

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: P477747

Luminaire Tested: **IFLD-M-SA4A-735-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477747
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-735-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

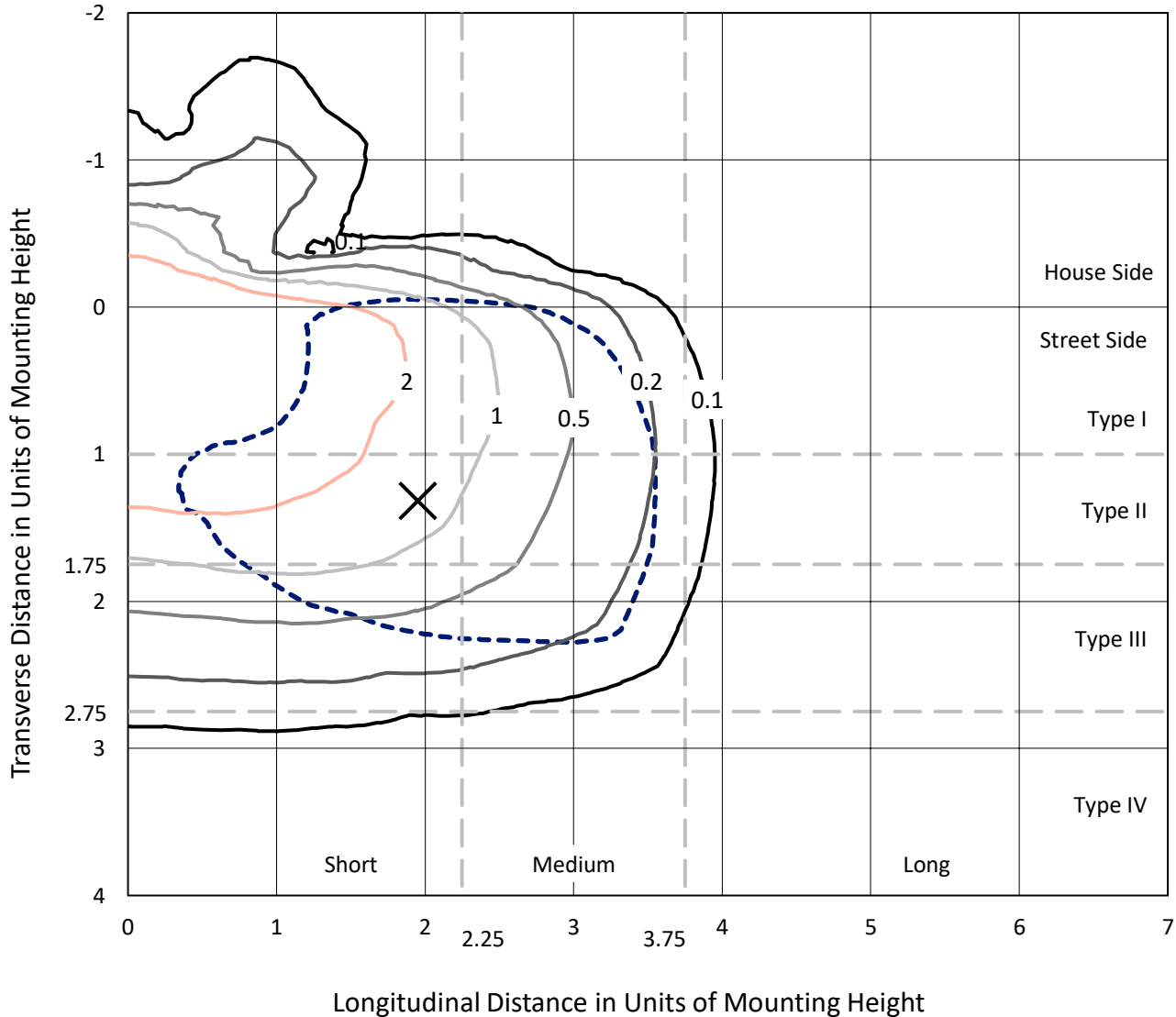
Lumens per Lamp: N/A
Luminaire Lumens: 17891.9 lumens
Efficiency: N/A
Efficacy: 139.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 128.6
Input Voltage (V): 120
Input Current (A_{in}): 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

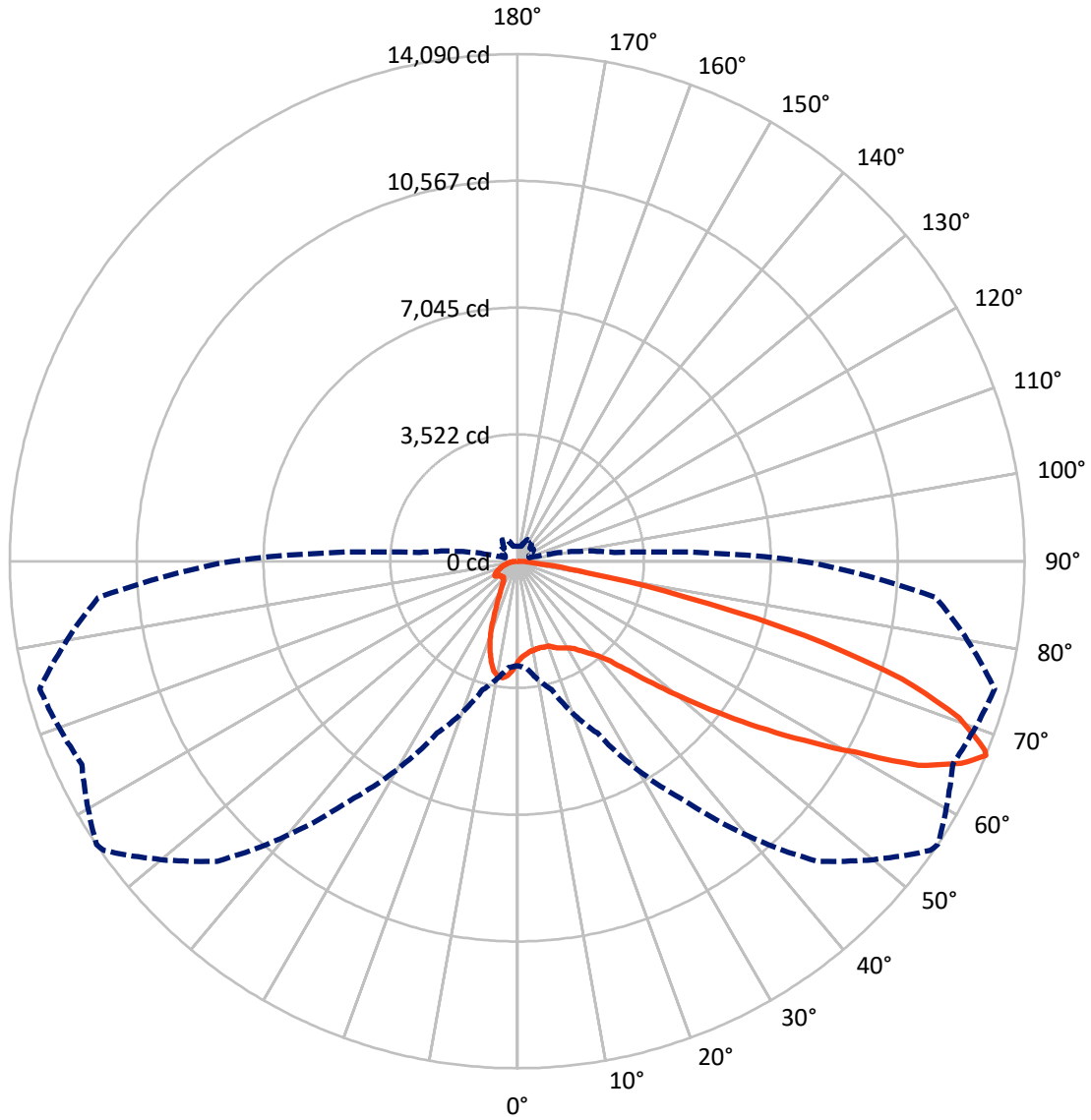
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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	2832.5	0.0	2832.5
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	15059.4	0.0	15059.4
	% Fixture	84.2	0.0	84.2
Total	Lumens	17891.9	0.0	17891.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.2	1.5
10°-20°	731.7	4.1
20°-30°	1147.5	6.4
30°-40°	1638.0	9.2
40°-50°	2472.3	13.8
50°-60°	3935.5	22.0
60°-70°	5031.2	28.1
70°-80°	2453.0	13.7
80°-90°	214.6	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°	17891.9	100.0
0°-180°	17891.9	100.0

Coefficient of Utilization



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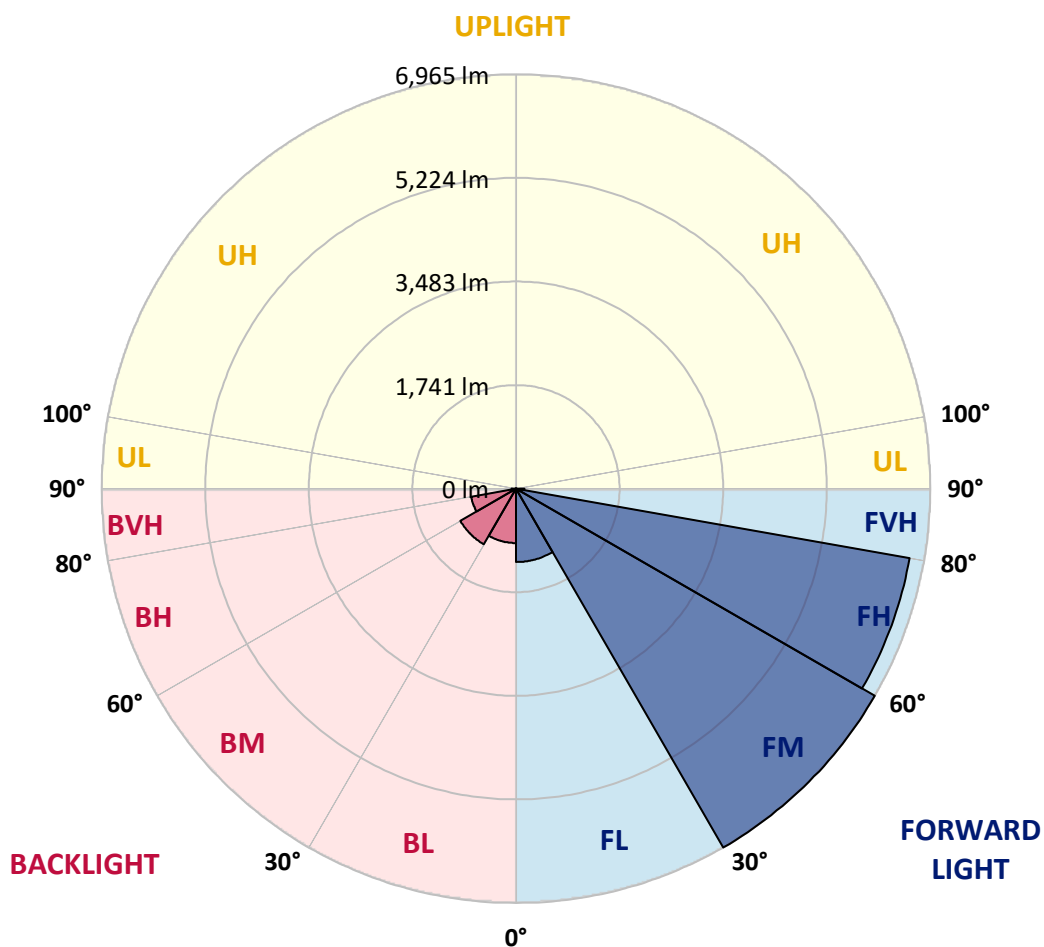
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1233.0	6.9			
FM (30°-60°)	6965.2	38.9			
FH (60°-80°)	6718.8	37.6			G3/7500
FVH (80°-90°)	142.5	0.8			G2/225
BL (0°-30°)	914.4	5.1	B2/1000		
BM (30°-60°)	1080.6	6.0	B2/2500		
