

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: P477937

Luminaire Tested: **IFLD-S-SA6A-830-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477937
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-830-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

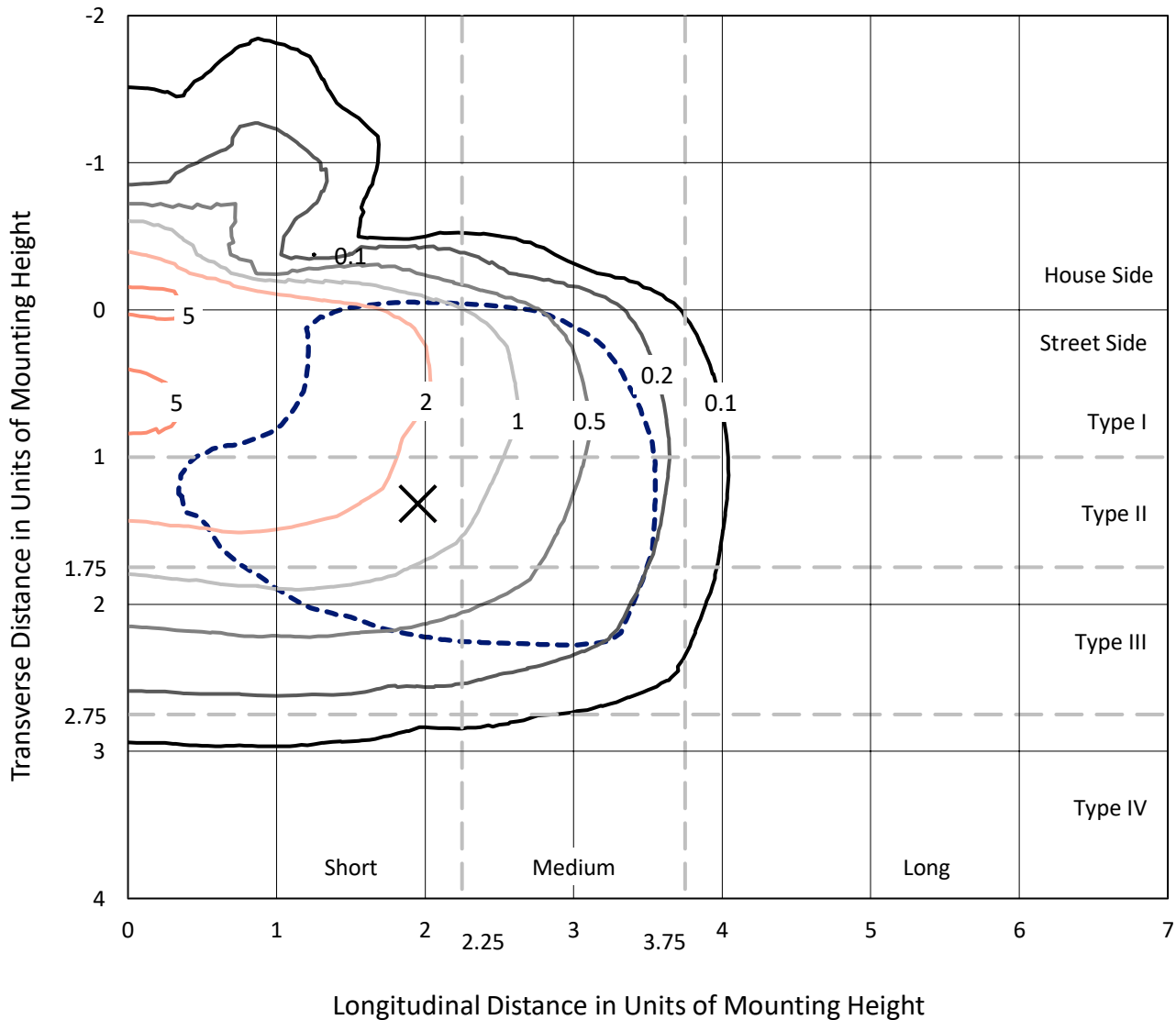
Lumens per Lamp: N/A
Luminaire Lumens: 21066.6 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

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

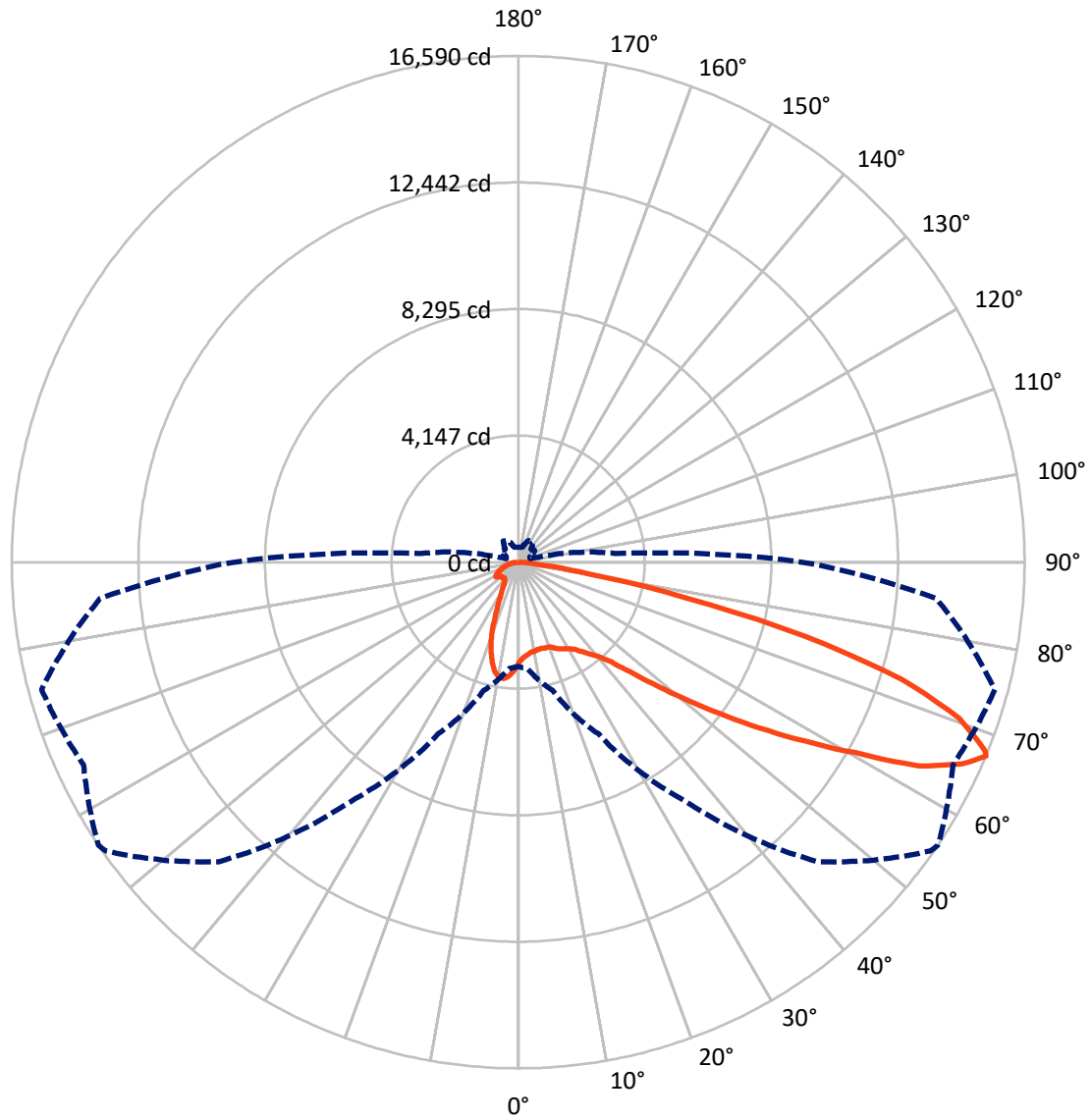
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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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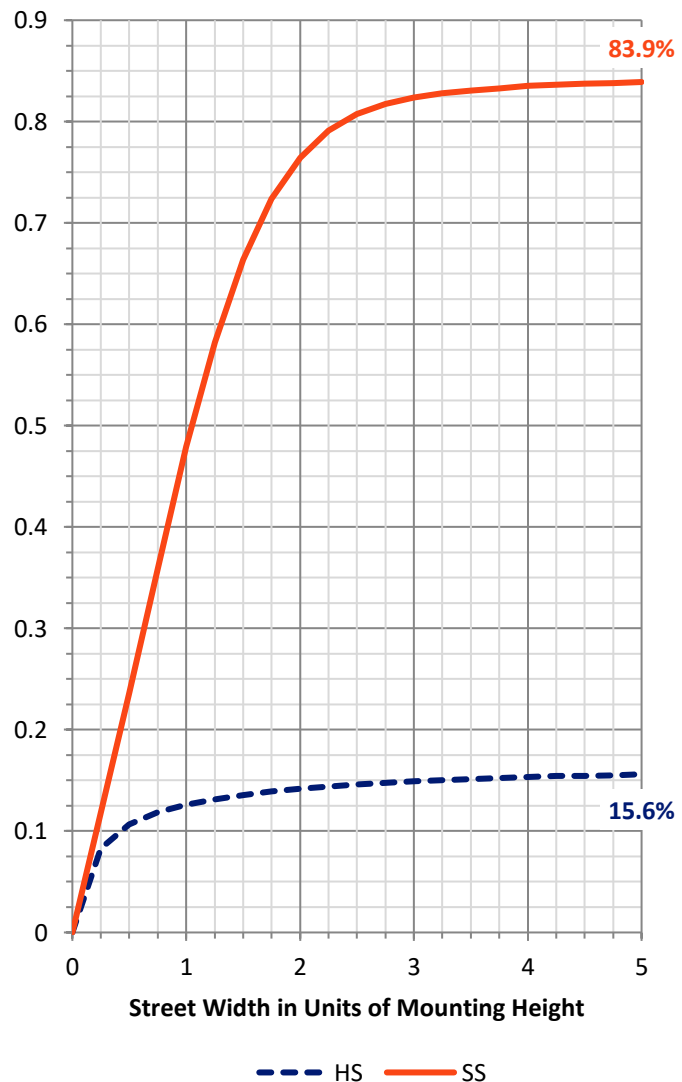
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3335.1	0.0	3335.1
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	17731.5	0.0	17731.5
	% Fixture	84.2	0.0	84.2
Total	Lumens	21066.6	0.0	21066.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.8	1.5
10°-20°	861.5	4.1
20°-30°	1351.1	6.4
30°-40°	1928.7	9.2
40°-50°	2911.0	13.8
50°-60°	4633.7	22.0
60°-70°	5923.9	28.1
70°-80°	2888.3	13.7
80°-90°	252.7	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°	21066.6	100.0
0°-180°	21066.6	100.0

Coefficient of Utilization

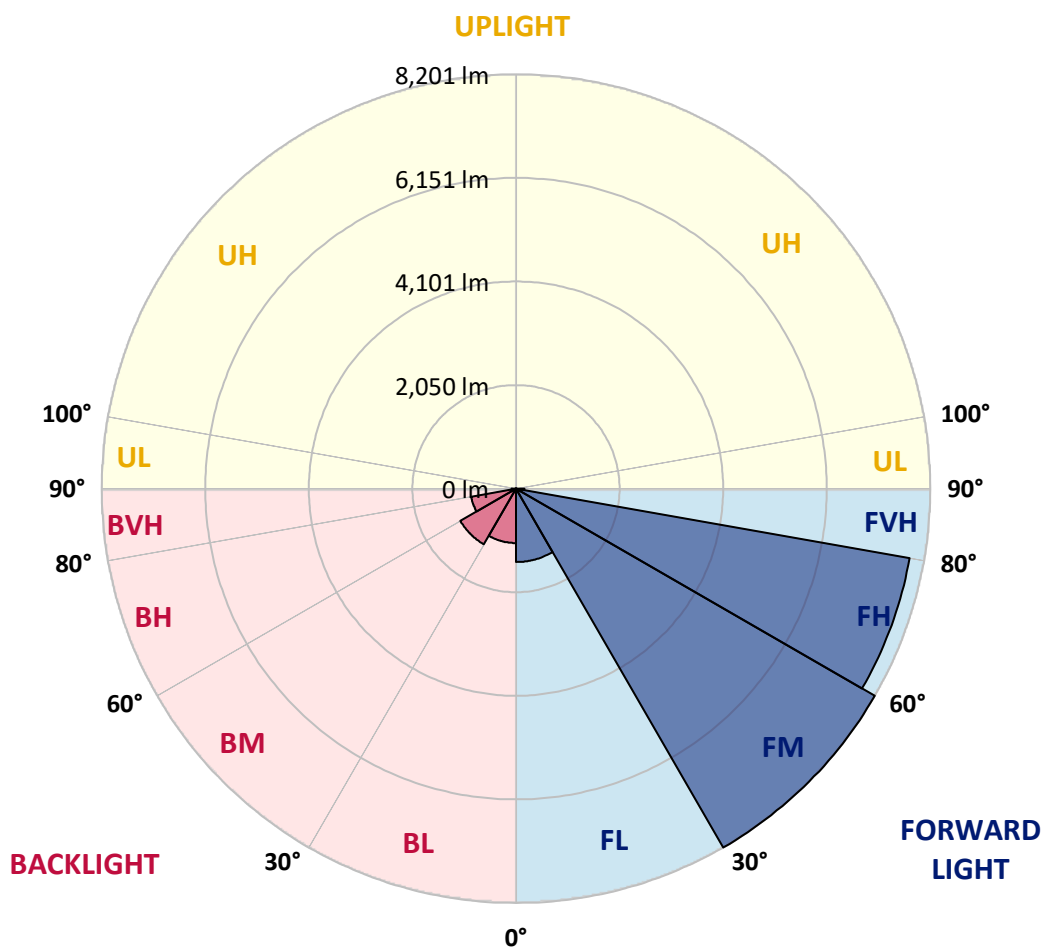


