

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: P477554

Luminaire Tested: **IFLD-M-SA4C-830-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477554
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-830-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

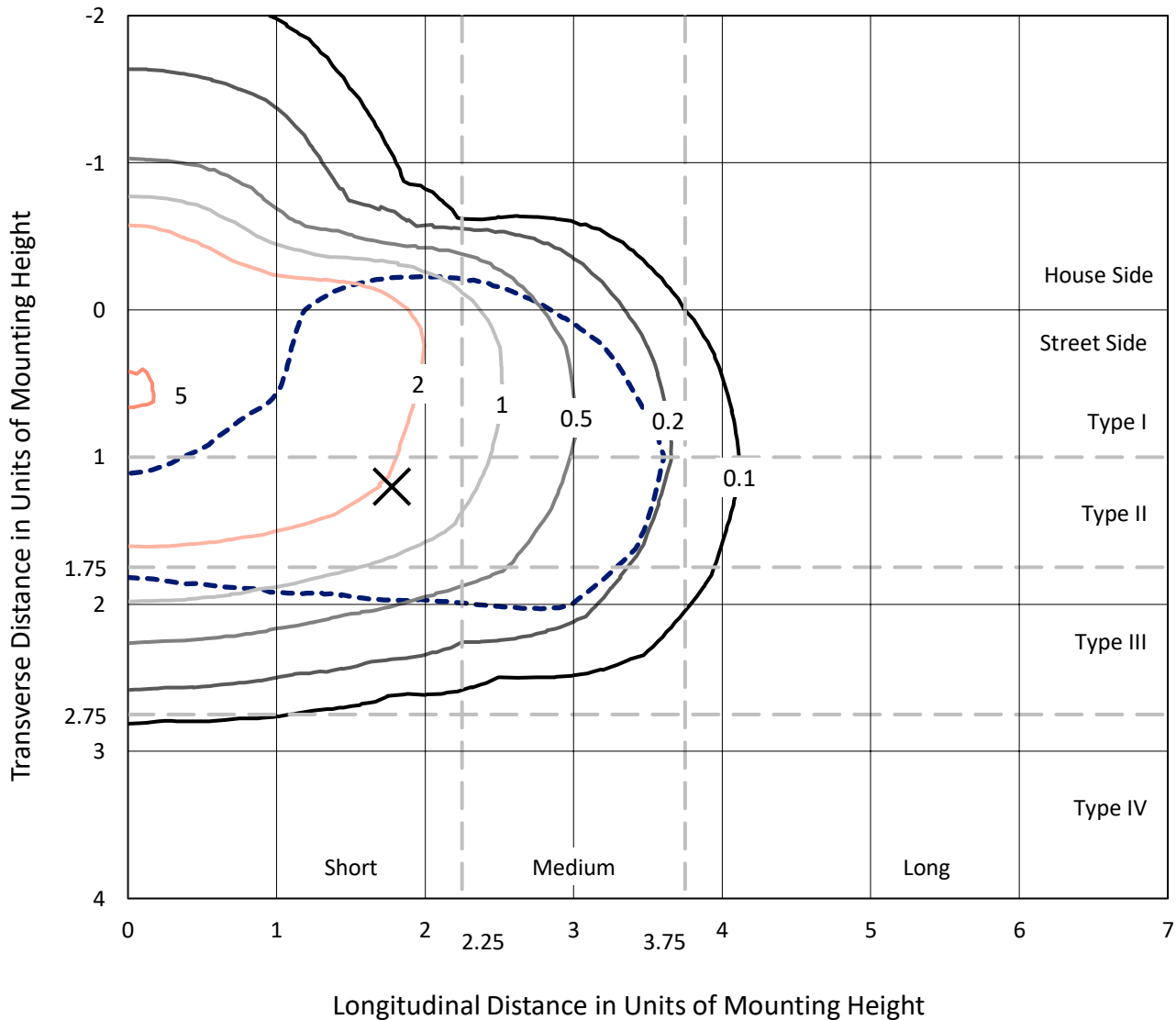
Lumens per Lamp: N/A
Luminaire Lumens: 23010.2 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 218.1
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

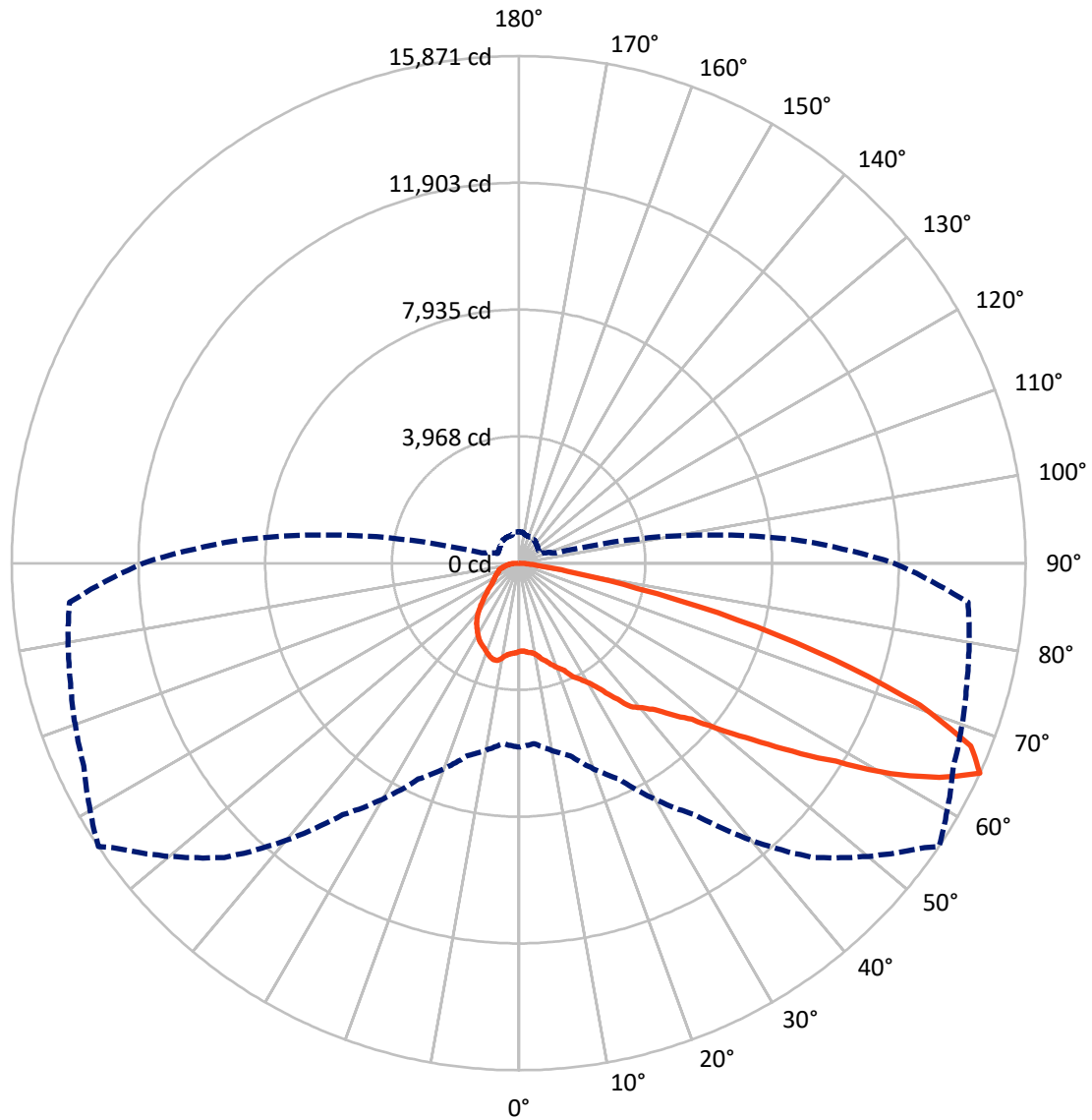
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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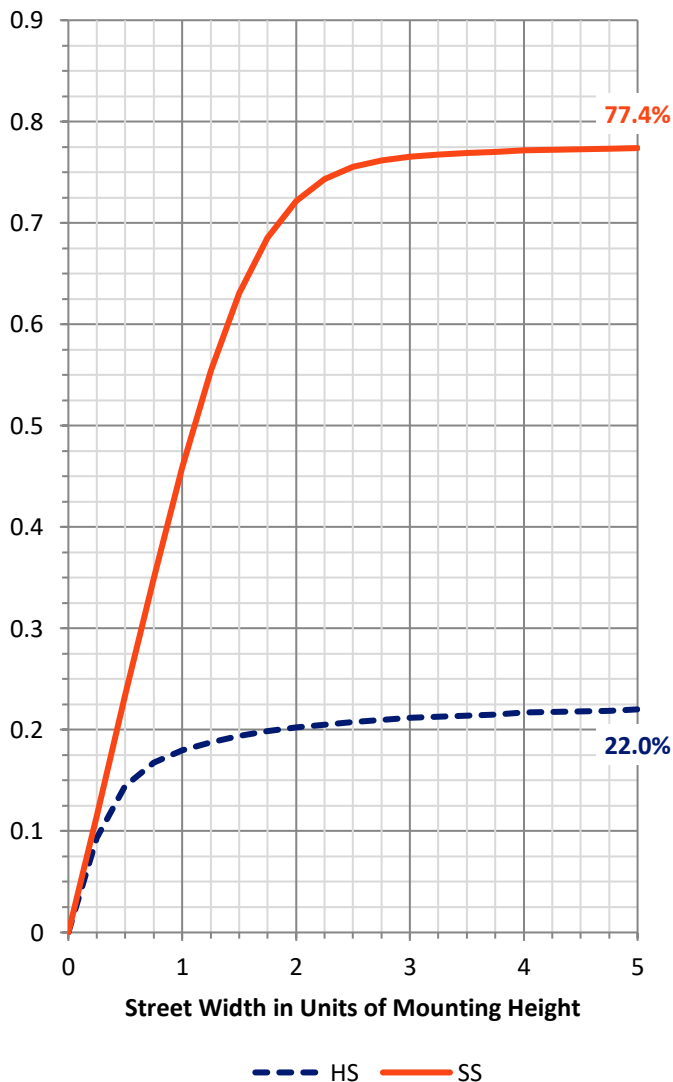
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5160.5	0.0	5160.5
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	17849.8	0.0	17849.8
	% Fixture	77.6	0.0	77.6
Total	Lumens	23010.2	0.0	23010.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.7	1.2
10°-20°	888.7	3.9
20°-30°	1582.4	6.9
30°-40°	2369.6	10.3
40°-50°	3510.9	15.3
50°-60°	5409.8	23.5
60°-70°	6124.5	26.6
70°-80°	2541.8	11.0
80°-90°	308.8	1.3
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°	23010.2	100.0
0°-180°	23010.2	100.0

Coefficient of Utilization

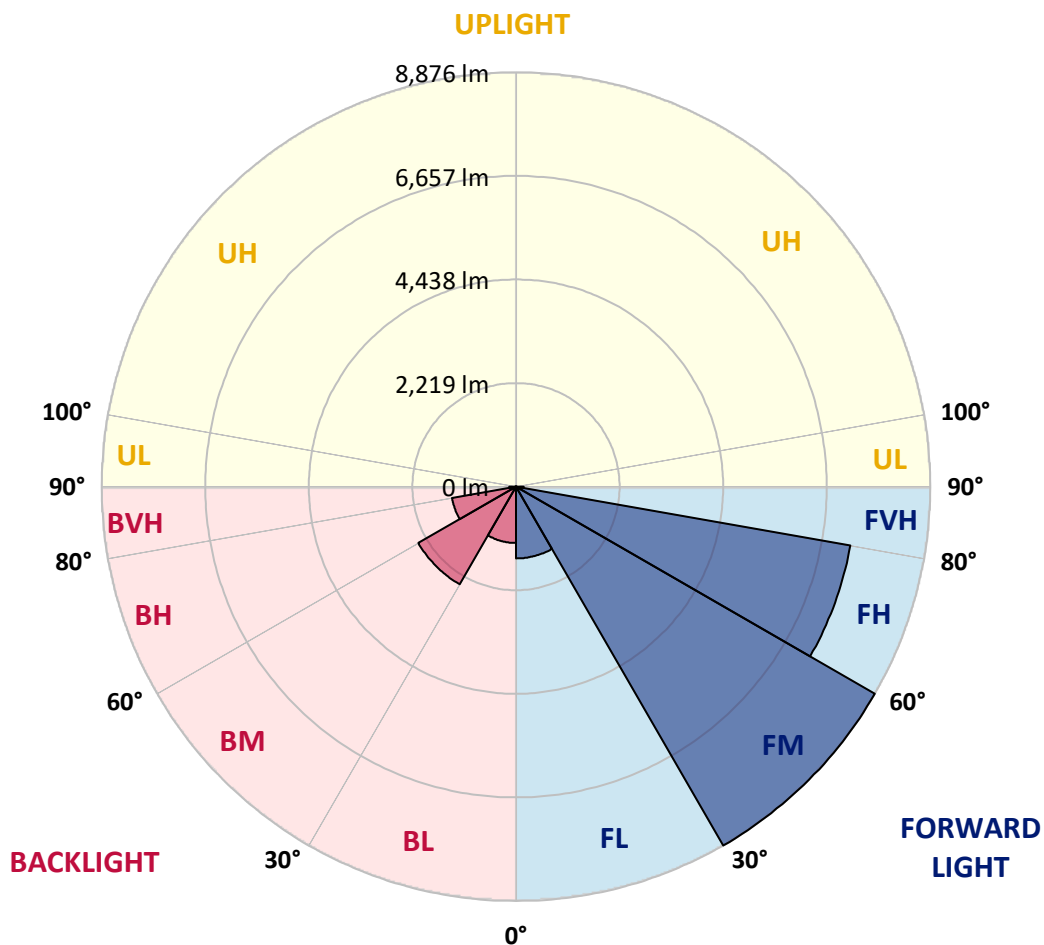


