

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: P477262

Luminaire Tested: **IFLD-S-SA3D-727-U-T3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P477262  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-727-U-T3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3 distribution lens  
Light Source: (48) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

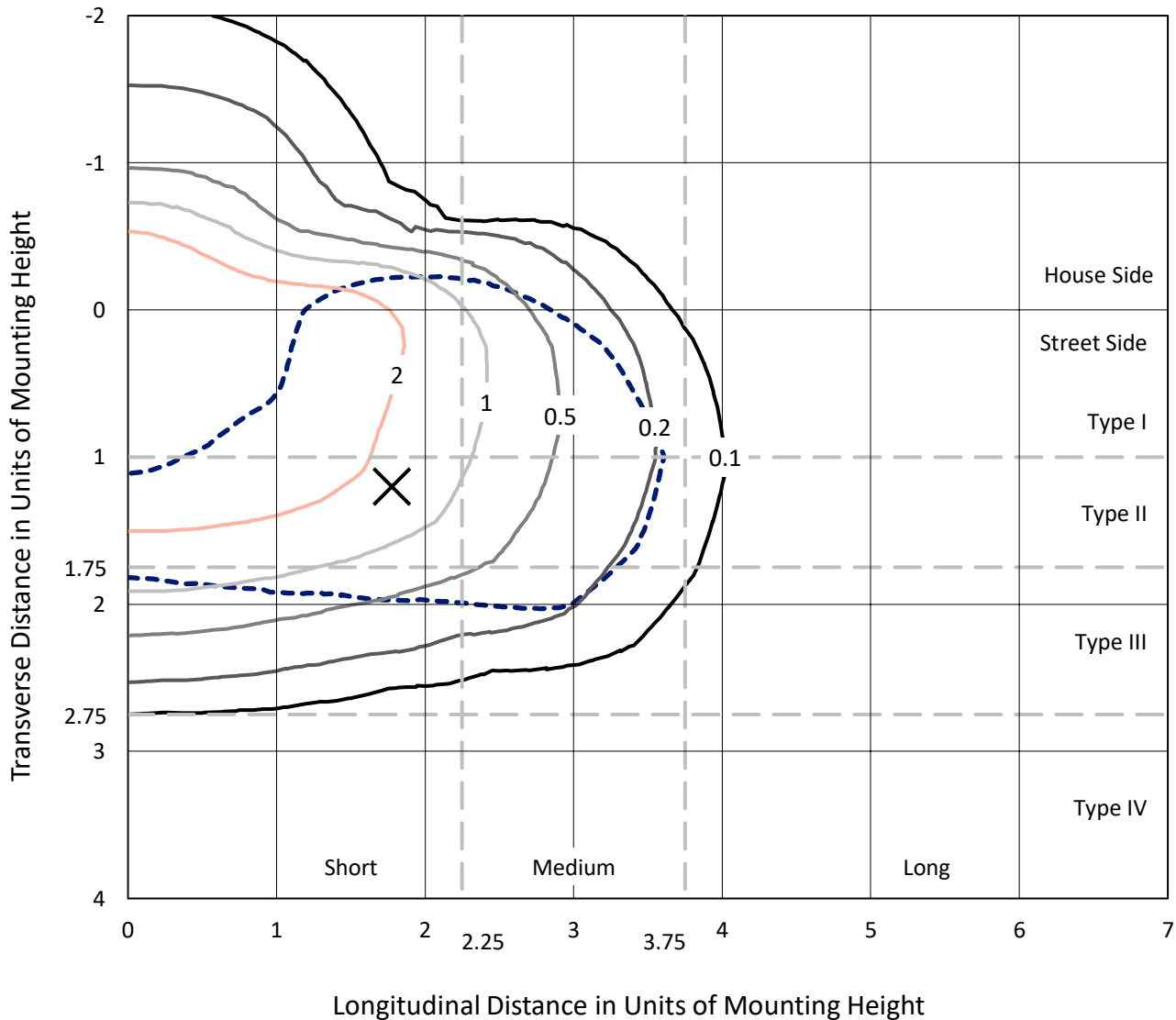
Lumens per Lamp: N/A  
Luminaire Lumens: 19852.6 lumens  
Efficiency: N/A  
Efficacy: 107.8 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 184.1  
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

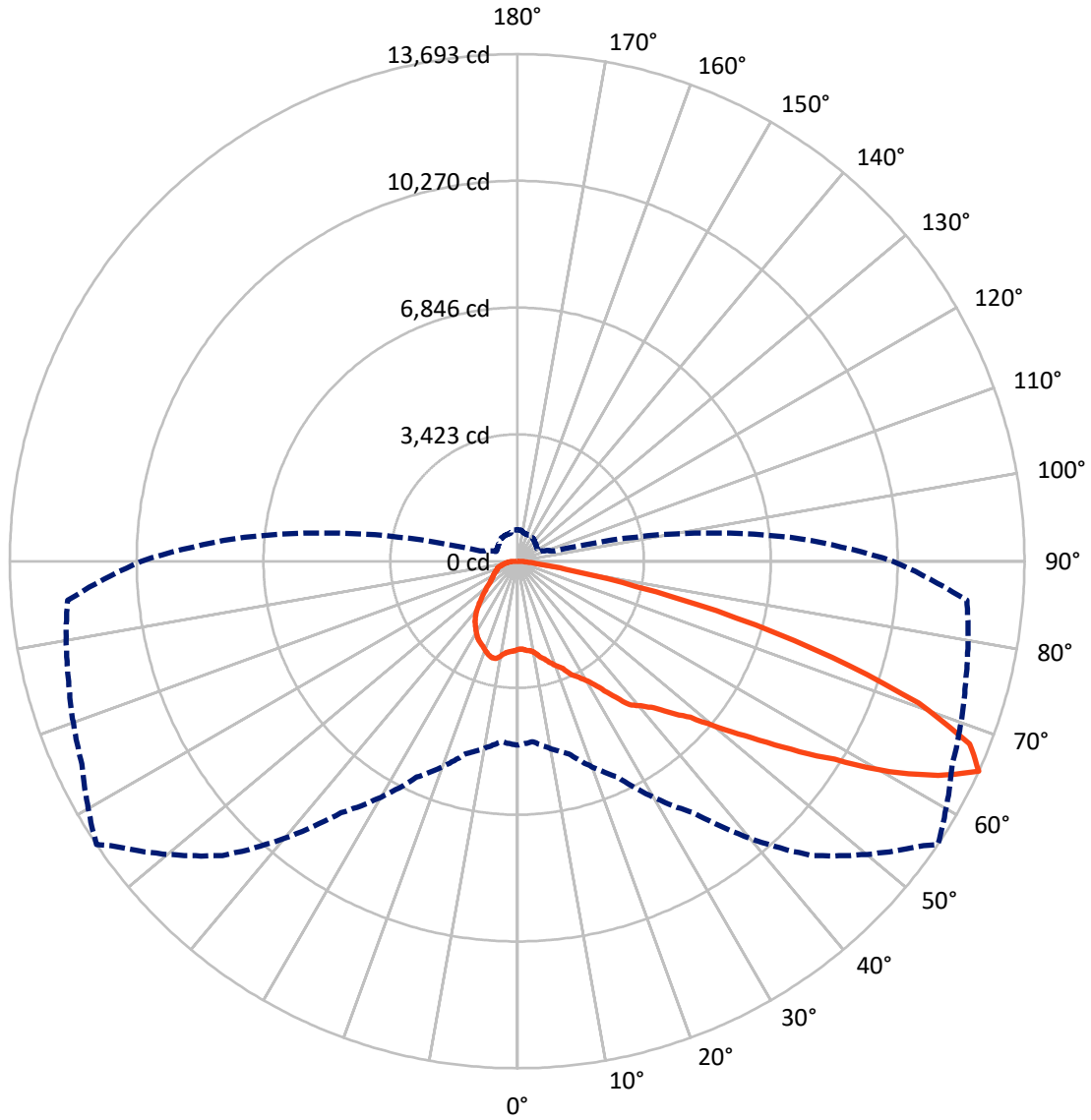
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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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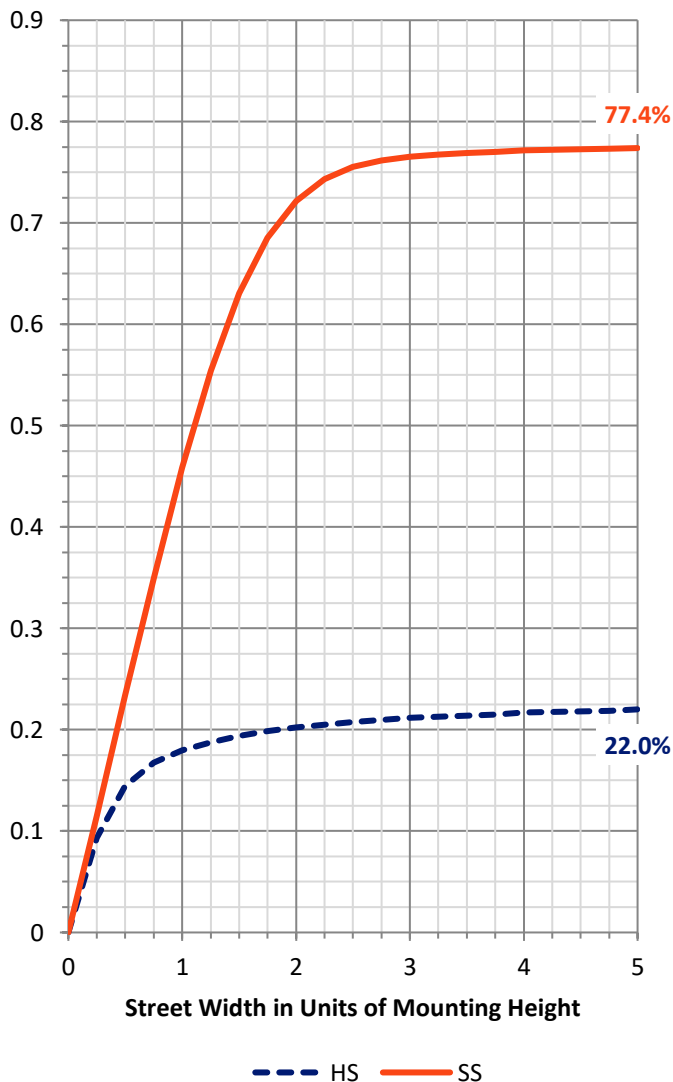
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4452.3	0.0	4452.3
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	15400.3	0.0	15400.3
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	19852.6	0.0	19852.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	236.1	1.2
10°-20°	766.8	3.9
20°-30°	1365.3	6.9
30°-40°	2044.5	10.3
40°-50°	3029.1	15.3
50°-60°	4667.4	23.5
60°-70°	5284.1	26.6
70°-80°	2193.0	11.0
