

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: P477913

Luminaire Tested: **IFLD-L-SA8A-827-U-T3R**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477913  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-827-U-T3R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R  
distribution lens  
Light Source: (128) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

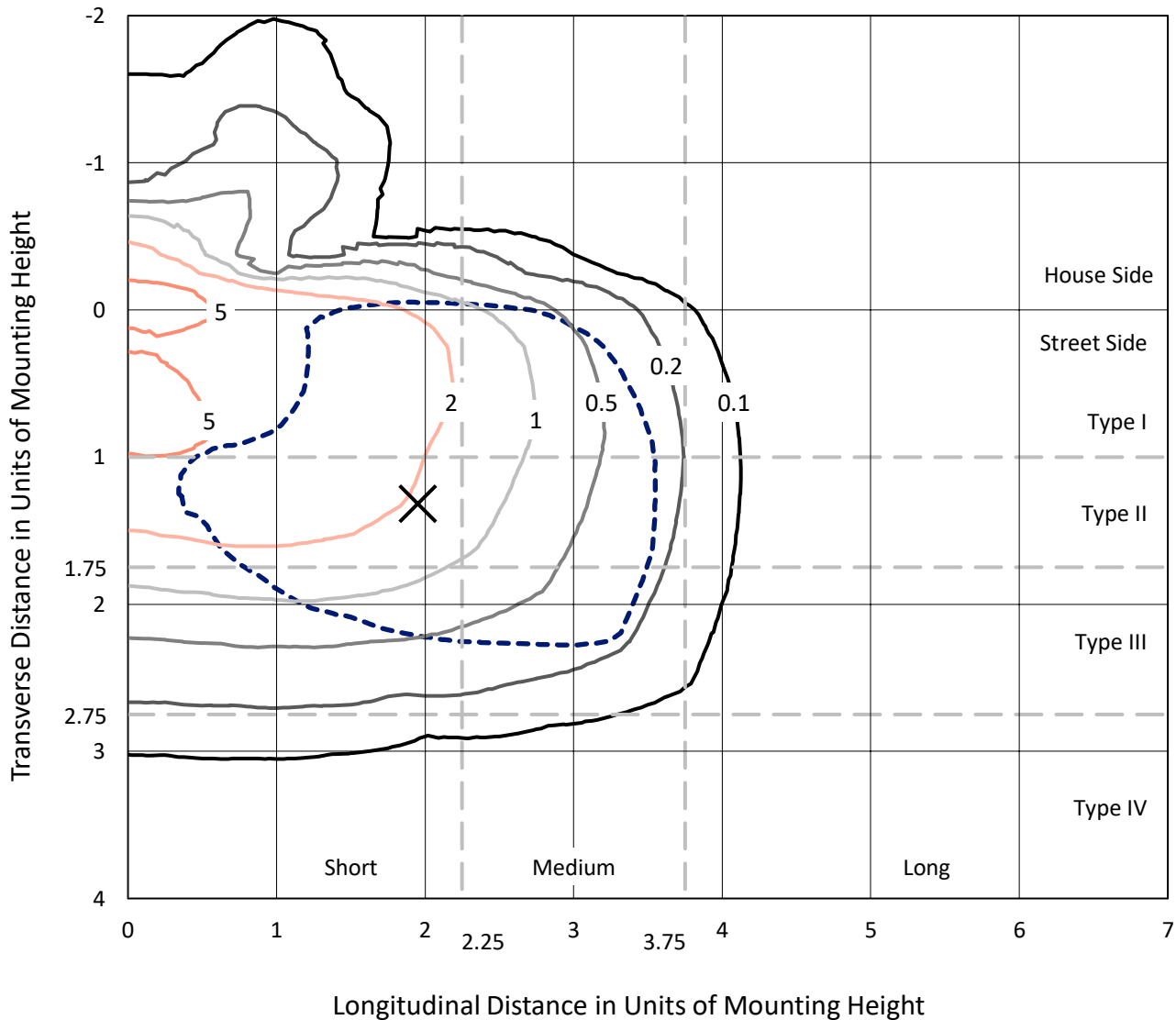
Lumens per Lamp: N/A  
Luminaire Lumens: 24736 lumens  
Efficiency: N/A  
Efficacy: 99.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 247.8  
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

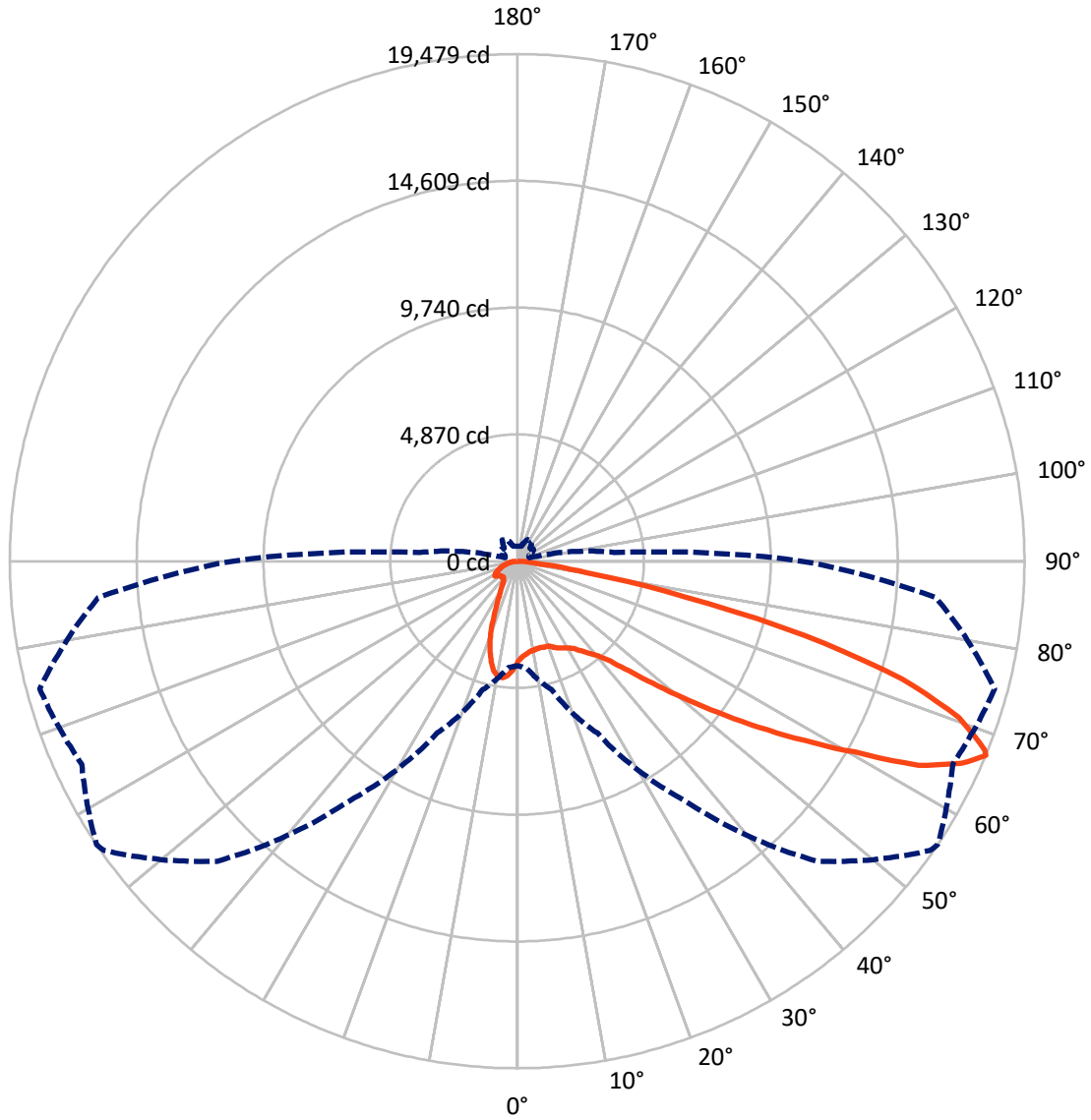
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	3916.0	0.0	3916.0
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	20820.0	0.0	20820.0
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	24736.0	0.0	24736.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	370.8	1.5
10°-20°	1011.6	4.1
20°-30°	1586.4	6.4
30°-40°	2264.6	9.2
40°-50°	3418.0	13.8
50°-60°	5440.8	22.0
60°-70°	6955.7	28.1
70°-80°	3391.4	13.7
80°-90°	296.7	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°	24736.0	100.0
0°-180°	24736.0	100.0

**Coefficient of Utilization**

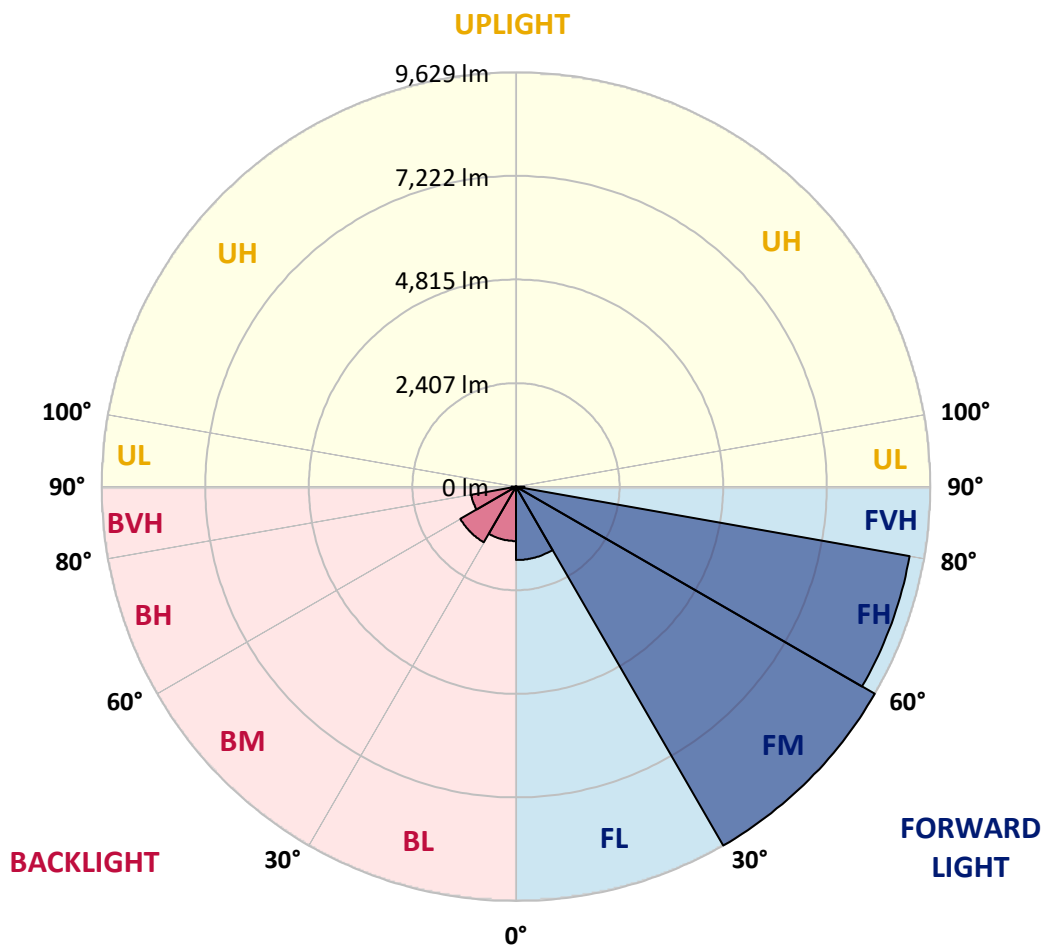


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1704.6	6.9			
