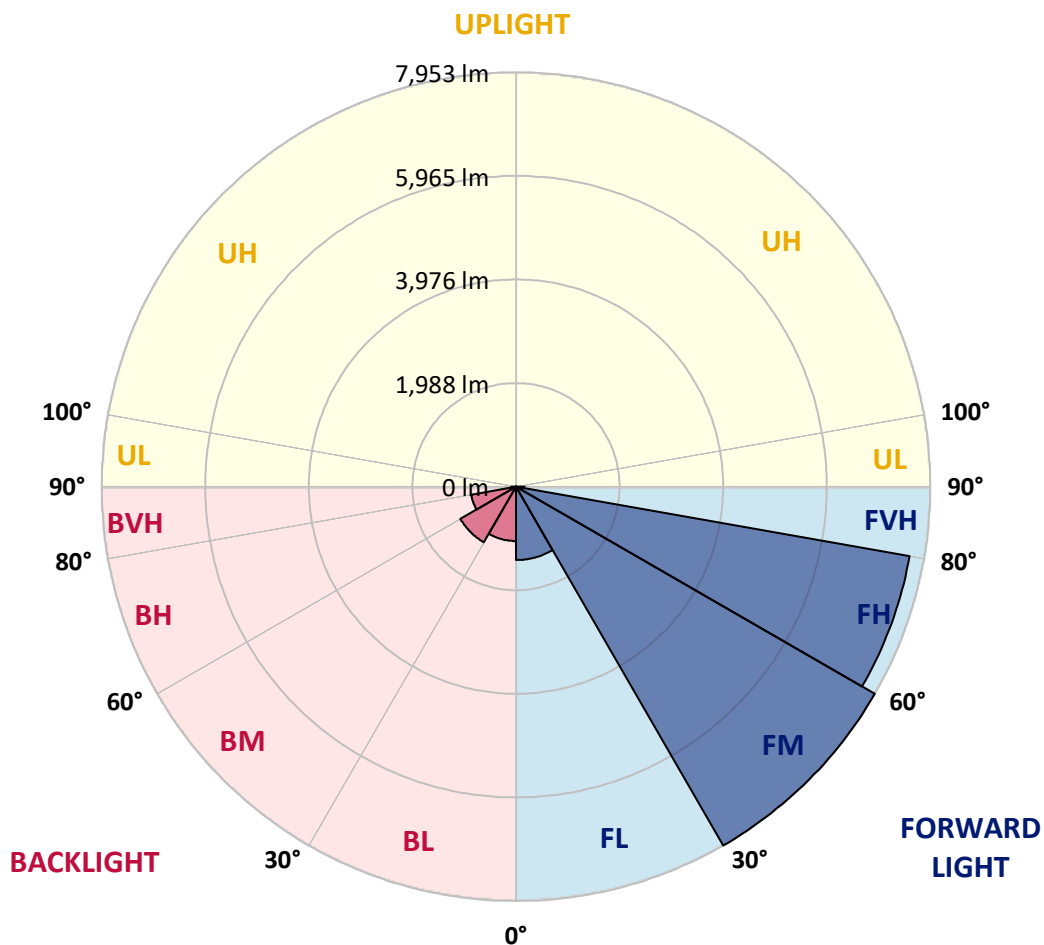


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1407.8	6.9			
FM (30°-60°)	7953.0	38.9			
FH (60°-80°)	7671.7	37.6			G4/12000
FVH (80°-90°)	162.7	0.8			G2/225
BL (0°-30°)	1044.1	5.1	B3/2500		
BM (30°-60°)	1233.9	6.0	B2/2500		
BH (60°-80°)	873.9	4.3	B2/1000		G2/1000
BVH (80°-90°)	82.3	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°	3178.8	3178.8	3178.8	3178.8	3178.8	3178.8	3178.8	3178.8	3178.8	3178.8
2.5°	2920.1	2908.1	2922.4	2908.1	2972.8	3011.1	3023.1	3039.8	3099.7	3157.2
5°	2797.9	2745.2	2802.7	2821.8	2826.6	2891.3	2958.4	2970.4	3001.5	3094.9
7.5°	2594.3	2654.2	2632.6	2690.1	2750.0	2814.7	2924.8	2893.7	3008.7	3097.3
10°	2551.2	2555.9	2579.9	2601.5	2654.2	2738.0	2891.3	2872.1	2989.5	3178.8
12.5°	2594.3	2594.3	2587.1	2570.3	2630.2	2711.7	2833.8	2843.4	3027.8	3202.7
15°	2745.2	2773.9	2697.3	2709.3	2685.3	2711.7	2819.4	2841.0	3042.2	3221.9
17.5°	3114.1	3104.5	3013.5	2886.5	2781.1	2764.3	2838.6	2862.6	3027.8	3277.0
20°	3473.4	3454.2	3296.1	3164.4	2956.0	2857.8	2869.7	2872.1	3051.8	3312.9
22.5°	3873.4	3923.7	3751.3	3483.0	3224.3	2979.9	2932.0	2970.4	3106.9	3332.1
25°	4501.1	4393.3	4244.7	3892.6	3475.8	3169.2	3035.0	3054.2	3159.6	3380.0
27.5°	4953.8	4910.7	4678.3	4393.3	3827.9	3317.7	3090.1	3126.1	3255.4	3377.6
30°	5389.8	5389.8	5248.4	4822.0	4199.2	3566.8	3207.5	3190.7	3209.9	3372.8
32.5°	5900.0	5830.5	5626.9	5344.3	4666.3	3794.4	3300.9	3305.7	3305.7	3461.4
35°	6168.3	6280.9	6144.3	5684.4	5023.3	4172.9	3526.1	3490.2	3463.8	3559.6
37.5°	6561.1	6628.2	6484.5	6213.8	5466.4	4479.5	3724.9	3696.2	3542.9	3636.3
40°	6798.3	6786.3	6781.5	6657.0	6053.3	4841.2	4017.2	3942.9	3736.9	3907.0
42.5°	6932.4	6908.5	7203.1	7126.5	6606.7	5373.0	4383.7	4343.0	4115.4	4388.5
45°	7083.3	7260.6	7502.6	7718.1	7251.0	6120.4	5004.1	4946.6	4743.0	5090.3
47.5°	7215.1	7433.1	7742.1	7972.1	7833.1	6932.4	5770.6	5785.0	5650.9	6007.8
50°	7435.5	7457.0	7876.2	8341.0	8448.8	7682.2	6800.7	6776.7	6716.8	7217.5
52.5°	7368.4	7433.1	7962.5	8556.5	8733.8	8475.1	7907.4	7979.2	7900.2	8530.2
55°	6276.1	6470.1	7909.8	8784.1	9409.3	9371.0	9330.3	9282.4	9277.6	10005.8