80°-90°	266.4	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°	19852.6	100.0
0°-180°	19852.6	100.0

**Coefficient of Utilization**

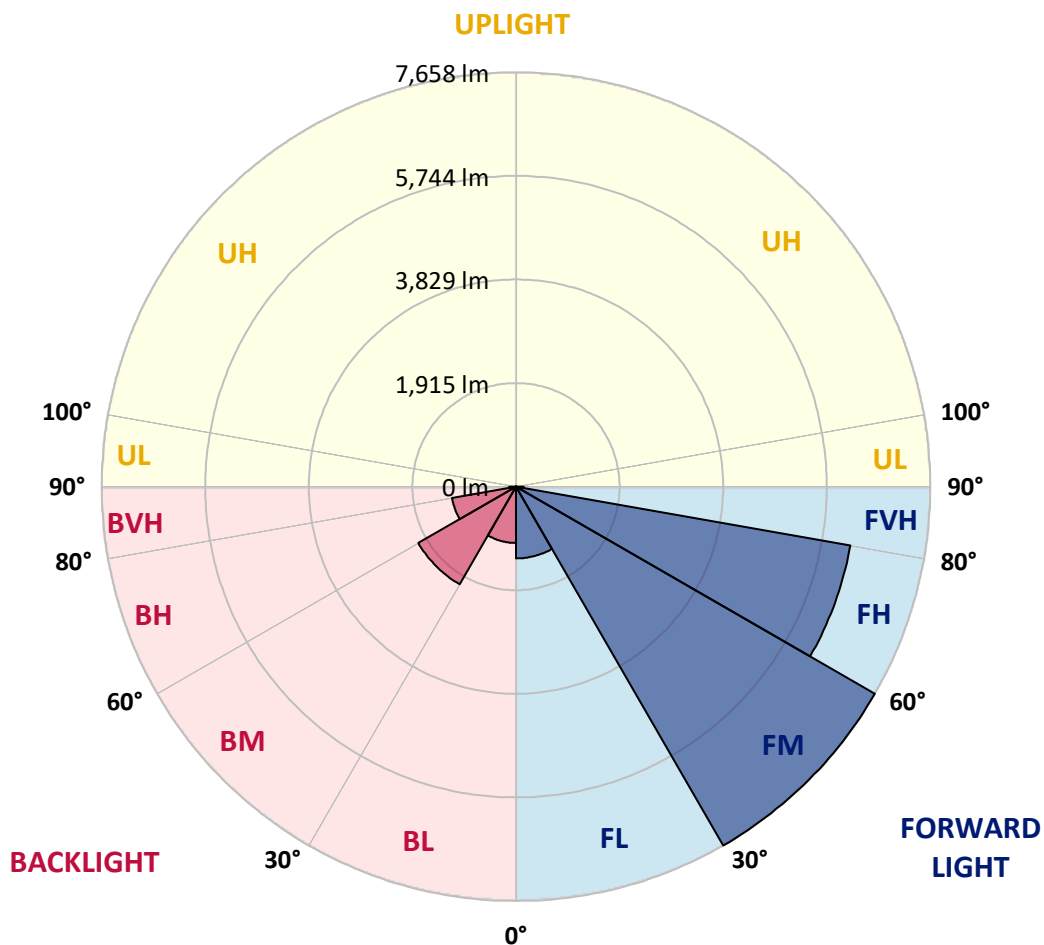


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1326.7	6.7			
FM (30°-60°)	7658.3	38.6			
FH (60°-80°)	6274.8	31.6			G3/7500
FVH (80°-90°)	140.5	0.7			G2/225
BL (0°-30°)	1041.4	5.2	B3/2500		
BM (30°-60°)	2082.7	10.5	B2/2500		
BH (60°-80°)	1202.3	6.1	B3/2500		G3/2500
BVH (80°-90°)	125.9	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°	2382.9	2382.9	2382.9	2382.9	2382.9	2382.9	2382.9	2382.9	2382.9	2382.9
2.5°	2320.6	2333.0	2324.7	2349.6	2370.4	2370.4	2387.0	2374.6	2391.2	2414.0
5°	2397.4	2347.6	2374.6	2387.0	2380.8	2391.2	2374.6	2416.1	2389.1	2432.7
7.5°	2416.1	2434.8	2457.7	2436.9	2455.6	2445.2	2447.3	2441.1	2426.5	2461.8
10°	2553.2	2526.2	2578.2	2547.0	2542.9	2538.7	2530.4	2499.2	2534.5	2536.6
12.5°	2711.1	2686.2	2684.1	2659.2	2692.4	2632.2	2644.6	2628.0	2634.3	2642.6
15°	2825.4	2815.0	2862.8	2833.7	2790.1	2763.1	2792.1	2746.4	2769.3	2765.1
17.5°	3051.8	3049.8	3014.4	2966.7	2941.7	2902.3	2896.0	2877.3	2893.9	2885.6
20°	3209.7	3232.6	3238.8	3182.7	3087.2	3043.5	3033.1	3018.6	3037.3	3031.1
22.5°	3450.7	3415.4	3442.4	3344.8	3309.4	3205.6	3168.2	3147.4	3236.7	3213.9
