

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: P477235

Luminaire Tested: **IFLD-S-SA6A-722-U-T3**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477235  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6A-722-U-T3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens  
Light Source: (96) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

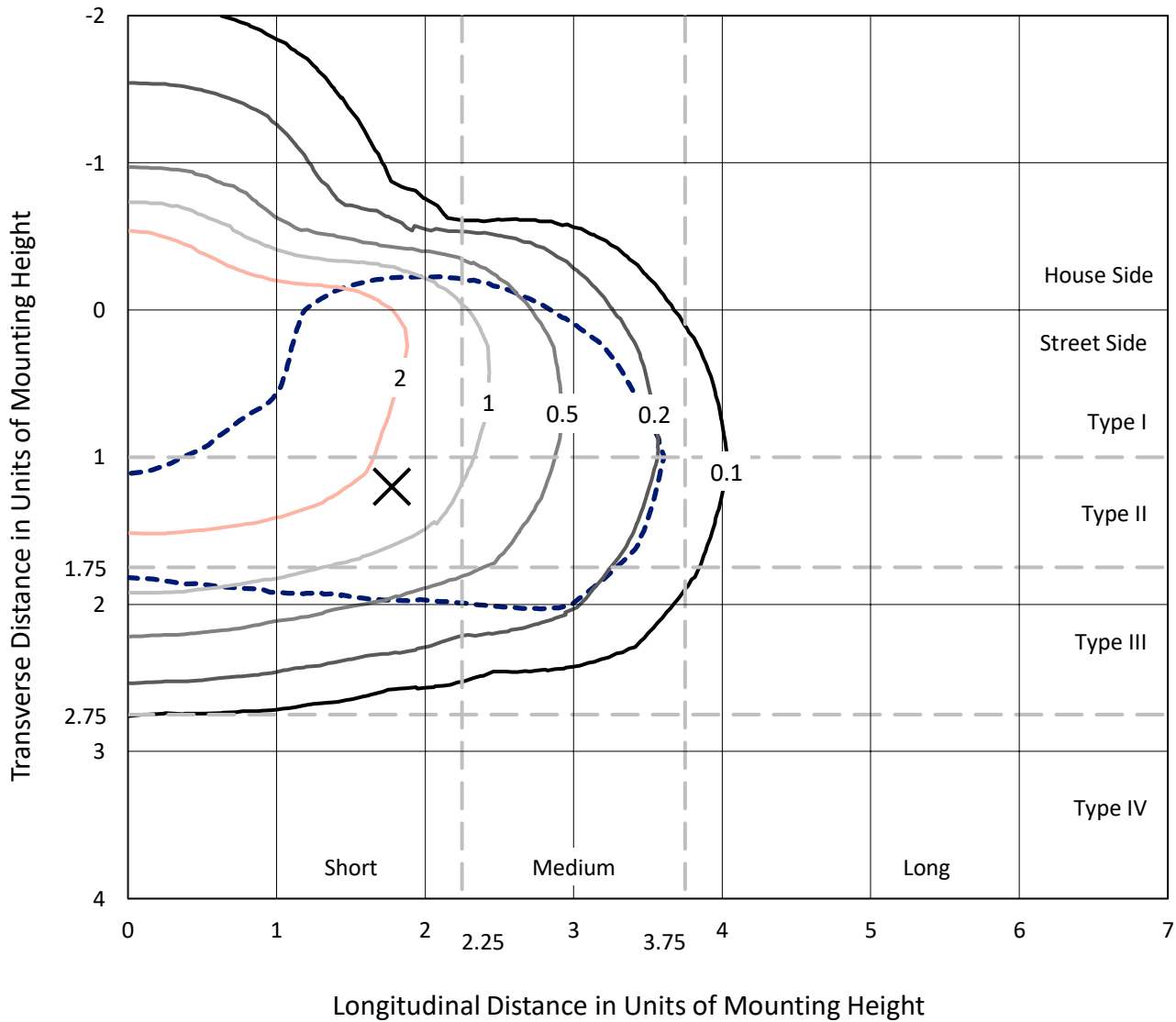
Lumens per Lamp: N/A  
Luminaire Lumens: 20249 lumens  
Efficiency: N/A  
Efficacy: 106.8 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 189.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

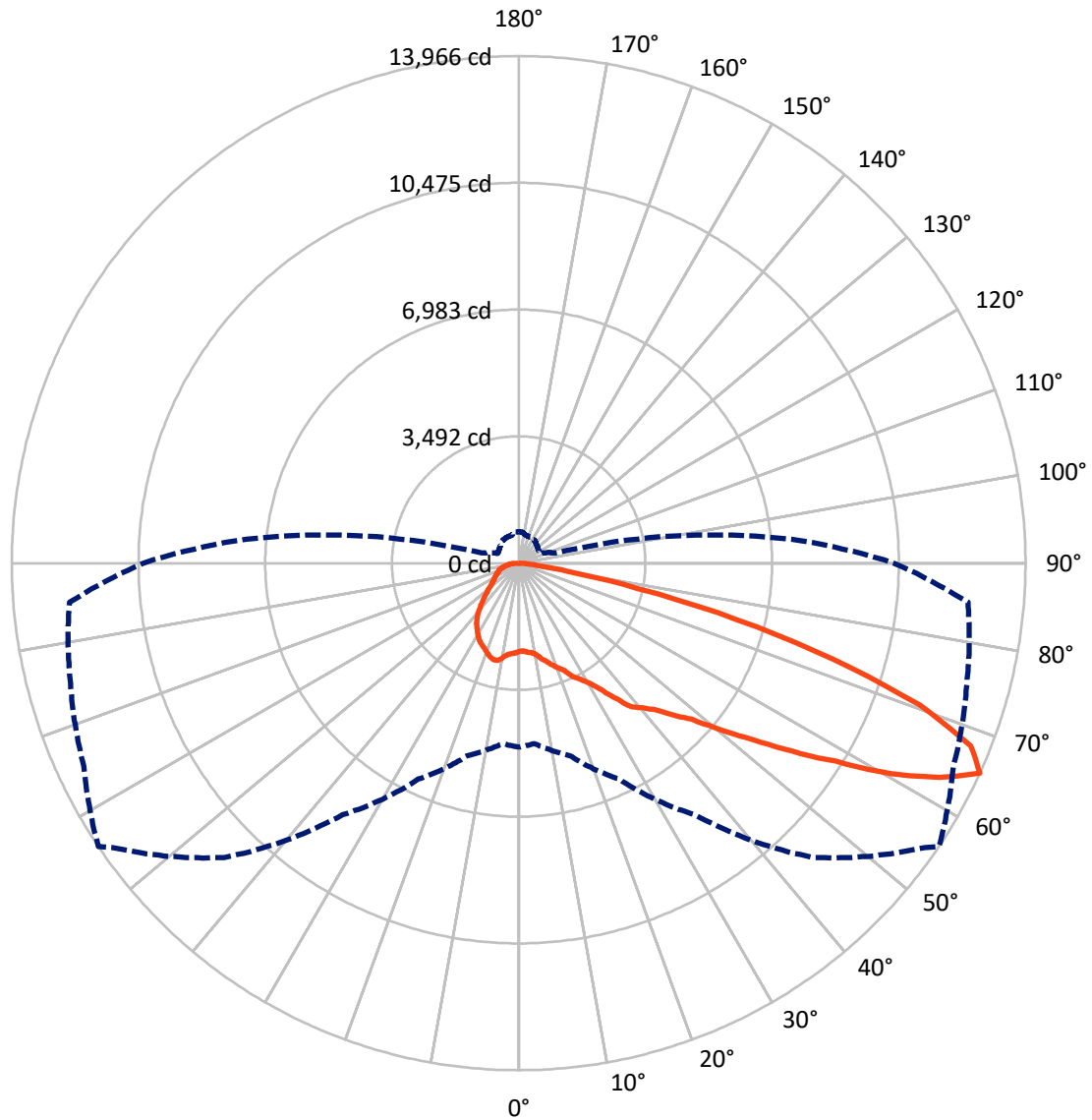
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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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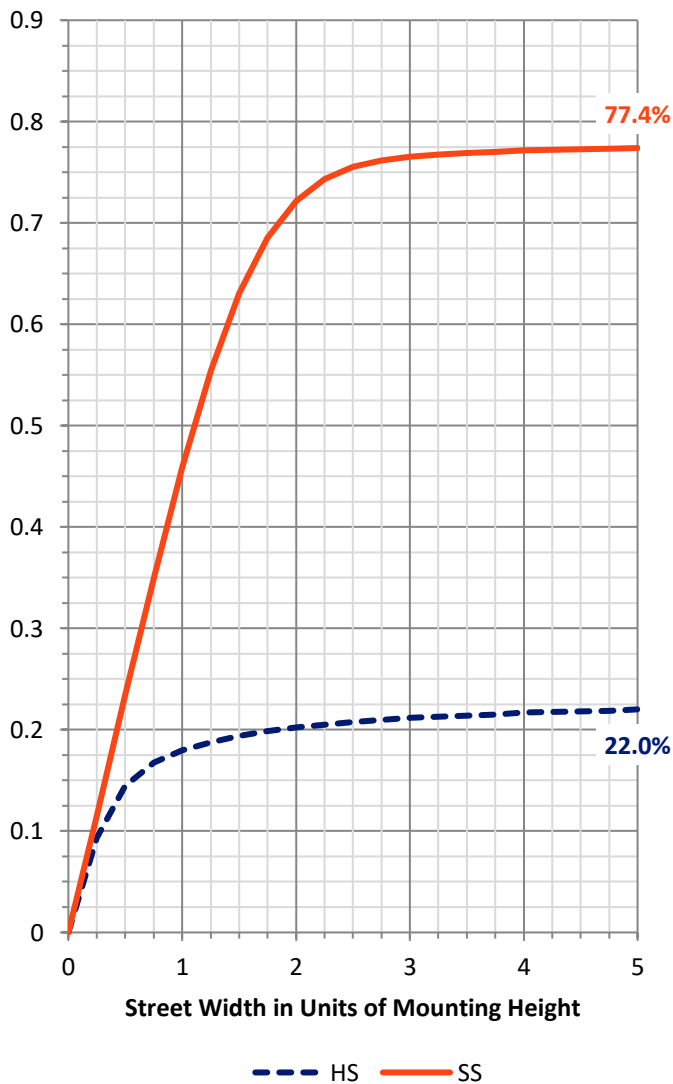
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4541.2	0.0	4541.2
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	15707.8	0.0	15707.8
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	20249.0	0.0	20249.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	240.8	1.2
10°-20°	782.1	3.9
20°-30°	1392.5	6.9
30°-40°	2085.3	10.3
40°-50°	3089.6	15.3
50°-60°	4760.6	23.5
60°-70°	5389.6	26.6
70°-80°	2236.7	11.0