57.5°	5780.2	5938.3	6968.4	9035.6	10132.8	10415.4	10678.9	10731.6	10729.2	11608.4
60°	5454.4	5617.3	6587.5	8899.1	10748.4	11783.2	12288.7	12295.8	12281.5	13321.1
62.5°	4817.3	4975.4	5928.7	8151.7	10918.5	13045.6	14171.5	14264.9	13606.2	14796.7
65°	4050.7	4180.1	5020.9	7009.1	10465.7	13848.1	15587.2	15477.0	14722.4	15639.9
67°	3312.9	3399.1	4218.4	6017.4	9282.4	13462.4	15996.8	16087.8	15237.5	15675.8
67.5°	3102.1	3181.2	3954.9	5679.6	8832.0	13170.2	16011.2	15996.8	15247.0	15683.0
70°	2153.5	2187.0	2694.9	3907.0	6506.0	11126.9	14842.2	14875.7	14607.5	14832.6
72.5°	1427.7	1478.0	1801.4	2462.5	3835.1	8096.6	12406.0	12765.4	12595.3	12161.7
75°	919.9	948.6	1178.6	1466.0	1887.6	4611.2	9165.0	9404.5	9014.1	7521.7
77.5°	515.0	546.2	711.4	891.1	919.9	1918.8	5147.8	5444.9	4613.6	3195.5
80°	321.0	361.7	536.6	529.4	438.4	704.3	2122.4	2273.3	1844.5	1099.5
82.5°	241.9	273.1	414.4	371.3	246.7	313.8	795.3	852.8	675.5	424.0
85°	165.3	208.4	299.4	230.0	129.4	150.9	316.2	340.2	309.0	206.0
87.5°	59.9	88.6	155.7	115.0	57.5	45.5	103.0	115.0	110.2	93.4
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°
3178.8	0°	3178.8	3178.8	3178.8	3178.8	3178.8	3178.8	3178.8	3178.8	3178.8	3178.8
3207.5	2.5°	3253.0	3286.6	3303.3	3401.5	3442.3	3435.1	3444.7	3459.0	3473.4	3492.6
3248.2	5°	3279.4	3382.4	3437.5	3552.5	3629.1	3595.6	3638.7	3626.7	3609.9	3607.5
3322.5	7.5°	3365.6	3497.4	3662.6	3693.8	3727.3	3643.5	3571.6	3473.4	3449.4	3365.6
3384.8	10°	3518.9	3626.7	3827.9	3839.9	3691.4	3475.8	3315.3	3111.7	3109.3	2987.1
3480.6	12.5°	3665.0	3787.2	3950.1	3880.6	3526.1	3231.5	2970.4	2747.6	2654.2	2591.9
3538.1	15°	3756.1	3957.3	4043.5	3744.1	3236.3	2838.6	2500.9	2261.3	2165.5	2120.0
3609.9	17.5°	3839.9	4120.2	4081.8	3504.5	2879.3	2433.8	2031.3	1822.9	1796.6	1763.1
3724.9	20°	3954.9	4180.1	3945.3	3193.1	2474.5	1911.6	1655.3	1554.6	1578.6	1593.0
3736.9	22.5°	4062.7	4211.2	3772.8	2853.0	1954.7	1513.9	1387.0	1408.5	1444.5	1492.4
3765.6	25°	4110.6	4261.5	3540.5	2383.5	1487.6	1274.4	1245.6	1281.6	1341.5	1343.8
3806.4	27.5°	4141.7	4225.6	3260.2	1925.9	1176.2	1113.9	1157.0	1183.4	1190.5	1219.3
3892.6	30°	4196.8	4151.3	2905.7	1377.4	986.9	989.3	1044.4	1044.4	1044.4	1066.0