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1451.7	6.9			
FM (30°-60°)	8201.0	38.9			
FH (60°-80°)	7910.9	37.6			G4/12000
FVH (80°-90°)	167.8	0.8			G2/225
BL (0°-30°)	1076.6	5.1	B3/2500		
BM (30°-60°)	1272.4	6.0	B2/2500		
BH (60°-80°)	901.2	4.3	B2/1000		G2/1000
BVH (80°-90°)	84.9	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°	3277.9	3277.9	3277.9	3277.9	3277.9	3277.9	3277.9	3277.9	3277.9	3277.9
2.5°	3011.1	2998.8	3013.6	2998.8	3065.5	3105.0	3117.3	3134.6	3196.4	3255.7
5°	2885.1	2830.8	2890.1	2909.8	2914.8	2981.5	3050.6	3063.0	3095.1	3191.4
7.5°	2675.2	2736.9	2714.7	2774.0	2835.7	2902.4	3016.1	2983.9	3102.5	3193.9
10°	2630.7	2635.7	2660.4	2682.6	2736.9	2823.4	2981.5	2961.7	3082.8	3277.9
12.5°	2675.2	2675.2	2667.8	2650.5	2712.2	2796.2	2922.2	2932.1	3122.3	3302.6
15°	2830.8	2860.4	2781.4	2793.7	2769.0	2796.2	2907.4	2929.6	3137.1	3322.4
17.5°	3211.2	3201.3	3107.5	2976.5	2867.9	2850.6	2927.1	2951.8	3122.3	3379.2
20°	3581.7	3562.0	3398.9	3263.1	3048.2	2946.9	2959.2	2961.7	3147.0	3416.2
22.5°	3994.2	4046.1	3868.3	3591.6	3324.8	3072.9	3023.5	3063.0	3203.8	3436.0
25°	4641.4	4530.3	4377.1	4014.0	3584.2	3268.0	3129.7	3149.4	3258.1	3485.4
27.5°	5108.3	5063.8	4824.2	4530.3	3947.3	3421.2	3186.5	3223.6	3356.9	3482.9
