

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: P477691

Luminaire Tested: **IFLD-S-SA3D-730-U-T3R**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477691  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-730-U-T3R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens  
Light Source: (48) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

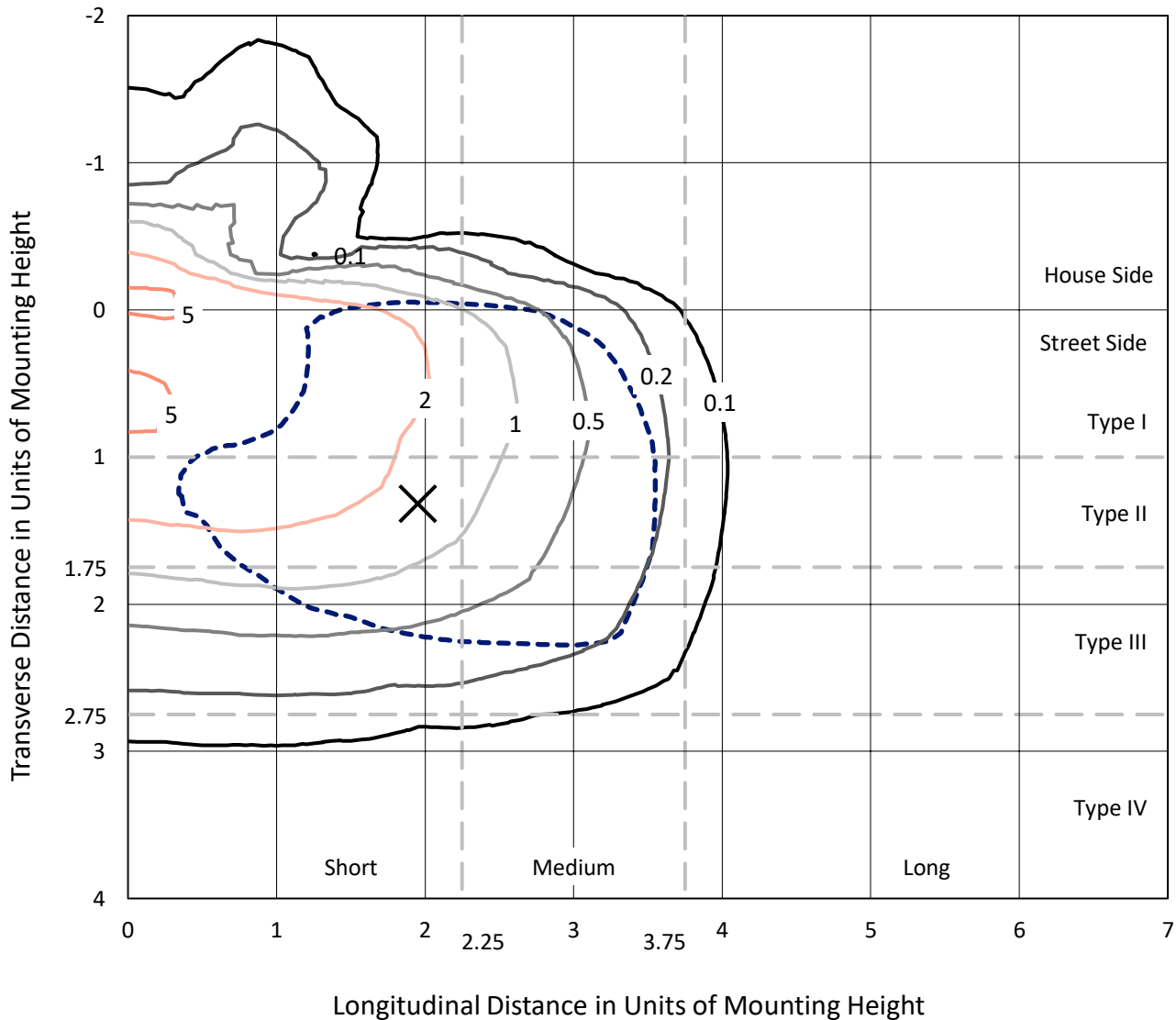
Lumens per Lamp: N/A  
Luminaire Lumens: 20847.6 lumens  
Efficiency: N/A  
Efficacy: 113.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 184.1  
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

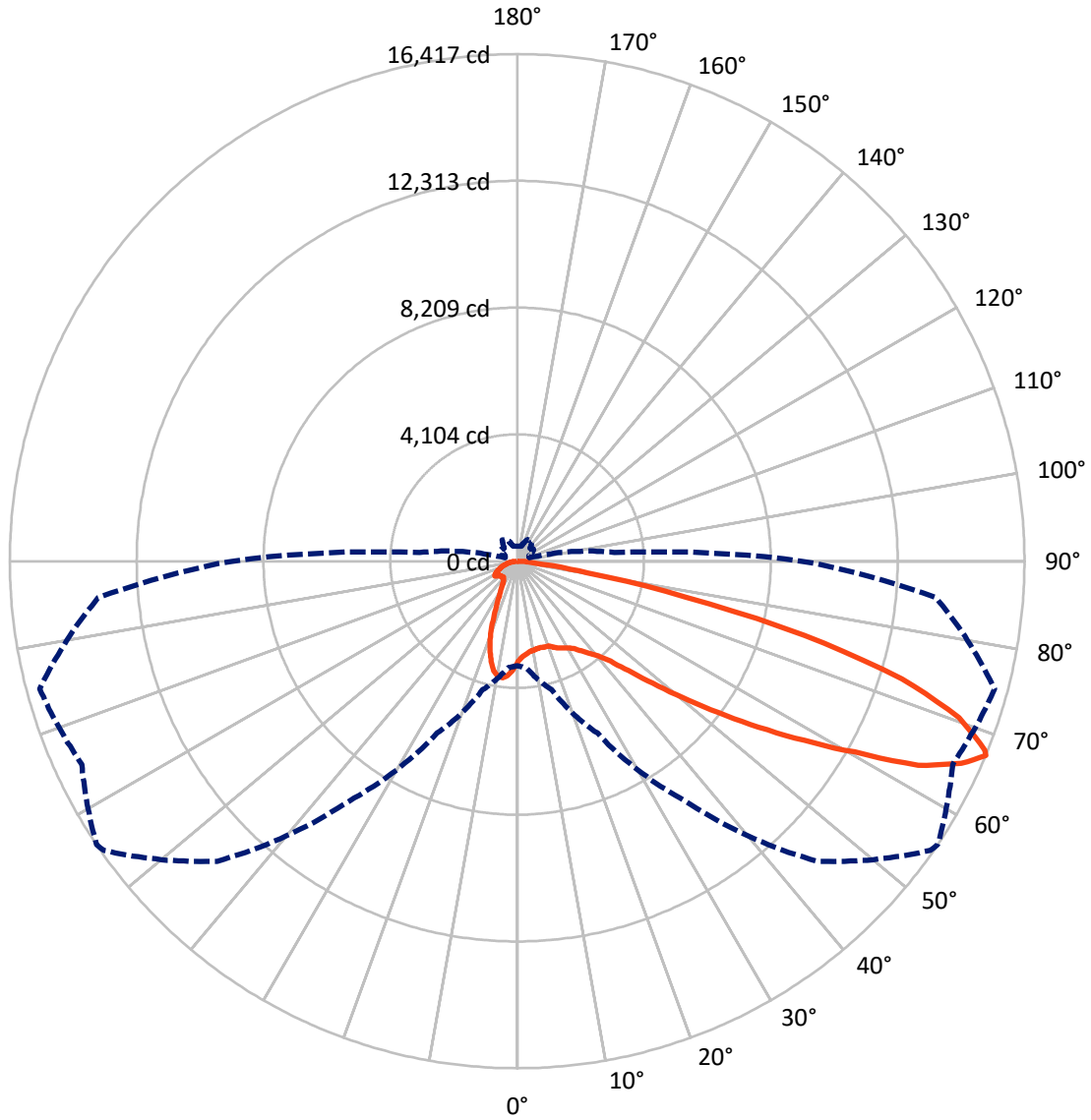
✕ Max cd  
 - - - 1/2 Max cd



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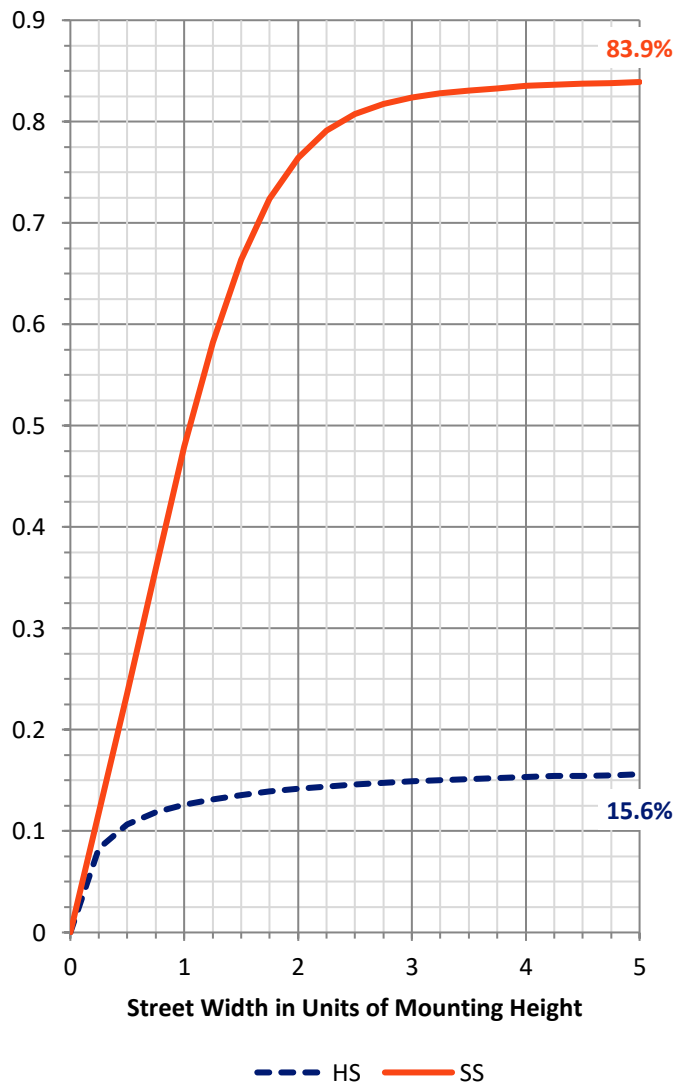
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3300.4	0.0	3300.4
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	17547.2	0.0	17547.2
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	20847.6	0.0	20847.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	312.5	1.5
10°-20°	852.5	4.1
20°-30°	1337.0	6.4
30°-40°	1908.7	9.2
40°-50°	2880.7	13.8
50°-60°	4585.6	22.0
60°-70°	5862.3	28.1
70°-80°	2858.3	13.7
80°-90°	250.0	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°	20847.6	100.0