80°-90°	271.7	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°	20249.0	100.0
0°-180°	20249.0	100.0

**Coefficient of Utilization**



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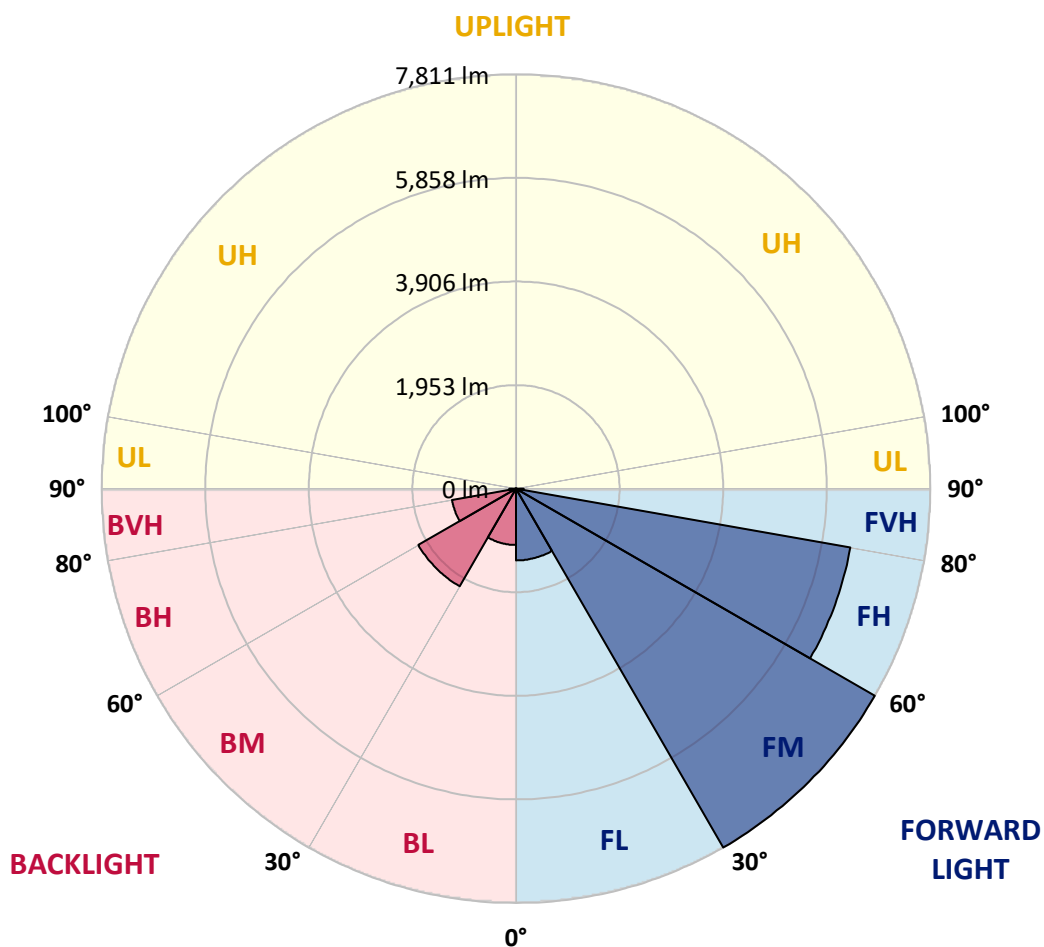
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1353.2	6.7			
FM (30°-60°)	7811.2	38.6			
FH (60°-80°)	6400.1	31.6			G3/7500
FVH (80°-90°)	143.3	0.7			G2/225
BL (0°-30°)	1062.2	5.2	B3/2500		
BM (30°-60°)	2124.3	10.5	B2/2500		
BH (60°-80°)	1226.3	6.1	B3/2500		G3/2500
BVH (80°-90°)	128.4	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°	2430.5	2430.5	2430.5	2430.5	2430.5	2430.5	2430.5	2430.5	2430.5	2430.5
2.5°	2366.9	2379.6	2371.1	2396.6	2417.7	2417.7	2434.7	2422.0	2438.9	2462.2
5°	2445.3	2394.4	2422.0	2434.7	2428.3	2438.9	2422.0	2464.4	2436.8	2481.3
7.5°	2464.4	2483.4	2506.7	2485.5	2504.6	2494.0	2496.1	2489.8	2475.0	2511.0
10°	2604.2	2576.7	2629.6	2597.9	2593.6	2589.4	2580.9	2549.1	2585.1	2587.3
12.5°	2765.3	2739.8	2737.7	2712.3	2746.2	2684.7	2697.4	2680.5	2686.9	2695.3
15°	2881.8	2871.2	2919.9	2890.3	2845.8	2818.2	2847.9	2801.3	2824.6	2820.3
17.5°	3112.8	3110.6	3074.6	3025.9	3000.5	2960.2	2953.8	2934.8	2951.7	2943.2
20°	3273.8	3297.1	3303.5	3246.3	3148.8	3104.3	3093.7	3078.9	3097.9	3091.6
22.5°	3519.6	3483.6	3511.1	3411.5	3375.5	3269.6	3231.4	3210.2	3301.4	3278.0
