

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: P477944

Luminaire Tested: **IFLD-M-SA4C-830-U-T3R**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477944  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4C-830-U-T3R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens  
Light Source: (64) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

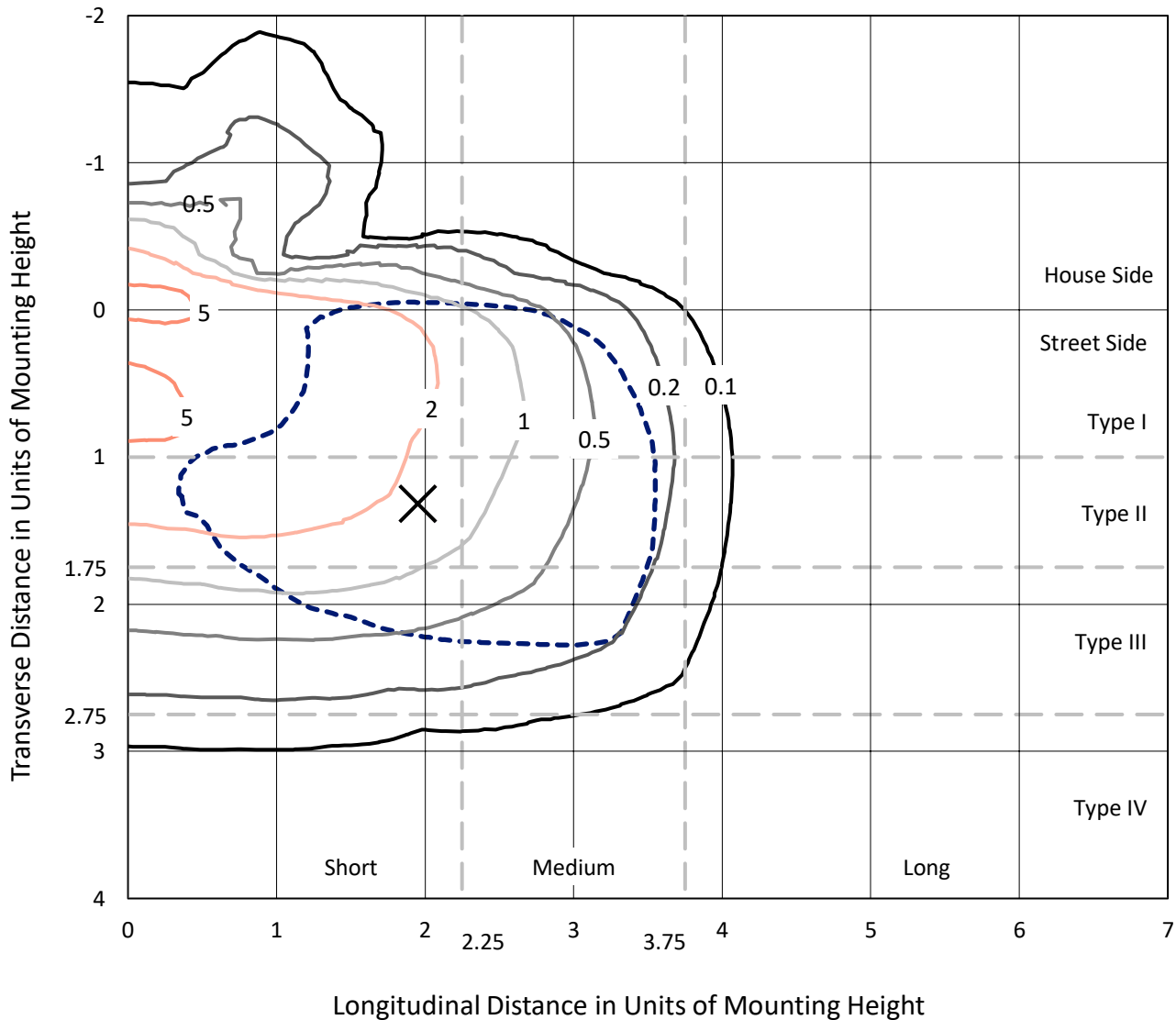
Lumens per Lamp: N/A  
Luminaire Lumens: 22191.9 lumens  
Efficiency: N/A  
Efficacy: 101.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 218.1  
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

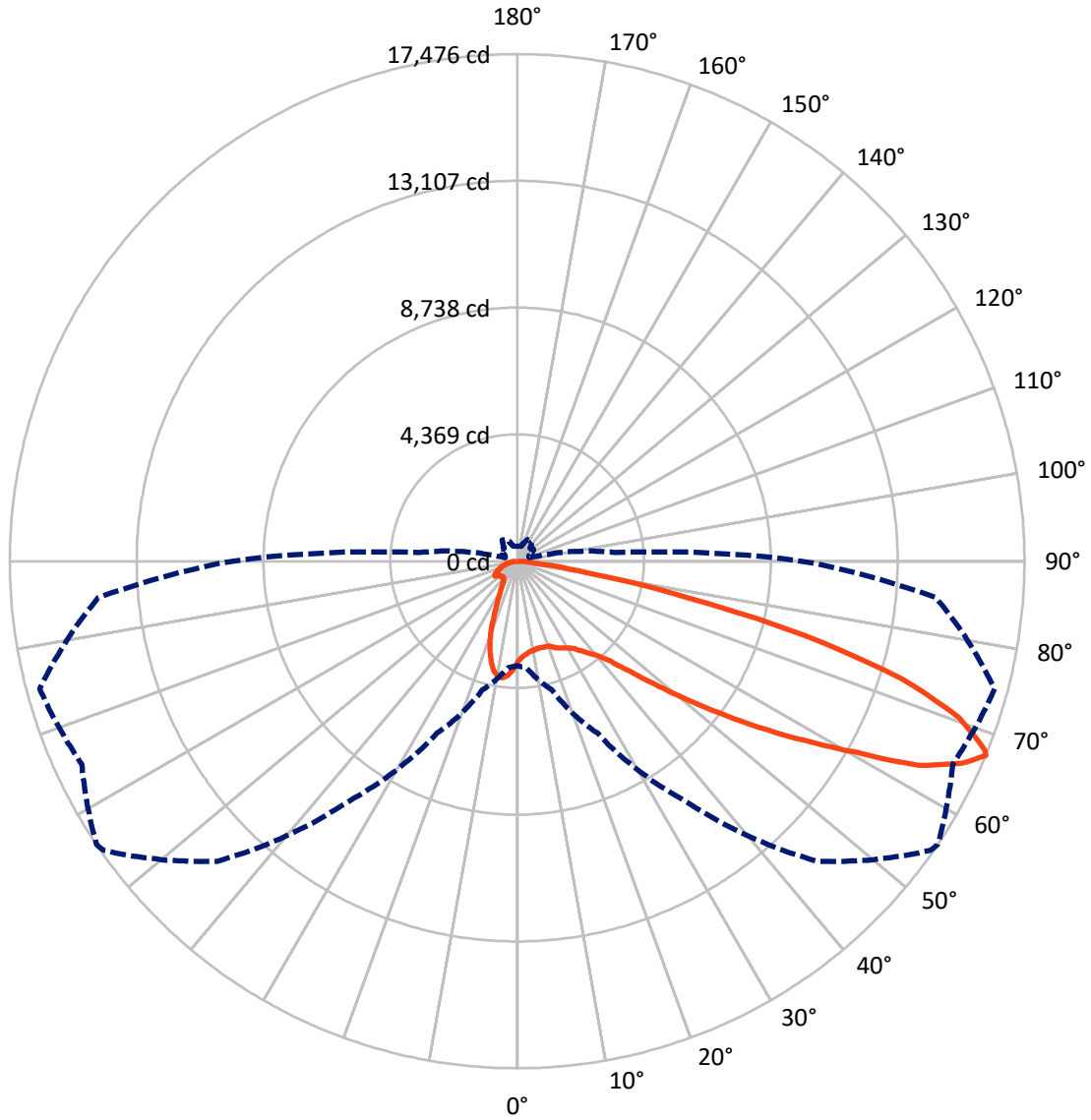
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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
<b>House Side</b>	Lumens	3513.2	0.0	3513.2
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	18678.7	0.0	18678.7
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	22191.9	0.0	22191.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	332.7	1.5
10°-20°	907.5	4.1
20°-30°	1423.3	6.4
30°-40°	2031.7	9.2
40°-50°	3066.4	13.8
50°-60°	4881.2	22.0
60°-70°	6240.3	28.1
70°-80°	3042.6	13.7
80°-90°	266.2	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°	22191.9	100.0
0°-180°	22191.9	100.0

**Coefficient of Utilization**

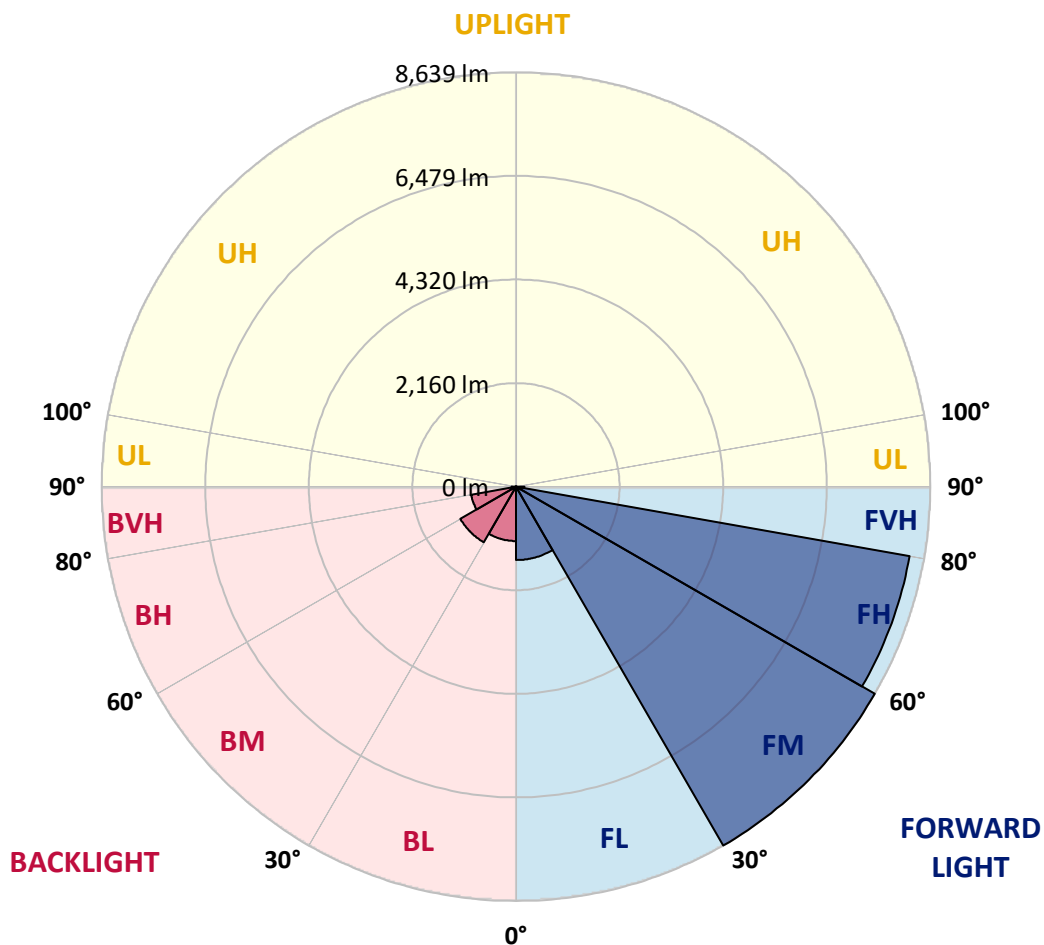


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1529.3	6.9			
FM (30°-60°)	8639.1	38.9			
FH (60°-80°)	8333.5	37.6			G4/12000
FVH (80°-90°)	176.8	0.8			G2/225
BL (0°-30°)	1134.2	5.1	B3/2500		
