

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: P477825

Luminaire Tested: **IFLD-M-SA4A-750-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477825
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-750-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

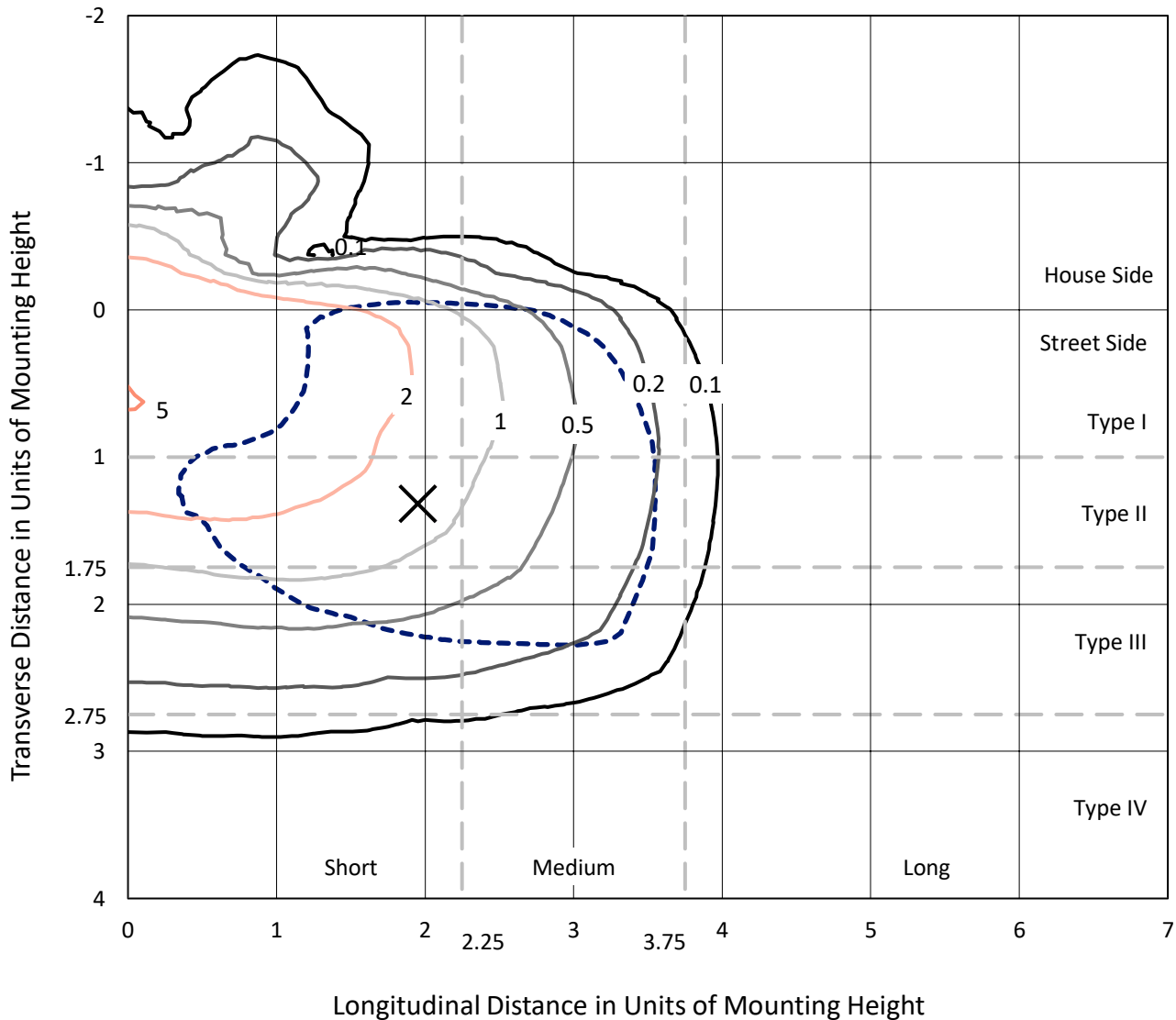
Lumens per Lamp: N/A
Luminaire Lumens: 18555.9 lumens
Efficiency: N/A
Efficacy: 144.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