25°	3676.4	3714.6	3687.0	3653.1	3572.6	3441.2	3413.7	3460.3	3496.3	3470.9
27.5°	4030.3	3992.1	3966.7	3865.0	3812.0	3674.3	3642.5	3625.6	3634.0	3648.9
30°	4299.4	4320.6	4263.4	4191.3	4057.8	3918.0	3843.8	3829.0	3799.3	3773.9
32.5°	4682.9	4651.1	4617.2	4570.6	4456.2	4271.8	4199.8	4144.7	4055.7	3937.0
35°	4867.3	4958.4	4933.0	4807.9	4721.1	4651.1	4629.9	4545.2	4471.0	4284.6
37.5°	5174.5	5212.7	5176.6	5136.4	5096.1	5022.0	4996.5	5019.8	4873.6	4566.4
40°	5373.7	5454.2	5528.4	5416.1	5407.6	5422.4	5265.6	5238.1	4937.2	4776.2
42.5°	5780.5	5814.4	5829.3	5825.0	5873.8	5873.8	5575.0	5515.7	5301.7	5170.3
45°	6318.8	6346.3	6399.3	6437.4	6382.3	6409.9	5984.0	5960.7	5770.0	5744.5
47.5°	6784.9	6850.6	6969.3	7081.6	7153.6	7060.4	6594.2	6428.9	6380.2	6532.8
50°	7191.8	7113.4	7391.0	7505.4	7821.1	7975.8	7268.1	7202.4	7124.0	7416.4
52.5°	7232.0	7338.0	7730.0	7958.8	8609.4	8895.4	8094.5	8066.9	7971.6	8308.5
55°	7520.2	7507.5	7901.6	8397.5	9170.9	9651.9	9170.9	9153.9	8946.3	9266.2
57.5°	7471.5	7600.7	7912.2	8605.1	9677.3	10463.5	10419.0	10302.4	10012.1	10272.8
60°	7306.2	7340.1	7719.4	8598.8	9971.9	11296.2	11766.6	11789.9	11196.6	11404.3
62.5°	6369.6	6448.0	6929.0	7922.8	9762.1	11870.5	13082.5	12999.9	12525.2	12287.9
65°	5066.5	4988.1	5488.1	6562.4	8456.8	11463.6	13658.9	13966.1	13220.2	12785.9