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1537.8	6.7			
FM (30°-60°)	8876.3	38.6			
FH (60°-80°)	7272.8	31.6			G3/7500
FVH (80°-90°)	162.9	0.7			G2/225
BL (0°-30°)	1207.1	5.2	B3/2500		
BM (30°-60°)	2414.0	10.5	B2/2500		
BH (60°-80°)	1393.5	6.1	B3/2500		G3/2500
BVH (80°-90°)	145.9	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	2761.9	2761.9	2761.9	2761.9	2761.9	2761.9	2761.9	2761.9	2761.9	2761.9
2.5°	2689.6	2704.1	2694.5	2723.4	2747.4	2747.4	2766.7	2752.3	2771.5	2798.0
5°	2778.7	2720.9	2752.3	2766.7	2759.5	2771.5	2752.3	2800.4	2769.1	2819.7
7.5°	2800.4	2822.1	2848.6	2824.5	2846.2	2834.1	2836.5	2829.3	2812.4	2853.4
10°	2959.3	2928.0	2988.2	2952.1	2947.3	2942.5	2932.8	2896.7	2937.7	2940.1
12.5°	3142.3	3113.4	3111.0	3082.1	3120.7	3050.8	3065.3	3046.0	3053.2	3062.9
15°	3274.8	3262.7	3318.1	3284.4	3233.8	3202.5	3236.2	3183.3	3209.8	3204.9
17.5°	3537.2	3534.8	3493.9	3438.5	3409.6	3363.9	3356.6	3335.0	3354.2	3344.6
20°	3720.2	3746.7	3753.9	3688.9	3578.2	3527.6	3515.6	3498.7	3520.4	3513.2
22.5°	3999.6	3958.6	3989.9	3876.8	3835.8	3715.4	3672.1	3648.0	3751.5	3725.1
25°	4177.7	4221.1	4189.8	4151.3	4059.8	3910.5	3879.2	3932.1	3973.1	3944.2
27.5°	4579.9	4536.5	4507.6	4392.0	4331.8	4175.3	4139.2	4119.9	4129.6	4146.4