0°-180°	20847.6	100.0

**Coefficient of Utilization**

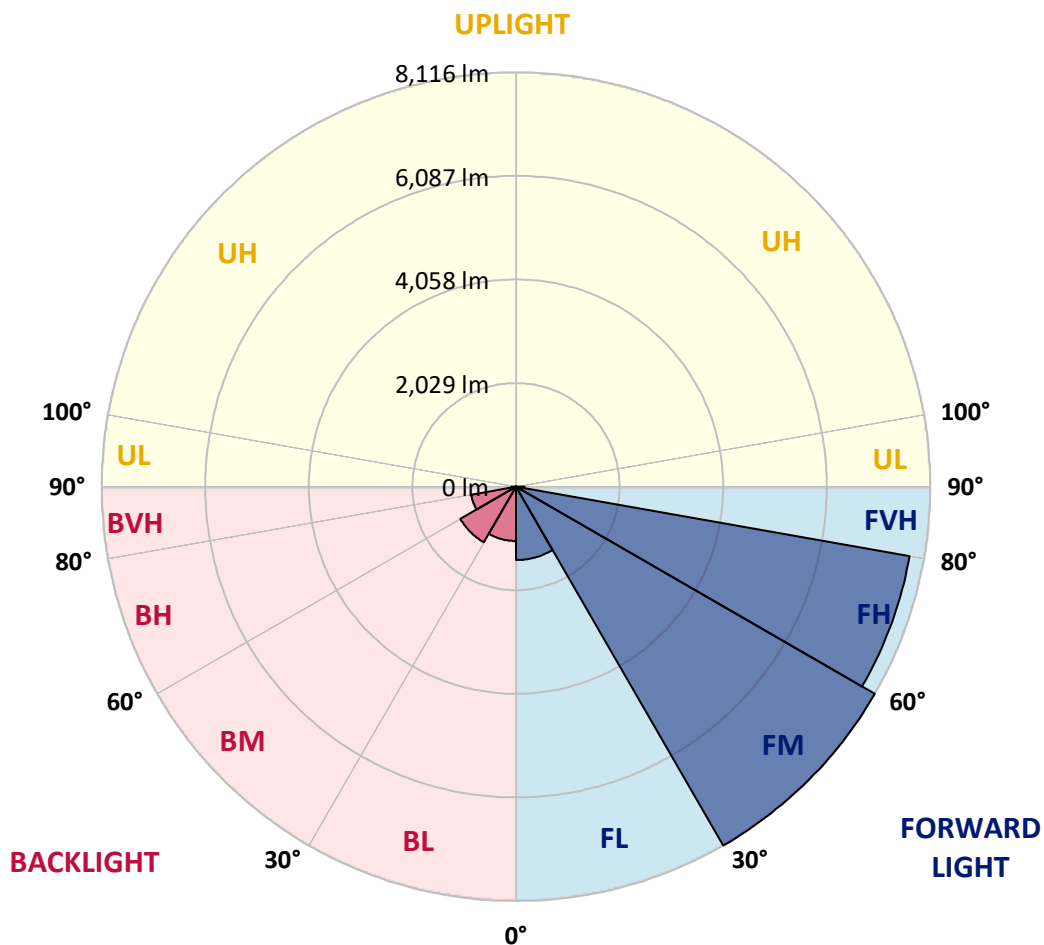


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1436.6	6.9			
FM (30°-60°)	8115.8	38.9			
FH (60°-80°)	7828.8	37.6			G4/12000
FVH (80°-90°)	166.1	0.8			G2/225
BL (0°-30°)	1065.5	5.1	B3/2500		
BM (30°-60°)	1259.1	6.0	B2/2500		
BH (60°-80°)	891.8	4.3	B2/1000		G2/1000
BVH (80°-90°)	84.0	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°	3243.8	3243.8	3243.8	3243.8	3243.8	3243.8	3243.8	3243.8	3243.8	3243.8
2.5°	2979.8	2967.6	2982.3	2967.6	3033.6	3072.7	3084.9	3102.1	3163.2	3221.8
5°	2855.2	2801.4	2860.1	2879.6	2884.5	2950.5	3018.9	3031.2	3062.9	3158.3
7.5°	2647.4	2708.5	2686.5	2745.2	2806.3	2872.3	2984.7	2952.9	3070.3	3160.7
10°	2603.4	2608.3	2632.7	2654.7	2708.5	2794.1	2950.5	2930.9	3050.7	3243.8
12.5°	2647.4	2647.4	2640.0	2622.9	2684.0	2767.2	2891.8	2901.6	3089.8	3268.3
15°	2801.4	2830.7	2752.5	2764.7	2740.3	2767.2	2877.2	2899.2	3104.5	3287.8
17.5°	3177.8	3168.1	3075.2	2945.6	2838.1	2820.9	2896.7	2921.2	3089.8	3344.1
20°	3544.5	3525.0	3363.6	3229.2	3016.5	2916.3	2928.5	2930.9	3114.3	3380.7
22.5°	3952.7	4004.1	3828.1	3554.3	3290.3	3040.9	2992.1	3031.2	3170.5	3400.3
25°	4593.2	4483.2	4331.6	3972.3	3547.0	3234.1	3097.2	3116.7	3224.3	3449.2