BM (30°-60°)	1340.3	6.0	B2/2500		
BH (60°-80°)	949.3	4.3	B2/1000		G2/1000
BVH (80°-90°)	89.4	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°	3453.0	3453.0	3453.0	3453.0	3453.0	3453.0	3453.0	3453.0	3453.0	3453.0
2.5°	3172.0	3159.0	3174.6	3159.0	3229.2	3270.8	3283.9	3302.1	3367.1	3429.6
5°	3039.3	2982.0	3044.5	3065.3	3070.5	3140.7	3213.6	3226.6	3260.4	3361.9
7.5°	2818.1	2883.1	2859.7	2922.2	2987.2	3057.5	3177.2	3143.3	3268.2	3364.5
10°	2771.2	2776.4	2802.5	2825.9	2883.1	2974.2	3140.7	3119.9	3247.4	3453.0
12.5°	2818.1	2818.1	2810.3	2792.1	2857.1	2945.6	3078.3	3088.7	3289.1	3479.0
15°	2982.0	3013.2	2930.0	2943.0	2917.0	2945.6	3062.7	3086.1	3304.7	3499.8
17.5°	3382.7	3372.3	3273.5	3135.5	3021.0	3002.8	3083.5	3109.5	3289.1	3559.7
20°	3773.1	3752.2	3580.5	3437.4	3211.0	3104.3	3117.3	3119.9	3315.1	3598.7
22.5°	4207.6	4262.3	4074.9	3783.5	3502.4	3237.0	3185.0	3226.6	3374.9	3619.5
25°	4889.4	4772.3	4610.9	4228.4	3775.7	3442.6	3296.9	3317.7	3432.2	3671.6
27.5°	5381.2	5334.3	5081.9	4772.3	4158.2	3603.9	3356.7	3395.7	3536.3	3669.0
30°	5854.7	5854.7	5701.2	5238.0	4561.5	3874.5	3484.2	3466.0	3486.8	3663.8
32.5°	6409.0	6333.5	6112.3	5805.3	5068.9	4121.7	3585.7	3590.9	3590.9	3760.0
35°	6700.4	6822.7	6674.4	6174.8	5456.6	4532.9	3830.3	3791.3	3762.6	3866.7
37.5°	7127.2	7200.0	7043.9	6749.9	5938.0	4865.9	4046.3	4015.1	3848.5	3950.0
40°	7384.8	7371.8	7366.6	7231.3	6575.5	5258.9	4363.7	4283.1	4059.3	4244.0
42.5°	7530.5	7504.5	7824.5	7741.3	7176.6	5836.5	4761.9	4717.6	4470.4	4767.1
45°	7694.4	7887.0	8149.8	8384.0	7876.6	6648.4	5435.8	5373.4	5152.2	5529.5