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

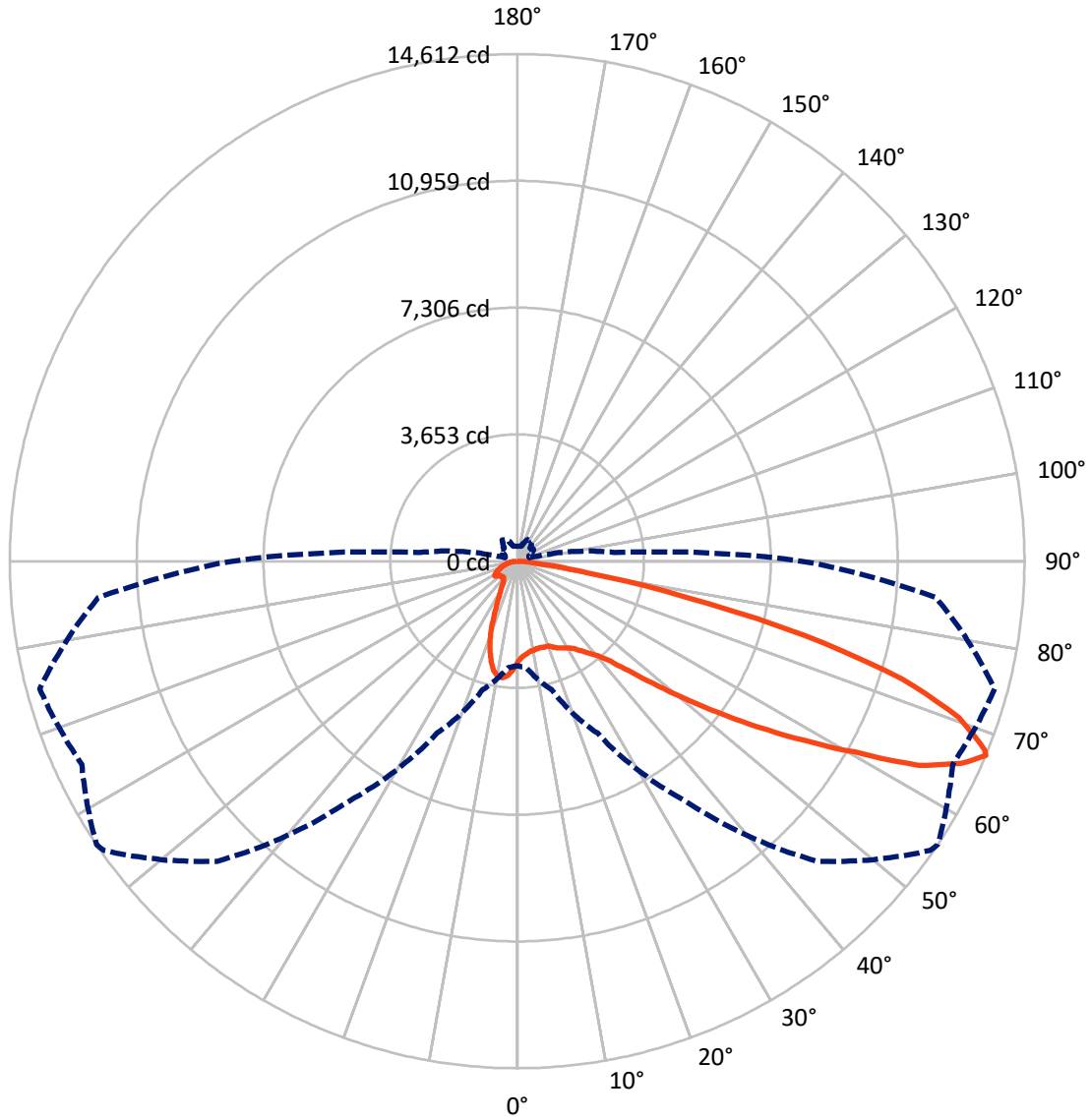
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	2937.6	0.0	2937.6
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	15618.3	0.0	15618.3
	% Fixture	84.2	0.0	84.2
Total	Lumens	18555.9	0.0	18555.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.2	1.5
10°-20°	758.8	4.1
20°-30°	1190.1	6.4
30°-40°	1698.8	9.2
40°-50°	2564.0	13.8
50°-60°	4081.5	22.0
60°-70°	5217.9	28.1
70°-80°	2544.1	13.7
80°-90°	222.6	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°	18555.9	100.0
0°-180°	18555.9	100.0