30°	4885.7	4909.7	4844.7	4762.9	4611.2	4452.2	4368.0	4351.1	4317.4	4288.5
32.5°	5321.5	5285.4	5246.9	5193.9	5063.9	4854.4	4772.5	4709.9	4608.8	4473.9
35°	5531.0	5634.5	5605.6	5463.6	5364.8	5285.4	5261.3	5165.0	5080.7	4868.8
37.5°	5880.1	5923.5	5882.5	5836.8	5791.0	5706.8	5677.9	5704.4	5538.2	5189.1
40°	6106.5	6198.0	6282.3	6154.6	6145.0	6161.9	5983.7	5952.4	5610.5	5427.5
42.5°	6568.8	6607.3	6624.2	6619.4	6674.8	6674.8	6335.2	6267.8	6024.6	5875.3
45°	7180.4	7211.7	7271.9	7315.3	7252.7	7284.0	6800.0	6773.5	6556.8	6527.9
47.5°	7710.2	7784.8	7919.6	8047.3	8129.1	8023.2	7493.4	7305.6	7250.2	7423.6
50°	8172.5	8083.4	8398.8	8528.9	8887.6	9063.4	8259.2	8184.5	8095.4	8427.7
52.5°	8218.2	8338.6	8784.1	9044.1	9783.4	10108.4	9198.3	9166.9	9058.6	9441.5
55°	8545.7	8531.3	8979.1	9542.6	10421.5	10968.1	10421.5	10402.2	10166.2	10529.8
57.5°	8490.3	8637.2	8991.2	9778.6	10997.0	11890.3	11839.7	11707.3	11377.4	11673.6
60°	8302.5	8341.0	8772.1	9771.3	11331.7	12836.6	13371.2	13397.7	12723.4	12959.4
62.5°	7238.2	7327.3	7873.9	9003.2	11093.3	13489.2	14866.5	14772.6	14233.2	13963.5
65°	5757.3	5668.2	6236.5	7457.3	9610.0	13026.8	15521.4	15870.6	15023.0	14529.4
67.5°	3530.0	3508.3	4054.9	5131.3	7190.0	11086.1	14998.9	15271.0	14803.9	14409.0