30°	5557.9	5557.9	5412.1	4972.4	4330.2	3678.1	3307.5	3290.2	3310.0	3478.0
32.5°	6084.0	6012.4	5802.4	5510.9	4811.9	3912.7	3403.9	3408.8	3408.8	3569.4
35°	6360.7	6476.8	6336.0	5861.7	5179.9	4303.0	3636.1	3599.0	3571.8	3670.7
37.5°	6765.8	6834.9	6686.7	6407.6	5636.9	4619.2	3841.1	3811.5	3653.4	3749.7
40°	7010.3	6998.0	6993.0	6864.6	6242.1	4992.2	4142.5	4065.9	3853.4	4028.8
42.5°	7148.6	7123.9	7427.8	7348.7	6812.7	5540.6	4520.4	4478.4	4243.7	4525.3
45°	7304.3	7487.0	7736.5	7958.8	7477.2	6311.3	5160.2	5100.9	4890.9	5249.1
47.5°	7440.1	7664.9	7983.5	8220.7	8077.4	7148.6	5950.6	5965.4	5827.1	6195.2
50°	7667.4	7689.6	8121.9	8601.1	8712.2	7921.8	7012.8	6988.1	6926.3	7442.6
52.5°	7598.2	7664.9	8210.8	8823.4	9006.2	8739.4	8154.0	8228.1	8146.6	8796.2
55°	6471.8	6671.9	8156.5	9058.1	9702.8	9663.3	9621.3	9571.9	9566.9	10317.8
57.5°	5960.5	6123.5	7185.7	9317.4	10448.8	10740.2	11012.0	11066.3	11063.8	11970.4
60°	5624.5	5792.5	6792.9	9176.6	11083.6	12150.7	12671.9	12679.3	12664.5	13736.5
62.5°	4967.5	5130.5	6113.6	8405.9	11259.0	13452.5	14613.4	14709.8	14030.5	15258.2
65°	4177.0	4310.4	5177.4	7227.7	10792.1	14280.0	16073.3	15959.7	15181.6	16127.7
67°	3416.2	3505.2	4349.9	6205.0	9571.9	13882.3	16495.7	16589.6	15712.7	16164.7
67.5°	3198.9	3280.4	4078.2	5856.7	9107.5	13580.9	16510.5	16495.7	15722.5	16172.1