25°	3604.4	3641.8	3614.8	3581.6	3502.7	3373.8	3346.8	3392.5	3427.9	3402.9
27.5°	3951.4	3914.0	3889.1	3789.3	3737.4	3602.4	3571.2	3554.6	3562.9	3577.4
30°	4215.2	4236.0	4179.9	4109.3	3978.4	3841.3	3768.6	3754.0	3724.9	3700.0
32.5°	4591.3	4560.1	4526.9	4481.2	4369.0	4188.2	4117.6	4063.6	3976.3	3860.0
35°	4772.0	4861.3	4836.4	4713.8	4628.7	4560.1	4539.3	4456.2	4383.5	4200.7
37.5°	5073.2	5110.6	5075.3	5035.8	4996.4	4923.7	4898.7	4921.6	4778.2	4477.0
40°	5268.5	5347.5	5420.2	5310.1	5301.8	5316.3	5162.6	5135.6	4840.6	4682.7
42.5°	5667.4	5700.6	5715.2	5711.0	5758.8	5758.8	5465.9	5407.7	5197.9	5069.1
45°	6195.1	6222.1	6274.0	6311.4	6257.4	6284.4	5866.8	5844.0	5657.0	5632.1
47.5°	6652.1	6716.5	6832.9	6943.0	7013.6	6922.2	6465.2	6303.1	6255.3	6404.9
50°	7051.0	6974.1	7246.3	7358.5	7668.0	7819.7	7125.8	7061.4	6984.5	7271.2
52.5°	7090.5	7194.4	7578.7	7803.1	8440.9	8721.3	7936.0	7909.0	7815.5	8145.8
55°	7373.0	7360.6	7747.0	8233.1	8991.4	9463.0	8991.4	8974.8	8771.2	9084.9
57.5°	7325.2	7452.0	7757.4	8436.7	9487.9	10258.7	10215.0	10100.8	9816.2	10071.7
60°	7163.2	7196.4	7568.3	8430.5	9776.7	11075.1	11536.3	11559.2	10977.5	11181.1
62.5°	6244.9	6321.8	6793.4	7767.7	9571.0	11638.1	12826.4	12745.4	12280.1	12047.4
65°	4967.3	4890.4	5380.7	6434.0	8291.3	11239.2	13391.5	13692.8	12961.5	12535.6