47.5°	7837.5	8074.3	8410.0	8659.8	8508.9	7530.5	6268.5	6284.1	6138.4	6526.1
50°	8076.9	8100.4	8555.7	9060.5	9177.6	8345.0	7387.4	7361.4	7296.3	7840.1
52.5°	8004.1	8074.3	8649.4	9294.7	9487.3	9206.3	8589.6	8667.6	8581.7	9266.1
55°	6817.5	7028.3	8592.2	9541.9	10221.1	10179.4	10135.2	10083.2	10078.0	10869.0
57.5°	6278.9	6450.6	7569.5	9815.1	11006.9	11314.0	11600.2	11657.4	11654.8	12609.8
60°	5925.0	6101.9	7155.8	9666.8	11675.7	12799.8	13348.8	13356.6	13341.0	14470.3
62.5°	5232.8	5404.6	6440.2	8855.0	11860.4	14171.1	15394.1	15495.5	14780.0	16073.2
65°	4400.2	4540.7	5454.0	7613.8	11368.6	15042.8	16931.9	16812.2	15992.5	16989.2
67°	3598.7	3692.4	4582.3	6536.5	10083.2	14623.8	17376.9	17475.8	16552.0	17028.2
67.5°	3369.7	3455.6	4296.1	6169.6	9594.0	14306.4	17392.5	17376.9	16562.4	17036.0
70°	2339.3	2375.7	2927.4	4244.0	7067.3	12086.8	16122.7	16159.1	15867.6	16112.2
72.5°	1550.9	1605.5	1956.8	2675.0	4166.0	8795.1	13476.3	13866.6	13681.9	13210.9
75°	999.2	1030.4	1280.2	1592.5	2050.5	5009.1	9955.7	10215.9	9791.7	8170.6
77.5°	559.5	593.3	772.8	968.0	999.2	2084.3	5591.9	5914.6	5011.7	3471.2
80°	348.7	392.9	582.9	575.1	476.2	765.0	2305.5	2469.4	2003.6	1194.4
82.5°	262.8	296.6	450.2	403.3	268.0	340.9	863.9	926.4	733.8	460.6
85°	179.5	226.4	325.3	249.8	140.5	163.9	343.5	369.5	335.7	223.8
87.5°	65.1	96.3	169.1	124.9	62.5	49.4	111.9	124.9	119.7	101.5
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°
3453.0	0°	3453.0	3453.0	3453.0	3453.0	3453.0	3453.0	3453.0	3453.0	3453.0	3453.0