70°	1818.0	1762.6	2104.5	2863.0	4519.7	8134.0	13053.3	13320.6	13766.1	12923.3
72.5°	847.6	835.5	1018.5	1408.6	2302.0	4782.1	10108.4	10301.1	11240.2	10895.8
75°	498.4	505.7	609.2	736.8	1122.1	2253.8	6708.5	7081.7	8100.2	7852.2
77.5°	373.2	373.2	433.4	512.9	655.0	871.7	3310.9	3804.5	4736.4	4259.6
80°	274.5	279.3	332.3	385.3	455.1	450.3	1314.7	1541.1	2171.9	1856.5
82.5°	214.3	221.5	257.6	286.5	320.3	272.1	539.4	580.3	893.3	710.3
85°	149.3	154.1	202.3	195.0	195.0	151.7	223.9	236.0	354.0	337.1
87.5°	36.1	40.9	98.7	108.4	81.9	45.8	69.8	79.5	127.6	146.9
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°
2761.9	0°	2761.9	2761.9	2761.9	2761.9	2761.9	2761.9	2761.9	2761.9	2761.9	2761.9
2810.0	2.5°	2773.9	2783.6	2824.5	2802.8	2814.9	2764.3	2805.2	2771.5	2800.4	2786.0
2831.7	5°	2851.0	2829.3	2853.4	2836.5	2836.5	2855.8	2884.7	2863.0	2906.4	2887.1
2848.6	7.5°	2882.3	2884.7	2899.1	2901.5	2889.5	2949.7	2952.1	2944.9	2985.8	2976.2
2964.1	10°	2959.3	2961.7	2988.2	3002.7	2990.6	3012.3	2988.2	2969.0	2966.6	2956.9
3055.6	12.5°	3082.1	3106.2	3101.4	3113.4	3115.8	3024.3	2969.0	2875.1	2863.0	2875.1
3190.5	15°	3195.3	3185.7	3190.5	3214.6	3113.4	2966.6	2867.8	2788.4	2793.2	2795.6
3366.3	17.5°	3330.2	3337.4	3344.6	3233.8	3048.4	2875.1	2788.4	2788.4	2764.3	2773.9