Coefficient of Utilization



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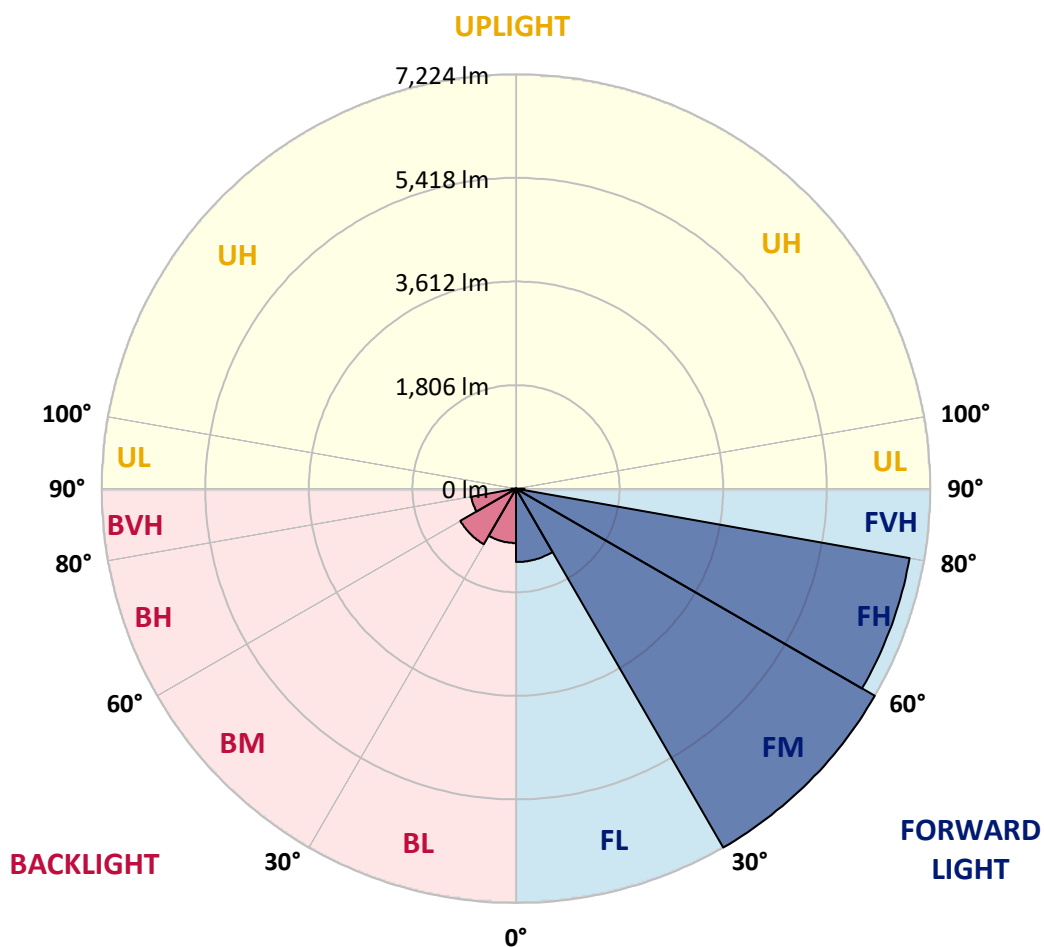
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1278.7	6.9			
FM (30°-60°)	7223.6	38.9			
FH (60°-80°)	6968.1	37.6			G3/7500
FVH (80°-90°)	147.8	0.8			G2/225
BL (0°-30°)	948.3	5.1	B2/1000		
BM (30°-60°)	1120.7	6.0	B2/2500		
BH (60°-80°)	793.8	4.3	B2/1000		G2/1000
BVH (80°-90°)	74.8	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°	2887.2	2887.2	2887.2	2887.2	2887.2	2887.2	2887.2	2887.2	2887.2	2887.2
2.5°	2652.3	2641.4	2654.4	2641.4	2700.1	2734.9	2745.8	2761.0	2815.4	2867.7
5°	2541.3	2493.4	2545.6	2563.1	2567.4	2626.1	2687.1	2697.9	2726.2	2811.1
7.5°	2356.4	2410.7	2391.2	2443.4	2497.8	2556.5	2656.6	2628.3	2732.8	2813.3
10°	2317.2	2321.5	2343.3	2362.9	2410.7	2486.9	2626.1	2608.7	2715.4	2887.2
12.5°	2356.4	2356.4	2349.8	2334.6	2389.0	2463.0	2573.9	2582.6	2750.2	2909.0
15°	2493.4	2519.5	2449.9	2460.8	2439.0	2463.0	2560.9	2580.5	2763.2	2926.4
17.5°	2828.5	2819.8	2737.1	2621.8	2526.1	2510.8	2578.3	2600.0	2750.2	2976.4
20°	3154.9	3137.5	2993.9	2874.2	2684.9	2595.7	2606.6	2608.7	2771.9	3009.1
22.5°	3518.2	3563.9	3407.2	3163.6	2928.6	2706.7	2663.1	2697.9	2822.0	3026.5
25°	4088.3	3990.4	3855.5	3535.6	3157.0	2878.5	2756.7	2774.1	2869.8	3070.0
27.5°	4499.5	4460.3	4249.3	3990.4	3476.9	3013.4	2806.7	2839.4	2956.9	3067.8
30°	4895.5	4895.5	4767.1	4379.8	3814.1	3239.7	2913.4	2898.1	2915.5	3063.5
32.5°	5358.9	5295.8	5110.9	4854.1	4238.4	3446.4	2998.2	3002.6	3002.6	3144.0
35°	5602.6	5704.9	5580.8	5163.1	4562.6	3790.2	3202.7	3170.1	3146.2	3233.2
37.5°	5959.4	6020.3	5889.8	5643.9	4965.1	4068.7	3383.3	3357.2	3218.0	3302.8
40°	6174.8	6163.9	6159.6	6046.5	5498.2	4397.2	3648.8	3581.3	3394.2	3548.7
42.5°	6296.7	6274.9	6542.5	6472.9	6000.8	4880.2	3981.7	3944.7	3738.0	3986.0
45°	6433.7	6594.7	6814.5	7010.3	6586.0	5559.1	4545.2	4493.0	4308.0	4623.5
47.5°	6553.4	6751.4	7032.1	7240.9	7114.8	6296.7	5241.4	5254.5	5132.6	5456.8
50°	6753.6	6773.2	7153.9	7576.0	7673.9	6977.7	6177.0	6155.2	6100.8	6555.6
52.5°	6692.7	6751.4	7232.2	7771.8	7932.8	7697.9	7182.2	7247.5	7175.7	7747.9
55°	5700.5	5876.7	7184.4	7978.5	8546.4	8511.6	8474.6	8431.1	8426.7	9088.2