70°	2220.7	2255.3	2778.9	4028.8	6708.9	11473.9	15305.1	15339.7	15063.0	15295.2
72.5°	1472.2	1524.1	1857.6	2539.3	3954.7	8349.1	12792.9	13163.5	12988.1	12541.0
75°	948.5	978.2	1215.3	1511.7	1946.5	4755.1	9450.8	9697.8	9295.2	7756.3
77.5°	531.1	563.2	733.6	918.9	948.5	1978.6	5308.4	5614.7	4757.5	3295.2
80°	331.0	373.0	553.3	545.9	452.0	726.2	2188.6	2344.2	1902.0	1133.8
82.5°	249.5	281.6	427.3	382.9	254.4	323.6	820.1	879.4	696.6	437.2
85°	170.4	214.9	308.8	237.1	133.4	155.6	326.1	350.8	318.7	212.4
87.5°	61.8	91.4	160.6	118.6	59.3	46.9	106.2	118.6	113.6	96.3
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°
3277.9	0°	3277.9	3277.9	3277.9	3277.9	3277.9	3277.9	3277.9	3277.9	3277.9	3277.9
3307.5	2.5°	3354.5	3389.1	3406.3	3507.6	3549.6	3542.2	3552.1	3566.9	3581.7	3601.5
3349.5	5°	3381.6	3487.9	3544.7	3663.2	3742.3	3707.7	3752.2	3739.8	3722.5	3720.1
3426.1	7.5°	3470.6	3606.4	3776.9	3809.0	3843.6	3757.1	3683.0	3581.7	3557.0	3470.6
3490.3	10°	3628.7	3739.8	3947.3	3959.7	3806.5	3584.2	3418.7	3208.7	3206.3	3080.3
3589.1	12.5°	3779.3	3905.3	4073.3	4001.7	3636.1	3332.2	3063.0	2833.3	2736.9	2672.7
3648.4	15°	3873.2	4080.7	4169.6	3860.9	3337.2	2927.1	2578.8	2331.8	2233.0	2186.1
3722.5	17.5°	3959.7	4248.7	4209.1	3613.8	2969.1	2509.7	2094.7	1879.8	1852.6	1818.0