3489.1	20°	3484.3	3455.4	3392.8	3236.2	2935.3	2769.1	2742.6	2742.6	2713.7	2694.5
3621.5	22.5°	3604.7	3546.9	3453.0	3161.6	2834.1	2728.2	2663.2	2617.4	2583.7	2545.2
3768.4	25°	3681.7	3650.4	3467.4	3084.5	2759.5	2619.8	2523.5	2453.7	2410.3	2359.8
3884.0	27.5°	3799.7	3739.5	3508.3	2995.5	2677.6	2511.5	2362.2	2253.8	2171.9	2119.0
4059.8	30°	3958.6	3871.9	3479.4	2867.8	2552.4	2323.6	2147.9	2008.2	1914.3	1871.0
4225.9	32.5°	4088.6	3975.5	3455.4	2752.3	2412.7	2133.4	1899.8	1757.8	1704.8	1649.4
4505.2	35°	4336.7	4112.7	3438.5	2687.2	2287.5	1943.2	1697.6	1574.8	1507.4	1425.5
4671.4	37.5°	4526.9	4351.1	3397.6	2552.4	2126.2	1757.8	1543.5	1432.7	1331.6	1244.9
5056.6	40°	4825.5	4683.4	3400.0	2362.2	1936.0	1598.9	1423.1	1307.5	1179.9	1105.2
5627.3	42.5°	5386.5	5010.9	3414.4	2210.5	1721.7	1468.8	1314.7	1177.5	1049.9	987.2
6277.4	45°	6075.2	5461.2	3325.3	2073.2	1502.5	1346.0	1184.7	1047.4	965.6	919.8
7161.2	47.5°	6867.4	5901.8	3204.9	1815.6	1319.5	1216.0	1064.3	984.8	924.6	898.2
8300.1	50°	7753.5	6532.7	3171.2	1579.6	1177.5	1105.2	1006.5	946.3	905.4	874.1
9583.5	52.5°	8894.9	7267.1	3103.8	1336.4	1054.7	1016.1	984.8	943.9	907.8	881.3
10780.3	55°	9985.6	8081.0	3031.6	1136.5	968.0	972.8	989.7	953.5	922.2	881.3
12121.5	57.5°	11213.7	8911.7	2764.3	989.7	903.0	951.1	984.8	943.9	912.6	881.3