57.5°	5250.1	5393.7	6329.3	8207.0	9203.5	9460.2	9699.6	9747.4	9745.3	10543.8
60°	4954.2	5102.2	5983.4	8083.0	9762.7	10702.6	11161.7	11168.2	11155.2	12099.4
62.5°	4375.5	4519.1	5385.0	7404.1	9917.1	11849.2	12871.8	12956.7	12358.4	13439.7
65°	3679.2	3796.7	4560.4	6366.3	9505.9	12578.1	14157.7	14057.6	13372.3	14205.6
67°	3009.1	3087.4	3831.5	5465.5	8431.1	12227.8	14529.8	14612.4	13840.0	14238.2
67.5°	2817.6	2889.4	3592.2	5158.7	8022.0	11962.4	14542.8	14529.8	13848.8	14244.7
70°	1956.0	1986.5	2447.7	3548.7	5909.4	10106.4	13481.0	13511.5	13267.8	13472.3
72.5°	1296.8	1342.4	1636.2	2236.7	3483.4	7354.1	11268.3	11594.7	11440.2	11046.4
75°	835.5	861.6	1070.5	1331.6	1714.5	4188.3	8324.5	8542.1	8187.4	6831.9
77.5°	467.8	496.1	646.2	809.4	835.5	1742.8	4675.7	4945.5	4190.5	2902.5
80°	291.6	328.5	487.4	480.8	398.2	639.7	1927.7	2064.8	1675.3	998.7
82.5°	219.8	248.0	376.4	337.2	224.1	285.0	722.4	774.6	613.6	385.1
85°	150.1	189.3	272.0	208.9	117.5	137.1	287.2	309.0	280.7	187.1
87.5°	54.4	80.5	141.4	104.4	52.2	41.3	93.6	104.4	100.1	84.9
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°
2887.2	0°	2887.2	2887.2	2887.2	2887.2	2887.2	2887.2	2887.2	2887.2	2887.2	2887.2
2913.4	2.5°	2954.7	2985.2	3000.4	3089.6	3126.6	3120.0	3128.8	3141.8	3154.9	3172.3
2950.3	5°	2978.6	3072.2	3122.2	3226.7	3296.3	3265.8	3305.0	3294.1	3278.9	3276.7
3017.8	7.5°	3057.0	3176.6	3326.7	3355.0	3385.5	3309.3	3244.1	3154.9	3133.1	3057.0
3074.4	10°	3196.2	3294.1	3476.9	3487.8	3352.9	3157.0	3011.3	2826.3	2824.1	2713.2
3161.4	12.5°	3328.9	3439.9	3587.8	3524.7	3202.7	2935.1	2697.9	2495.6	2410.7	2354.2
3213.6	15°	3411.6	3594.4	3672.7	3400.7	2939.5	2578.3	2271.5	2053.9	1966.9	1925.6
3278.9	17.5°	3487.8	3742.3	3707.5	3183.1	2615.3	2210.6	1845.0	1655.8	1631.8	1601.4
3383.3	20°	3592.2	3796.7	3583.5	2900.3	2247.6	1736.3	1503.5	1412.1	1433.8	1446.9
3394.2	22.5°	3690.1	3825.0	3426.8	2591.3	1775.4	1375.1	1259.8	1279.4	1312.0	1355.5
3420.3	25°	3733.6	3870.7	3215.8	2164.9	1351.2	1157.5	1131.4	1164.0	1218.4	1220.6
3457.3	27.5°	3761.9	3838.1	2961.2	1749.3	1068.3	1011.7	1050.9	1074.8	1081.4	1107.5
3535.6	30°	3811.9	3770.6	2639.2	1251.1	896.4	898.6	948.6	948.6	948.6	968.2