3484.2	2.5°	3533.7	3570.1	3588.3	3695.0	3739.2	3731.4	3741.8	3757.4	3773.1	3793.9
3528.5	5°	3562.3	3674.2	3734.0	3858.9	3942.2	3905.8	3952.6	3939.6	3921.4	3918.8
3609.1	7.5°	3656.0	3799.1	3978.6	4012.4	4048.9	3957.8	3879.7	3773.1	3747.0	3656.0
3676.8	10°	3822.5	3939.6	4158.2	4171.2	4009.8	3775.7	3601.3	3380.1	3377.5	3244.8
3780.9	12.5°	3981.2	4113.9	4290.9	4215.4	3830.3	3510.2	3226.6	2984.6	2883.1	2815.5
3843.3	15°	4080.1	4298.7	4392.4	4067.1	3515.4	3083.5	2716.6	2456.4	2352.3	2302.9
3921.4	17.5°	4171.2	4475.6	4434.0	3806.9	3127.7	2643.7	2206.6	1980.2	1951.6	1915.2
4046.3	20°	4296.1	4540.7	4285.7	3468.6	2688.0	2076.5	1798.1	1688.8	1714.8	1730.4
4059.3	22.5°	4413.2	4574.5	4098.3	3099.1	2123.3	1644.5	1506.6	1530.0	1569.1	1621.1
4090.5	25°	4465.2	4629.1	3845.9	2589.1	1615.9	1384.3	1353.1	1392.1	1457.2	1459.8
4134.7	27.5°	4499.0	4590.1	3541.5	2092.1	1277.6	1210.0	1256.8	1285.4	1293.2	1324.5
4228.4	30°	4558.9	4509.5	3156.4	1496.2	1072.1	1074.7	1134.5	1134.5	1134.5	1157.9
4322.1	32.5°	4663.0	4454.8	2706.2	1092.9	923.7	1007.0	991.4	986.2	975.8	947.2
4441.8	35°	4728.0	4306.5	2136.3	809.3	830.1	923.7	918.5	837.9	702.6	634.9
4746.2	37.5°	4863.3	4231.0	1571.7	624.5	775.4	882.1	853.5	658.3	510.0	445.0
5123.5	40°	5154.8	4181.6	1087.7	546.4	739.0	861.3	762.4	562.1	390.3	275.8
5706.4	42.5°	5511.3	4184.2	739.0	515.2	741.6	905.5	733.8	481.4	275.8	221.2
6484.5	45°	5990.1	4145.2	507.4	515.2	788.4	978.4	752.0	437.2	268.0	281.0
7460.2	47.5°	6505.3	4179.0	377.3	468.4	796.2	981.0	687.0	429.3	257.6	325.3
8521.9	50°	7106.4	4212.8	312.3	431.9	798.8	949.8	632.3	418.9	268.0	343.5