67.5°	3045.6	3026.9	3498.5	4427.1	6203.4	9564.8	12940.7	13175.5	12772.4	12431.7
70°	1568.5	1520.7	1815.7	2470.1	3899.5	7017.8	11262.1	11492.7	11877.0	11149.9
72.5°	731.3	720.9	878.8	1215.3	1986.1	4125.9	8721.3	8887.5	9697.7	9400.7
75°	430.0	436.3	525.6	635.7	968.1	1944.5	5787.9	6109.9	6988.7	6774.7
77.5°	322.0	322.0	373.9	442.5	565.1	752.1	2856.6	3282.4	4086.4	3675.1
80°	236.8	241.0	286.7	332.4	392.6	388.5	1134.3	1329.6	1873.9	1601.7
82.5°	184.9	191.1	222.3	247.2	276.3	234.8	465.4	500.7	770.7	612.9
85°	128.8	133.0	174.5	168.3	168.3	130.9	193.2	203.6	305.4	290.8
87.5°	31.2	35.3	85.2	93.5	70.6	39.5	60.2	68.6	110.1	126.7
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°
2382.9	0°	2382.9	2382.9	2382.9	2382.9	2382.9	2382.9	2382.9	2382.9	2382.9	2382.9
2424.4	2.5°	2393.3	2401.6	2436.9	2418.2	2428.6	2385.0	2420.3	2391.2	2416.1	2403.7
2443.1	5°	2459.8	2441.1	2461.8	2447.3	2447.3	2463.9	2488.8	2470.1	2507.5	2490.9
2457.7	7.5°	2486.8	2488.8	2501.3	2503.4	2493.0	2544.9	2547.0	2540.8	2576.1	2567.8
2557.4	10°	2553.2	2555.3	2578.2	2590.6	2580.2	2598.9	2578.2	2561.5	2559.5	2551.2
2636.3	12.5°	2659.2	2680.0	2675.8	2686.2	2688.3	2609.3	2561.5	2480.5	2470.1	2480.5
2752.7	15°	2756.8	2748.5	2752.7	2773.5	2686.2	2559.5	2474.3	2405.7	2409.9	2412.0