67.5°	3106.4	3087.3	3568.3	4515.5	6327.2	9755.7	13199.1	13438.5	13027.4	12679.9
70°	1599.8	1551.1	1852.0	2519.5	3977.3	7157.9	11486.9	11722.1	12114.1	11372.5
72.5°	745.9	735.3	896.3	1239.6	2025.7	4208.3	8895.4	9064.9	9891.3	9588.3
75°	438.6	445.0	536.1	648.4	987.4	1983.4	5903.4	6231.9	7128.2	6910.0
77.5°	328.4	328.4	381.4	451.3	576.4	767.1	2913.6	3348.0	4168.0	3748.5
80°	241.6	245.8	292.4	339.0	400.5	396.2	1157.0	1356.1	1911.3	1633.7
82.5°	188.6	194.9	226.7	252.2	281.8	239.4	474.6	510.7	786.1	625.1
85°	131.4	135.6	178.0	171.6	171.6	133.5	197.1	207.7	311.5	296.7
87.5°	31.8	36.0	86.9	95.4	72.0	40.3	61.5	69.9	112.3	129.3
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°
2430.5	0°	2430.5	2430.5	2430.5	2430.5	2430.5	2430.5	2430.5	2430.5	2430.5	2430.5
2472.8	2.5°	2441.1	2449.5	2485.5	2466.5	2477.1	2432.6	2468.6	2438.9	2464.4	2451.6
2491.9	5°	2508.9	2489.8	2511.0	2496.1	2496.1	2513.1	2538.5	2519.5	2557.6	2540.6
2506.7	7.5°	2536.4	2538.5	2551.2	2553.4	2542.8	2595.7	2597.9	2591.5	2627.5	2619.0
2608.5	10°	2604.2	2606.3	2629.6	2642.4	2631.8	2650.8	2629.6	2612.7	2610.6	2602.1
2689.0	12.5°	2712.3	2733.5	2729.2	2739.8	2741.9	2661.4	2612.7	2530.0	2519.5	2530.0
2807.6	15°	2811.9	2803.4	2807.6	2828.8	2739.8	2610.6	2523.7	2453.8	2458.0	2460.1