27.5°	5055.2	5011.2	4774.1	4483.2	3906.3	3385.6	3153.4	3190.1	3322.1	3446.7
30°	5500.1	5500.1	5355.9	4920.8	4285.2	3639.8	3273.2	3256.1	3275.6	3441.8
32.5°	6020.8	5949.9	5742.1	5453.7	4761.9	3872.1	3368.5	3373.4	3373.4	3532.3
35°	6294.6	6409.5	6270.1	5800.8	5126.1	4258.3	3598.3	3561.6	3534.7	3632.5
37.5°	6695.5	6763.9	6617.2	6341.0	5578.3	4571.2	3801.2	3771.8	3615.4	3710.7
40°	6937.5	6925.2	6920.4	6793.2	6177.2	4940.3	4099.4	4023.6	3813.4	3987.0
42.5°	7074.4	7049.9	7350.6	7272.4	6741.9	5483.0	4473.4	4431.9	4199.6	4478.3
45°	7228.4	7409.2	7656.1	7876.1	7399.5	6245.7	5106.5	5047.9	4840.1	5194.5
47.5°	7362.8	7585.3	7900.6	8135.3	7993.5	7074.4	5888.8	5903.4	5766.6	6130.8
50°	7587.7	7609.7	8037.5	8511.7	8621.7	7839.5	6939.9	6915.5	6854.3	7365.2
52.5°	7519.3	7585.3	8125.5	8731.7	8912.6	8648.6	8069.3	8142.6	8061.9	8704.8
55°	6404.6	6602.6	8071.7	8963.9	9602.0	9562.8	9521.3	9472.4	9467.5	10210.6
57.5°	5898.6	6059.9	7111.0	9220.6	10340.2	10628.6	10897.5	10951.3	10948.9	11846.0
60°	5566.1	5732.3	6722.3	9081.3	10968.4	12024.4	12540.2	12547.6	12532.9	13593.8
62.5°	4915.9	5077.2	6050.1	8318.6	11142.0	13312.7	14461.6	14556.9	13884.7	15099.6
65°	4133.6	4265.6	5123.7	7152.6	10680.0	14131.6	15906.3	15793.8	15023.8	15960.1
67°	3380.7	3468.7	4304.7	6140.6	9472.4	13738.0	16324.3	16417.2	15549.4	15996.7