2904.3	17.5°	2873.2	2879.4	2885.6	2790.1	2630.1	2480.5	2405.7	2405.7	2385.0	2393.3
3010.3	20°	3006.1	2981.2	2927.2	2792.1	2532.5	2389.1	2366.3	2366.3	2341.3	2324.7
3124.5	22.5°	3110.0	3060.1	2979.1	2727.7	2445.2	2353.8	2297.7	2258.2	2229.1	2195.9
3251.3	25°	3176.5	3149.5	2991.6	2661.3	2380.8	2260.3	2177.2	2117.0	2079.6	2035.9
3351.0	27.5°	3278.3	3226.3	3026.9	2584.4	2310.2	2166.8	2038.0	1944.5	1873.9	1828.2
3502.7	30°	3415.4	3340.6	3002.0	2474.3	2202.1	2004.8	1853.1	1732.6	1651.6	1614.2
3646.0	32.5°	3527.6	3429.9	2981.2	2374.6	2081.6	1840.7	1639.1	1516.6	1470.9	1423.1
3887.0	35°	3741.6	3548.4	2966.7	2318.5	1973.6	1676.5	1464.6	1358.7	1300.5	1229.9
4030.3	37.5°	3905.7	3754.0	2931.3	2202.1	1834.4	1516.6	1331.7	1236.1	1148.9	1074.1
4362.7	40°	4163.3	4040.7	2933.4	2038.0	1670.3	1379.5	1227.8	1128.1	1018.0	953.6
4855.1	42.5°	4647.4	4323.3	2945.9	1907.1	1485.4	1267.3	1134.3	1015.9	905.8	851.8
5416.0	45°	5241.5	4711.8	2869.0	1788.7	1296.4	1161.3	1022.1	903.7	833.1	793.6
6178.5	47.5°	5925.0	5091.9	2765.1	1566.4	1138.5	1049.1	918.3	849.7	797.8	774.9
7161.1	50°	6689.5	5636.2	2736.1	1362.8	1015.9	953.6	868.4	816.5	781.1	754.1
8268.4	52.5°	7674.3	6269.9	2677.9	1153.0	909.9	876.7	849.7	814.4	783.2	760.4
9300.9	55°	8615.4	6972.1	2615.6	980.6	835.2	839.3	853.8	822.7	795.7	760.4