9739.7	52.5°	7725.7	4319.5	265.4	408.5	830.1	936.8	632.3	434.6	268.0	299.2
11290.5	55°	8649.4	4592.7	382.5	510.0	944.6	1022.6	778.0	608.9	374.7	385.1
12776.3	57.5°	9669.4	4873.7	426.7	536.0	970.6	921.1	837.9	671.3	395.5	398.1
13931.7	60°	10340.8	4884.2	424.1	523.0	908.1	796.2	819.7	707.8	403.3	340.9
14647.3	62.5°	10608.8	4566.7	442.4	523.0	845.7	744.2	840.5	762.4	416.3	426.7
14850.2	65°	10304.3	3911.0	426.7	468.4	744.2	666.1	845.7	772.8	455.4	429.3
14485.9	67°	9828.2	3369.7	434.6	445.0	692.2	632.3	889.9	811.9	528.2	515.2
14296.0	67.5°	9692.8	3226.6	431.9	431.9	673.9	621.9	900.3	811.9	538.6	533.4
12617.6	70°	8542.7	2615.1	442.4	426.7	595.9	590.7	957.6	856.1	619.3	624.5
9268.7	72.5°	6502.7	1982.8	439.8	426.7	517.8	564.7	965.4	884.7	673.9	624.5
5191.2	75°	3695.0	1186.6	387.7	372.1	408.5	491.8	902.9	843.1	655.7	559.5
2073.9	77.5°	1527.4	611.5	356.5	335.7	338.3	400.7	752.0	785.8	624.5	476.2
692.2	80°	569.9	366.9	286.2	268.0	260.2	294.0	536.0	627.1	533.4	390.3
304.4	82.5°	296.6	229.0	195.2	195.2	176.9	187.4	288.8	416.3	403.3	268.0
122.3	85°	150.9	130.1	111.9	109.3	98.9	88.5	145.7	247.2	231.6	148.3
54.6	87.5°	80.7	72.9	46.8	44.2	36.4	23.4	26.0	49.4	80.7	65.1
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>
3453.0
3814.7
3942.2
3687.2
3239.6
2799.9
2292.5
1933.4
1712.2
1592.5
1485.8
1353.1
1184.0
931.6
666.1
442.4
268.0
216.0
286.2
361.7
398.1
307.0
405.9
385.1
351.3
431.9
421.5
507.4
523.0
577.7
554.2
499.6
450.2
356.5
210.8
122.3
46.8
0.0

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