FM (30°-60°)	9629.5	38.9			
FH (60°-80°)	9288.9	37.6			G4/12000
FVH (80°-90°)	197.0	0.8			G2/225
BL (0°-30°)	1264.2	5.1	B3/2500		
BM (30°-60°)	1494.0	6.0	B2/2500		
BH (60°-80°)	1058.2	4.3	B3/2500		G3/2500
BVH (80°-90°)	99.6	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°	3848.9	3848.9	3848.9	3848.9	3848.9	3848.9	3848.9	3848.9	3848.9	3848.9
2.5°	3535.6	3521.1	3538.5	3521.1	3599.4	3645.8	3660.3	3680.6	3753.1	3822.7
5°	3387.7	3323.9	3393.5	3416.7	3422.5	3500.8	3582.0	3596.5	3634.2	3747.3
7.5°	3141.1	3213.7	3187.6	3257.2	3329.7	3408.0	3541.4	3503.7	3642.9	3750.2
10°	3088.9	3094.7	3123.7	3149.9	3213.7	3315.2	3500.8	3477.6	3619.7	3848.9
12.5°	3141.1	3141.1	3132.4	3112.1	3184.7	3283.3	3431.2	3442.8	3666.1	3877.9
15°	3323.9	3358.7	3265.9	3280.4	3251.4	3283.3	3413.8	3439.9	3683.5	3901.1
17.5°	3770.5	3758.9	3648.7	3495.0	3367.4	3347.1	3437.0	3466.0	3666.1	3967.8
20°	4205.6	4182.4	3991.0	3831.4	3579.1	3460.2	3474.7	3477.6	3695.1	4011.3
22.5°	4690.0	4750.9	4542.0	4217.2	3904.0	3608.1	3550.1	3596.5	3761.8	4034.5
25°	5449.9	5319.4	5139.5	4713.2	4208.5	3837.2	3674.8	3698.0	3825.6	4092.5
27.5°	5998.1	5945.9	5664.5	5319.4	4634.9	4017.1	3741.5	3785.0	3941.7	4089.6
30°	6525.9	6525.9	6354.8	5838.5	5084.4	4318.7	3883.7	3863.4	3886.6	4083.8
32.5°	7143.7	7059.6	6813.1	6470.8	5650.0	4594.3	3996.8	4002.6	4002.6	4191.1