3841.1	20°	4078.2	4310.4	4068.3	3292.7	2551.7	1971.2	1706.9	1603.1	1627.8	1642.7
3853.4	22.5°	4189.4	4342.5	3890.5	2942.0	2015.6	1561.1	1430.2	1452.5	1489.5	1538.9
3883.1	25°	4238.8	4394.4	3650.9	2457.8	1534.0	1314.1	1284.5	1321.5	1383.3	1385.8
3925.1	27.5°	4270.9	4357.4	3361.9	1986.0	1212.8	1148.6	1193.1	1220.3	1227.7	1257.3
4014.0	30°	4327.7	4280.8	2996.3	1420.3	1017.7	1020.2	1077.0	1077.0	1077.0	1099.2
4102.9	32.5°	4426.5	4228.9	2569.0	1037.5	876.9	956.0	941.1	936.2	926.3	899.1
4216.6	35°	4488.3	4088.1	2028.0	768.2	788.0	876.9	872.0	795.4	666.9	602.7
4505.6	37.5°	4616.7	4016.5	1492.0	592.8	736.1	837.4	810.2	624.9	484.2	422.4
4863.7	40°	4893.4	3969.5	1032.5	518.7	701.5	817.6	723.8	533.6	370.5	261.8
5417.1	42.5°	5231.8	3972.0	701.5	489.1	704.0	859.6	696.6	457.0	261.8	210.0
6155.6	45°	5686.3	3935.0	481.7	489.1	748.5	928.8	713.9	415.0	254.4	266.8
7081.9	47.5°	6175.4	3967.1	358.2	444.6	755.9	931.2	652.1	407.6	244.5	308.8
8089.8	50°	6746.0	3999.2	296.4	410.0	758.3	901.6	600.2	397.7	254.4	326.1
9245.8	52.5°	7333.9	4100.5	252.0	387.8	788.0	889.3	600.2	412.5	254.4	284.1
10718.0	55°	8210.8	4359.8	363.1	484.2	896.7	970.8	738.6	578.0	355.7	365.6
12128.5	57.5°	9179.1	4626.6	405.1	508.9	921.4	874.4	795.4	637.3	375.5	377.9