3613.9	32.5°	3899.0	3724.9	2262.8	913.8	772.4	842.0	829.0	824.6	815.9	792.0
3714.0	35°	3953.4	3600.9	1786.3	676.7	694.1	772.4	768.0	700.6	587.5	530.9
3968.6	37.5°	4066.5	3537.8	1314.2	522.2	648.4	737.6	713.7	550.5	426.5	372.1
4284.1	40°	4310.2	3496.5	909.5	456.9	617.9	720.2	637.5	470.0	326.4	230.6
4771.5	42.5°	4608.3	3498.6	617.9	430.8	620.1	757.2	613.6	402.5	230.6	184.9
5422.0	45°	5008.6	3466.0	424.3	430.8	659.3	818.1	628.8	365.5	224.1	235.0
6237.9	47.5°	5439.4	3494.3	315.5	391.6	665.8	820.3	574.4	359.0	215.4	272.0
7125.6	50°	5942.0	3522.6	261.1	361.2	668.0	794.2	528.7	350.3	224.1	287.2
8143.9	52.5°	6459.8	3611.8	221.9	341.6	694.1	783.3	528.7	363.4	224.1	250.2
9440.6	55°	7232.2	3840.2	319.8	426.5	789.8	855.1	650.6	509.1	313.3	322.0
10683.0	57.5°	8085.1	4075.2	356.8	448.2	811.6	770.2	700.6	561.3	330.7	332.9
11649.1	60°	8646.5	4083.9	354.6	437.3	759.3	665.8	685.4	591.8	337.2	285.0
12247.4	62.5°	8870.6	3818.5	369.9	437.3	707.1	622.3	702.8	637.5	348.1	356.8
12417.1	65°	8616.0	3270.2	356.8	391.6	622.3	557.0	707.1	646.2	380.8	359.0
12112.5	67°	8217.9	2817.6	363.4	372.1	578.8	528.7	744.1	678.8	441.7	430.8
11953.7	67.5°	8104.7	2697.9	361.2	361.2	563.5	520.0	752.8	678.8	450.4	446.0
10550.3	70°	7143.0	2186.6	369.9	356.8	498.3	493.9	800.7	715.8	517.8	522.2
7750.1	72.5°	5437.2	1657.9	367.7	356.8	433.0	472.1	807.2	739.8	563.5	522.2
4340.7	75°	3089.6	992.1	324.2	311.1	341.6	411.2	755.0	704.9	548.3	467.8
1734.1	77.5°	1277.2	511.3	298.1	280.7	282.8	335.1	628.8	657.1	522.2	398.2
578.8	80°	476.5	306.8	239.3	224.1	217.6	245.9	448.2	524.4	446.0	326.4
254.6	82.5°	248.0	191.5	163.2	163.2	148.0	156.7	241.5	348.1	337.2	224.1
102.3	85°	126.2	108.8	93.6	91.4	82.7	74.0	121.8	206.7	193.6	124.0
45.7	87.5°	67.4	60.9	39.2	37.0	30.5	19.6	21.8	41.3	67.4	54.4
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



<u>180°</u>
2887.2
3189.7
3296.3
3083.1
2708.8
2341.1
1916.8
1616.6
1431.7
1331.6
1242.4
1131.4
990.0
778.9
557.0
369.9
224.1
180.6
239.3
302.4
332.9
256.7
339.4
322.0
293.7
361.2
352.5
424.3
437.3
483.0
463.4
417.7
376.4
298.1
176.2
102.3
39.2
0.0

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