2962.3	17.5°	2930.5	2936.9	2943.2	2845.8	2682.6	2530.0	2453.8	2453.8	2432.6	2441.1
3070.4	20°	3066.1	3040.7	2985.6	2847.9	2583.0	2436.8	2413.5	2413.5	2388.1	2371.1
3186.9	22.5°	3172.1	3121.2	3038.6	2782.2	2494.0	2400.8	2343.6	2303.3	2273.7	2239.7
3316.2	25°	3239.9	3212.4	3051.3	2714.4	2428.3	2305.4	2220.7	2159.2	2121.1	2076.6
3417.9	27.5°	3343.7	3290.8	3087.3	2636.0	2356.3	2210.1	2078.7	1983.4	1911.3	1864.7
3572.6	30°	3483.6	3407.3	3061.9	2523.7	2246.1	2044.8	1890.1	1767.2	1684.6	1646.4
3718.8	32.5°	3598.0	3498.4	3040.7	2422.0	2123.2	1877.4	1671.9	1546.8	1500.2	1451.5
3964.6	35°	3816.3	3619.2	3025.9	2364.8	2013.0	1710.0	1493.9	1385.8	1326.5	1254.4
4110.8	37.5°	3983.7	3829.0	2989.9	2246.1	1871.0	1546.8	1358.3	1260.8	1171.8	1095.5
4449.8	40°	4246.4	4121.4	2992.0	2078.7	1703.7	1407.0	1252.3	1150.6	1038.3	972.6
4952.0	42.5°	4740.1	4409.6	3004.7	1945.2	1515.1	1292.6	1157.0	1036.2	923.9	868.8
5524.2	45°	5346.2	4805.8	2926.3	1824.4	1322.2	1184.5	1042.5	921.8	849.7	809.4
6301.8	47.5°	6043.3	5193.6	2820.3	1597.7	1161.2	1070.1	936.6	866.7	813.7	790.4
7304.1	50°	6823.1	5748.8	2790.7	1390.0	1036.2	972.6	885.7	832.8	796.7	769.2
8433.5	52.5°	7827.5	6395.0	2731.4	1176.0	928.1	894.2	866.7	830.6	798.9	775.5
9486.6	55°	8787.4	7111.3	2667.8	1000.2	851.8	856.1	870.9	839.1	811.6	775.5