3978.8	32.5°	4292.6	4101.0	2491.3	1006.1	850.4	927.0	912.7	907.9	898.3	871.9
4089.0	35°	4352.5	3964.5	1966.7	745.0	764.1	850.4	845.6	771.3	646.8	584.5
4369.3	37.5°	4477.1	3895.0	1446.9	574.9	713.8	812.1	785.7	606.0	469.5	409.6
4716.6	40°	4745.4	3849.5	1001.3	503.0	680.3	792.9	701.9	517.4	359.3	253.9
5253.2	42.5°	5073.6	3851.9	680.3	474.3	682.7	833.6	675.5	443.2	253.9	203.6
5969.5	45°	5514.3	3816.0	467.1	474.3	725.8	900.7	692.3	402.4	246.7	258.7
6867.8	47.5°	5988.6	3847.1	347.3	431.2	733.0	903.1	632.4	395.2	237.1	299.4
7845.1	50°	6542.0	3878.2	287.5	397.6	735.4	874.3	582.1	385.7	246.7	316.2
8966.2	52.5°	7112.1	3976.4	244.3	376.1	764.1	862.4	582.1	400.0	246.7	275.5
10393.9	55°	7962.5	4228.0	352.1	469.5	869.5	941.4	716.2	560.5	344.9	354.5
11761.7	57.5°	8901.5	4486.7	392.9	493.5	893.5	848.0	771.3	618.0	364.1	366.5
12825.2	60°	9519.5	4496.3	390.5	481.5	836.0	733.0	754.6	651.6	371.3	313.8
13484.0	62.5°	9766.3	4204.0	407.2	481.5	778.5	685.1	773.7	701.9	383.3	392.9
13670.8	65°	9486.0	3600.4	392.9	431.2	685.1	613.2	778.5	711.4	419.2	395.2
13335.5	67°	9047.6	3102.1	400.0	409.6	637.2	582.1	819.2	747.4	486.3	474.3
13160.6	67.5°	8923.1	2970.4	397.6	397.6	620.4	572.5	828.8	747.4	495.9	491.1
11615.5	70°	7864.3	2407.4	407.2	392.9	548.6	543.8	881.5	788.1	570.1	574.9
8532.6	72.5°	5986.2	1825.3	404.8	392.9	476.7	519.8	888.7	814.5	620.4	574.9
4778.9	75°	3401.5	1092.3	356.9	342.5	376.1	452.7	831.2	776.1	603.7	515.0
1909.2	77.5°	1406.1	562.9	328.2	309.0	311.4	368.9	692.3	723.4	574.9	438.4
637.2	80°	524.6	337.8	263.5	246.7	239.5	270.7	493.5	577.3	491.1	359.3
280.3	82.5°	273.1	210.8	179.7	179.7	162.9	172.5	265.9	383.3	371.3	246.7
112.6	85°	138.9	119.8	103.0	100.6	91.0	81.4	134.1	227.6	213.2	136.5
50.3	87.5°	74.3	67.1	43.1	40.7	33.5	21.6	24.0	45.5	74.3	59.9
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°
3178.8
3511.7
3629.1
3394.4
2982.3
2577.5
2110.4
1779.8
1576.2
1466.0
1367.8
1245.6
1089.9
857.6
613.2
407.2
246.7
198.8
263.5
333.0
366.5
282.7
373.7
354.5
323.4
397.6
388.1
467.1
481.5
531.8
510.2
459.9
414.4
328.2
194.0
112.6
43.1
0.0

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