67.5°	3165.6	3246.3	4035.9	5795.9	9012.8	13439.8	16339.0	16324.3	15559.2	16004.1
70°	2197.6	2231.8	2750.1	3987.0	6639.2	11354.7	15146.1	15180.3	14906.5	15136.3
72.5°	1456.9	1508.3	1838.3	2512.9	3913.6	8262.4	12660.0	13026.7	12853.1	12410.7
75°	938.7	968.0	1202.7	1496.0	1926.3	4705.6	9352.6	9597.1	9198.6	7675.7
77.5°	525.6	557.3	726.0	909.4	938.7	1958.0	5253.2	5556.3	4708.1	3260.9
80°	327.6	369.1	547.6	540.2	447.3	718.7	2165.8	2319.8	1882.3	1122.0
82.5°	246.9	278.7	422.9	378.9	251.8	320.2	811.6	870.2	689.3	432.7
85°	168.7	212.7	305.6	234.7	132.0	154.0	322.7	347.1	315.3	210.2
87.5°	61.1	90.4	158.9	117.3	58.7	46.4	105.1	117.3	112.4	95.3
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°
3243.8	0°	3243.8	3243.8	3243.8	3243.8	3243.8	3243.8	3243.8	3243.8	3243.8	3243.8
3273.2	2.5°	3319.6	3353.8	3371.0	3471.2	3512.7	3505.4	3515.2	3529.8	3544.5	3564.1
3314.7	5°	3346.5	3451.6	3507.8	3625.2	3703.4	3669.2	3713.2	3701.0	3683.8	3681.4
3390.5	7.5°	3434.5	3569.0	3737.6	3769.4	3803.6	3718.1	3644.7	3544.5	3520.1	3434.5
3454.1	10°	3591.0	3701.0	3906.3	3918.5	3767.0	3547.0	3383.2	3175.4	3172.9	3048.3
3551.8	12.5°	3740.1	3864.7	4031.0	3960.1	3598.3	3297.6	3031.2	2803.8	2708.5	2644.9
3610.5	15°	3833.0	4038.3	4126.3	3820.7	3302.5	2896.7	2552.0	2307.6	2209.8	2163.4