35°	7468.6	7604.9	7439.6	6882.7	6082.2	5052.5	4269.4	4225.9	4194.0	4310.0
37.5°	7944.2	8025.4	7851.4	7523.7	6618.7	5423.8	4510.1	4475.3	4289.7	4402.8
40°	8231.4	8216.9	8211.1	8060.3	7329.3	5861.7	4864.0	4774.1	4524.6	4730.6
42.5°	8393.8	8364.8	8721.5	8628.7	7999.3	6505.6	5307.8	5258.5	4982.9	5313.6
45°	8576.5	8791.2	9084.1	9345.1	8779.6	7410.6	6059.0	5989.4	5742.8	6163.4
47.5°	8736.0	9000.0	9374.1	9652.6	9484.4	8393.8	6987.1	7004.5	6842.1	7274.2
50°	9002.9	9029.0	9536.6	10099.2	10229.8	9301.6	8234.3	8205.3	8132.8	8739.0
52.5°	8921.7	9000.0	9641.0	10360.3	10574.9	10261.7	9574.3	9661.3	9565.6	10328.4
55°	7599.1	7834.0	9577.2	10635.8	11392.8	11346.4	11297.1	11239.1	11233.3	12115.0
57.5°	6998.7	7190.1	8437.3	10940.4	12268.8	12611.0	12930.0	12993.9	12991.0	14055.4
60°	6604.2	6801.5	7976.1	10775.0	13014.2	14267.1	14879.1	14887.8	14870.4	16129.2
62.5°	5832.7	6024.2	7178.5	9870.1	13220.1	15795.7	17158.9	17272.0	16474.4	17915.9
65°	4904.6	5061.2	6079.3	8486.6	12671.9	16767.3	18873.0	18739.6	17826.0	18936.8
67°	4011.3	4115.7	5107.6	7285.8	11239.1	16300.3	19369.0	19479.2	18449.5	18980.3
67.5°	3756.0	3851.8	4788.6	6876.9	10693.8	15946.5	19386.4	19369.0	18461.1	18989.0
70°	2607.5	2648.1	3263.0	4730.6	7877.5	13472.4	17971.0	18011.6	17686.7	17959.4
72.5°	1728.6	1789.6	2181.1	2981.6	4643.6	9803.4	15021.2	15456.3	15250.4	14725.4