BH (60°-80°)	765.4	4.3	B2/1000		G2/1000
BVH (80°-90°)	72.1	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	2783.9	2783.9	2783.9	2783.9	2783.9	2783.9	2783.9	2783.9	2783.9	2783.9
2.5°	2557.4	2546.9	2559.5	2546.9	2603.5	2637.1	2647.6	2662.3	2714.7	2765.1
5°	2450.4	2404.2	2454.6	2471.3	2475.5	2532.2	2590.9	2601.4	2628.7	2710.5
7.5°	2272.0	2324.5	2305.6	2356.0	2408.4	2465.1	2561.6	2534.3	2635.0	2712.6
10°	2234.3	2238.5	2259.5	2278.3	2324.5	2397.9	2532.2	2515.4	2618.2	2783.9
12.5°	2272.0	2272.0	2265.7	2251.1	2303.5	2374.8	2481.8	2490.2	2651.8	2804.9
15°	2404.2	2429.4	2362.3	2372.7	2351.8	2374.8	2469.2	2488.1	2664.4	2821.7
17.5°	2727.3	2718.9	2639.2	2528.0	2435.7	2421.0	2486.0	2507.0	2651.8	2869.9
20°	3042.0	3025.2	2886.7	2771.3	2588.8	2502.8	2513.3	2515.4	2672.7	2901.4
22.5°	3392.3	3436.4	3285.3	3050.4	2823.8	2609.8	2567.8	2601.4	2721.0	2918.2
25°	3942.0	3847.6	3717.5	3409.1	3044.1	2775.5	2658.1	2674.8	2767.2	2960.2
27.5°	4338.5	4300.7	4097.2	3847.6	3352.5	2905.6	2706.3	2737.8	2851.1	2958.1
30°	4720.3	4720.3	4596.5	4223.1	3677.6	3123.8	2809.1	2794.4	2811.2	2953.9
32.5°	5167.2	5106.3	4928.0	4680.5	4086.7	3323.1	2890.9	2895.1	2895.1	3031.5
35°	5402.1	5500.7	5381.2	4978.4	4399.3	3654.6	3088.1	3056.7	3033.6	3117.5
37.5°	5746.2	5804.9	5679.1	5442.0	4787.4	3923.1	3262.3	3237.1	3102.8	3184.6
40°	5953.9	5943.4	5939.2	5830.1	5301.4	4239.9	3518.2	3453.2	3272.7	3421.7
42.5°	6071.4	6050.4	6308.4	6241.3	5786.1	4705.6	3839.2	3803.5	3604.2	3843.4
45°	6203.5	6358.8	6570.7	6759.5	6350.4	5360.2	4382.5	4332.2	4153.9	4458.1