3683.8	17.5°	3918.5	4204.5	4165.4	3576.3	2938.3	2483.6	2072.9	1860.3	1833.4	1799.1
3801.2	20°	4035.9	4265.6	4026.1	3258.5	2525.2	1950.7	1689.1	1586.5	1610.9	1625.6
3813.4	22.5°	4145.9	4297.4	3850.1	2911.4	1994.7	1544.9	1415.4	1437.4	1474.0	1522.9
3842.7	25°	4194.7	4348.7	3613.0	2432.3	1518.0	1300.5	1271.1	1307.8	1368.9	1371.4
3884.3	27.5°	4226.5	4312.1	3327.0	1965.4	1200.2	1136.7	1180.7	1207.6	1214.9	1244.2
3972.3	30°	4282.7	4236.3	2965.2	1405.6	1007.1	1009.6	1065.8	1065.8	1065.8	1087.8
4060.3	32.5°	4380.5	4185.0	2542.3	1026.7	867.8	946.0	931.4	926.5	916.7	889.8
4172.7	35°	4441.6	4045.6	2006.9	760.2	779.8	867.8	862.9	787.1	660.0	596.5
4458.7	37.5°	4568.8	3974.7	1476.5	586.7	728.5	828.7	801.8	618.5	479.1	418.0
4813.2	40°	4842.5	3928.3	1021.8	513.3	694.2	809.1	716.2	528.0	366.7	259.1
5360.8	42.5°	5177.4	3930.7	694.2	484.0	696.7	850.7	689.3	452.2	259.1	207.8
6091.7	45°	5627.2	3894.1	476.7	484.0	740.7	919.1	706.5	410.7	251.8	264.0
7008.4	47.5°	6111.2	3925.9	354.5	440.0	748.0	921.6	645.3	403.3	242.0	305.6
8005.7	50°	6675.9	3957.6	293.3	405.8	750.5	892.2	594.0	393.6	251.8	322.7
9149.7	52.5°	7257.7	4057.9	249.3	383.8	779.8	880.0	594.0	408.2	251.8	281.1
10606.6	55°	8125.5	4314.5	359.3	479.1	887.3	960.7	730.9	572.0	352.0	361.8
12002.4	57.5°	9083.7	4578.5	400.9	503.6	911.8	865.3	787.1	630.7	371.6	374.0