13494.0	60°	11972.2	9378.8	2241.8	862.0	845.2	910.2	955.9	912.6	878.9	890.9
14124.9	62.5°	12280.4	9133.2	1690.4	782.6	804.2	854.8	910.2	893.3	869.3	915.0
14117.6	65°	11755.5	8567.4	1208.8	715.2	748.9	799.4	869.3	888.5	895.7	984.8
12966.6	67.5°	10460.0	7459.7	888.5	659.8	691.1	765.7	898.2	929.5	924.6	1035.4
10881.4	70°	8369.9	5834.4	693.5	614.0	669.4	792.2	939.1	939.1	905.4	1035.4
8300.1	72.5°	6089.6	4112.7	597.2	561.0	614.0	727.2	934.3	931.9	888.5	946.3
5285.4	75°	3686.5	2393.5	527.3	508.1	527.3	623.7	893.3	878.9	818.7	813.9
2542.8	77.5°	1837.2	1204.0	431.0	450.3	459.9	522.5	785.0	806.7	724.8	705.5
1004.1	80°	775.4	524.9	358.8	387.7	387.7	440.6	652.5	667.0	602.0	565.9
397.3	82.5°	354.0	301.0	305.8	337.1	315.4	341.9	517.7	534.6	488.8	428.6
168.6	85°	149.3	171.0	233.6	264.9	233.6	221.5	356.4	375.6	317.8	264.9
72.2	87.5°	67.4	93.9	146.9	192.6	118.0	103.5	190.2	197.4	158.9	118.0
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>
2761.9
2759.5
2860.6
2961.7
2956.9
2879.9
2829.3
2776.3
2665.6
2523.5
2369.4
2143.0
1895.0
1647.0
1418.3
1247.3
1112.5
992.1
929.5
893.3
878.9
878.9
878.9
878.9
881.3
903.0
984.8
1042.6
1013.7
912.6
804.2
693.5
553.8
419.0
267.3
110.8
0.0

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