75°	1113.8	1148.6	1427.0	1775.1	2285.5	5583.3	11097.0	11387.0	10914.3	9107.3
77.5°	623.6	661.3	861.4	1079.0	1113.8	2323.2	6233.0	6592.6	5586.2	3869.2
80°	388.7	438.0	649.7	641.0	530.8	852.7	2569.8	2752.5	2233.3	1331.3
82.5°	292.9	330.6	501.8	449.6	298.7	380.0	962.9	1032.5	817.9	513.4
85°	200.1	252.3	362.6	278.4	156.6	182.7	382.9	411.9	374.2	249.4
87.5°	72.5	107.3	188.5	139.2	69.6	55.1	124.7	139.2	133.4	113.1
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°
3848.9	0°	3848.9	3848.9	3848.9	3848.9	3848.9	3848.9	3848.9	3848.9	3848.9	3848.9
3883.7	2.5°	3938.8	3979.4	3999.7	4118.6	4167.9	4159.2	4170.8	4188.2	4205.6	4228.8
3933.0	5°	3970.7	4095.4	4162.1	4301.3	4394.1	4353.5	4405.7	4391.2	4370.9	4368.0
4022.9	7.5°	4075.1	4234.6	4434.7	4472.4	4513.0	4411.5	4324.5	4205.6	4176.6	4075.1
4098.3	10°	4260.7	4391.2	4634.9	4649.4	4469.5	4208.5	4014.2	3767.6	3764.7	3616.8
4214.3	12.5°	4437.6	4585.6	4782.8	4698.7	4269.4	3912.7	3596.5	3326.8	3213.7	3138.2
4283.9	15°	4547.9	4791.5	4895.9	4533.3	3918.5	3437.0	3028.0	2738.0	2622.0	2566.9
4370.9	17.5°	4649.4	4988.7	4942.3	4243.3	3486.3	2946.8	2459.6	2207.2	2175.3	2134.7
4510.1	20°	4788.6	5061.2	4777.0	3866.3	2996.1	2314.5	2004.2	1882.4	1911.4	1928.8
4524.6	22.5°	4919.1	5098.9	4568.2	3454.4	2366.7	1833.1	1679.3	1705.4	1749.0	1807.0
4559.5	25°	4977.1	5159.8	4286.8	2885.9	1801.2	1543.0	1508.2	1551.7	1624.2	1627.1