13087.8	60°	9714.4	4588.3	398.5	491.3	853.1	748.0	770.0	664.9	378.9	320.2
13760.0	62.5°	9966.2	4290.1	415.6	491.3	794.5	699.1	789.6	716.2	391.1	400.9
13950.7	65°	9680.2	3674.1	400.9	440.0	699.1	625.8	794.5	726.0	427.8	403.3
13608.5	67°	9232.8	3165.6	408.2	418.0	650.2	594.0	836.0	762.7	496.2	484.0
13430.0	67.5°	9105.7	3031.2	405.8	405.8	633.1	584.2	845.8	762.7	506.0	501.1
11853.3	70°	8025.3	2456.7	415.6	400.9	559.8	554.9	899.6	804.2	581.8	586.7
8707.3	72.5°	6108.8	1862.7	413.1	400.9	486.5	530.5	906.9	831.1	633.1	586.7
4876.8	75°	3471.2	1114.7	364.2	349.6	383.8	462.0	848.2	792.0	616.0	525.6
1948.3	77.5°	1434.9	574.5	334.9	315.3	317.8	376.5	706.5	738.2	586.7	447.3
650.2	80°	535.3	344.7	268.9	251.8	244.4	276.2	503.6	589.1	501.1	366.7
286.0	82.5°	278.7	215.1	183.3	183.3	166.2	176.0	271.3	391.1	378.9	251.8
114.9	85°	141.8	122.2	105.1	102.7	92.9	83.1	136.9	232.2	217.6	139.3
51.3	87.5°	75.8	68.4	44.0	41.6	34.2	22.0	24.4	46.4	75.8	61.1
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>
3243.8
3583.6
3703.4
3463.8
3043.4
2630.3
2153.6
1816.3
1608.5
1496.0
1395.8
1271.1
1112.2
875.1
625.8
415.6
251.8
202.9
268.9
339.8
374.0
288.4
381.3
361.8
330.0
405.8
396.0
476.7
491.3
542.7
520.7
469.3
422.9
334.9
198.0
114.9
44.0
0.0

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