47.5°	6318.9	6509.8	6780.5	6981.9	6860.2	6071.4	5053.9	5066.5	4949.0	5261.6
50°	6511.9	6530.8	6897.9	7304.9	7399.3	6728.0	5956.0	5935.0	5882.6	6321.0
52.5°	6453.2	6509.8	6973.5	7493.8	7649.0	7422.4	6925.2	6988.2	6918.9	7470.7
55°	5496.5	5666.5	6927.3	7693.1	8240.6	8207.0	8171.4	8129.4	8125.2	8763.0
57.5°	5062.3	5200.7	6102.8	7913.3	8874.2	9121.7	9352.5	9398.7	9396.6	10166.5
60°	4777.0	4919.6	5769.3	7793.8	9413.3	10319.6	10762.3	10768.6	10756.0	11666.5
62.5°	4218.9	4357.4	5192.3	7139.2	9562.3	11425.2	12411.3	12493.1	11916.2	12958.8
65°	3547.6	3660.9	4397.2	6138.5	9165.8	12128.1	13651.1	13554.6	12893.8	13697.3
67°	2901.4	2976.9	3694.4	5270.0	8129.4	11790.3	14009.9	14089.6	13344.8	13728.8
67.5°	2716.8	2786.0	3463.7	4974.2	7735.0	11534.3	14022.5	14009.9	13353.2	13735.1
70°	1886.0	1915.4	2360.2	3421.7	5697.9	9744.8	12998.7	13028.1	12793.1	12990.3
72.5°	1250.4	1294.4	1577.6	2156.7	3358.8	7091.0	10865.1	11179.8	11030.8	10651.1
75°	805.6	830.8	1032.2	1283.9	1653.2	4038.5	8026.6	8236.4	7894.5	6587.5
77.5°	451.1	478.3	623.1	780.4	805.6	1680.4	4508.4	4768.6	4040.6	2798.6
80°	281.1	316.8	469.9	463.6	383.9	616.8	1858.8	1990.9	1615.4	962.9
82.5°	211.9	239.2	362.9	325.2	216.1	274.8	696.5	746.9	591.6	371.3
85°	144.8	182.5	262.2	201.4	113.3	132.2	276.9	297.9	270.6	180.4
87.5°	52.4	77.6	136.4	100.7	50.3	39.9	90.2	100.7	96.5	81.8
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°
2783.9	0°	2783.9	2783.9	2783.9	2783.9	2783.9	2783.9	2783.9	2783.9	2783.9	2783.9