10458.1	57.5°	9674.9	7688.8	2385.0	853.8	779.1	820.6	849.7	814.4	787.4	760.4
11642.3	60°	10329.3	8091.8	1934.1	743.7	729.2	785.3	824.8	787.4	758.3	768.7
12186.6	62.5°	10595.2	7879.9	1458.4	675.2	693.9	737.5	785.3	770.7	750.0	789.4
12180.3	65°	10142.3	7391.7	1042.9	617.0	646.1	689.7	750.0	766.6	772.8	849.7
11187.3	67.5°	9024.6	6436.1	766.6	569.2	596.2	660.6	774.9	801.9	797.8	893.3
9388.2	70°	7221.4	5033.8	598.3	529.8	577.5	683.5	810.2	810.2	781.1	893.3
7161.1	72.5°	5254.0	3548.4	515.2	484.1	529.8	627.4	806.1	804.0	766.6	816.5
4560.1	75°	3180.6	2065.0	455.0	438.4	455.0	538.1	770.7	758.3	706.3	702.2
2193.8	77.5°	1585.1	1038.7	371.9	388.5	396.8	450.8	677.3	696.0	625.3	608.7
866.3	80°	669.0	452.9	309.5	334.5	334.5	380.2	563.0	575.5	519.4	488.2
342.8	82.5°	305.4	259.7	263.8	290.8	272.2	295.0	446.7	461.2	421.7	369.8
145.4	85°	128.8	147.5	201.5	228.5	201.5	191.1	307.5	324.1	274.2	228.5
62.3	87.5°	58.2	81.0	126.7	166.2	101.8	89.3	164.1	170.4	137.1	101.8
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>
2382.9
2380.8
2468.1
2555.3
2551.2
2484.7
2441.1
2395.3
2299.8
2177.2
2044.3
1849.0
1635.0
1421.0
1223.6
1076.1
959.8
855.9
801.9
770.7
758.3
758.3
758.3
758.3
760.4
779.1
849.7
899.6
874.6
787.4
693.9
598.3
477.8
361.5
230.6
95.6
0.0

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