13225.2	60°	9816.4	4636.5	402.6	496.5	862.1	755.9	778.1	671.9	382.9	323.6
13904.5	62.5°	10070.8	4335.1	419.9	496.5	802.8	706.5	797.9	723.8	395.2	405.1
14097.2	65°	9781.8	3712.6	405.1	444.6	706.5	632.4	802.8	733.6	432.3	407.6
13751.4	67°	9329.8	3198.9	412.5	422.4	657.1	600.2	844.8	770.7	501.4	489.1
13571.0	67.5°	9201.3	3063.0	410.0	410.0	639.8	590.4	854.7	770.7	511.3	506.4
11977.8	70°	8109.5	2482.5	419.9	405.1	565.7	560.7	909.0	812.7	587.9	592.8
8798.7	72.5°	6172.9	1882.3	417.5	405.1	491.6	536.0	916.4	839.9	639.8	592.8
4928.0	75°	3507.6	1126.4	368.1	353.2	387.8	466.9	857.1	800.3	622.5	531.1
1968.7	77.5°	1450.0	580.5	338.4	318.7	321.1	380.4	713.9	746.0	592.8	452.0
657.1	80°	541.0	348.3	271.7	254.4	247.0	279.1	508.9	595.3	506.4	370.5
289.0	82.5°	281.6	217.4	185.3	185.3	168.0	177.9	274.2	395.2	382.9	254.4
116.1	85°	143.3	123.5	106.2	103.7	93.9	84.0	138.3	234.7	219.8	140.8
51.9	87.5°	76.6	69.2	44.5	42.0	34.6	22.2	24.7	46.9	76.6	61.8
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°
3277.9
3621.2
3742.3
3500.2
3075.3
2657.9
2176.2
1835.3
1625.4
1511.7
1410.5
1284.5
1123.9
884.3
632.4
419.9
254.4
205.0
271.7
343.4
377.9
291.5
385.3
365.6
333.5
410.0
400.2
481.7
496.5
548.4
526.1
474.3
427.3
338.4
200.1
116.1
44.5
0.0

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