2809.1	2.5°	2849.0	2878.3	2893.0	2979.0	3014.7	3008.4	3016.8	3029.4	3042.0	3058.8
2844.8	5°	2872.0	2962.3	3010.5	3111.2	3178.3	3149.0	3186.7	3176.2	3161.6	3159.5
2909.8	7.5°	2947.6	3063.0	3207.7	3235.0	3264.4	3190.9	3128.0	3042.0	3021.0	2947.6
2964.4	10°	3081.8	3176.2	3352.5	3363.0	3232.9	3044.1	2903.5	2725.2	2723.1	2616.1
3048.3	12.5°	3209.8	3316.8	3459.5	3398.6	3088.1	2830.1	2601.4	2406.3	2324.5	2269.9
3098.6	15°	3289.5	3465.8	3541.3	3279.0	2834.3	2486.0	2190.2	1980.4	1896.5	1856.7
3161.6	17.5°	3363.0	3608.4	3574.8	3069.3	2521.7	2131.5	1779.0	1596.5	1573.4	1544.1
3262.3	20°	3463.7	3660.9	3455.3	2796.5	2167.1	1674.1	1449.7	1361.5	1382.5	1395.1
3272.7	22.5°	3558.1	3688.1	3304.2	2498.6	1711.9	1325.9	1214.7	1233.6	1265.0	1307.0
3297.9	25°	3600.0	3732.2	3100.7	2087.4	1302.8	1116.1	1090.9	1122.4	1174.8	1176.9
3333.6	27.5°	3627.3	3700.7	2855.3	1686.7	1030.1	975.5	1013.3	1036.4	1042.7	1067.8
3409.1	30°	3675.5	3635.7	2544.8	1206.3	864.3	866.4	914.7	914.7	914.7	933.6
3484.6	32.5°	3759.5	3591.6	2181.8	881.1	744.8	811.9	799.3	795.1	786.7	763.6
3581.1	35°	3811.9	3472.1	1722.4	652.5	669.2	744.8	740.6	675.5	566.4	511.9
3826.6	37.5°	3921.0	3411.2	1267.1	503.5	625.2	711.2	688.1	530.8	411.2	358.7
4130.8	40°	4156.0	3371.4	876.9	440.6	595.8	694.4	614.7	453.1	314.7	222.4
4600.7	42.5°	4443.4	3373.4	595.8	415.4	597.9	730.1	591.6	388.1	222.4	178.3
5228.0	45°	4829.4	3342.0	409.1	415.4	635.7	788.8	606.3	352.4	216.1	226.6
6014.7	47.5°	5244.8	3369.3	304.2	377.6	642.0	790.9	553.8	346.2	207.7	262.2
6870.7	50°	5729.4	3396.5	251.7	348.3	644.1	765.7	509.8	337.8	216.1	276.9