10666.9	57.5°	9868.0	7842.3	2432.6	870.9	794.6	837.0	866.7	830.6	803.1	775.5
11874.7	60°	10535.5	8253.4	1972.8	758.6	743.8	801.0	841.2	803.1	773.4	784.0
12429.9	62.5°	10806.7	8037.2	1487.5	688.7	707.7	752.2	801.0	786.1	764.9	805.2
12423.5	65°	10344.8	7539.3	1063.7	629.3	659.0	703.5	764.9	781.9	788.3	866.7
11410.6	67.5°	9204.8	6564.6	781.9	580.6	608.1	673.8	790.4	817.9	813.7	911.2
9575.6	70°	7365.5	5134.3	610.3	540.3	589.1	697.1	826.4	826.4	796.7	911.2
7304.1	72.5°	5358.9	3619.2	525.5	493.7	540.3	639.9	822.2	820.0	781.9	832.8
4651.1	75°	3244.1	2106.3	464.1	447.1	464.1	548.8	786.1	773.4	720.4	716.2
2237.6	77.5°	1616.8	1059.5	379.3	396.2	404.7	459.8	690.8	709.9	637.8	620.9
883.6	80°	682.3	461.9	315.7	341.2	341.2	387.8	574.2	587.0	529.7	498.0
349.6	82.5°	311.5	264.9	269.1	296.7	277.6	300.9	455.6	470.4	430.2	377.2
148.3	85°	131.4	150.4	205.5	233.1	205.5	194.9	313.6	330.6	279.7	233.1
63.6	87.5°	59.3	82.6	129.3	169.5	103.8	91.1	167.4	173.8	139.9	103.8
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





<u>180°</u>
2430.5
2428.3
2517.3
2606.3
2602.1
2534.3
2489.8
2443.2
2345.7
2220.7
2085.1
1885.9
1667.6
1449.4
1248.1
1097.6
979.0
873.0
817.9
786.1
773.4
773.4
773.4
773.4
775.5
794.6
866.7
917.5
892.1
803.1
707.7
610.3
487.4
368.7
235.2
97.5
0.0

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