7852.5	52.5°	6228.7	3482.5	214.0	329.4	669.2	755.2	509.8	350.4	216.1	241.3
9102.9	55°	6973.5	3702.8	308.4	411.2	761.5	824.5	627.3	490.9	302.1	310.5
10300.8	57.5°	7795.9	3929.4	344.1	432.2	782.5	742.7	675.5	541.3	318.9	321.0
11232.2	60°	8337.1	3937.8	342.0	421.7	732.2	642.0	660.8	570.6	325.2	274.8
11809.2	62.5°	8553.2	3681.8	356.6	421.7	681.8	600.0	677.6	614.7	335.7	344.1
11972.8	65°	8307.7	3153.2	344.1	377.6	600.0	537.1	681.8	623.1	367.1	346.2
11679.1	67°	7923.8	2716.8	350.4	358.7	558.0	509.8	717.5	654.5	425.9	415.4
11525.9	67.5°	7814.7	2601.4	348.3	348.3	543.4	501.4	725.9	654.5	434.3	430.1
10172.8	70°	6887.5	2108.4	356.6	344.1	480.4	476.2	772.0	690.2	499.3	503.5
7472.8	72.5°	5242.7	1598.6	354.5	344.1	417.5	455.2	778.3	713.3	543.4	503.5
4185.3	75°	2979.0	956.6	312.6	300.0	329.4	396.5	728.0	679.7	528.7	451.1
1672.0	77.5°	1231.5	493.0	287.4	270.6	272.7	323.1	606.3	633.6	503.5	383.9
558.0	80°	459.4	295.8	230.8	216.1	209.8	237.1	432.2	505.6	430.1	314.7
245.5	82.5°	239.2	184.6	157.3	157.3	142.7	151.0	232.9	335.7	325.2	216.1
98.6	85°	121.7	104.9	90.2	88.1	79.7	71.3	117.5	199.3	186.7	119.6
44.1	87.5°	65.0	58.7	37.8	35.7	29.4	18.9	21.0	39.9	65.0	52.4
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°
2783.9
3075.5
3178.3
2972.7
2611.9
2257.4
1848.3
1558.8
1380.4
1283.9
1197.9
1090.9
954.6
751.1
537.1
356.6
216.1
174.1
230.8
291.6
321.0
247.6
327.3
310.5
283.2
348.3
339.9
409.1
421.7
465.7
446.9
402.8
362.9
287.4
169.9
98.6
37.8
0.0

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