4608.8	27.5°	5014.8	5116.3	3947.5	2331.9	1424.1	1348.7	1400.9	1432.8	1441.5	1476.3
4713.2	30°	5081.5	5026.4	3518.2	1667.7	1195.0	1197.9	1264.6	1264.6	1264.6	1290.7
4817.6	32.5°	5197.5	4965.5	3016.4	1218.2	1029.6	1122.5	1105.1	1099.3	1087.7	1055.8
4951.0	35°	5270.1	4800.2	2381.2	902.0	925.2	1029.6	1023.8	933.9	783.1	707.7
5290.4	37.5°	5420.9	4716.1	1751.9	696.1	864.3	983.2	951.3	733.8	568.5	496.0
5710.9	40°	5745.7	4661.0	1212.4	609.1	823.7	960.0	849.8	626.5	435.1	307.4
6360.6	42.5°	6143.1	4663.9	823.7	574.3	826.6	1009.3	817.9	536.6	307.4	246.5
7227.8	45°	6676.8	4620.4	565.6	574.3	878.8	1090.6	838.2	487.3	298.7	313.2
8315.5	47.5°	7251.0	4658.1	420.6	522.1	887.5	1093.5	765.7	478.6	287.1	362.6
9498.9	50°	7921.0	4695.8	348.0	481.5	890.4	1058.7	704.8	467.0	298.7	382.9
10856.3	52.5°	8611.3	4814.7	295.8	455.4	925.2	1044.1	704.8	484.4	298.7	333.5
12584.9	55°	9641.0	5119.2	426.4	568.5	1052.9	1139.9	867.2	678.7	417.7	429.3
14241.0	57.5°	10777.9	5432.5	475.7	597.5	1081.9	1026.7	933.9	748.3	440.9	443.8
15528.8	60°	11526.2	5444.1	472.8	583.0	1012.2	887.5	913.6	788.9	449.6	380.0
16326.4	62.5°	11825.0	5090.2	493.1	583.0	942.6	829.5	936.8	849.8	464.1	475.7
16552.7	65°	11485.6	4359.3	475.7	522.1	829.5	742.5	942.6	861.4	507.6	478.6
16146.6	67°	10954.9	3756.0	484.4	496.0	771.5	704.8	991.9	904.9	588.8	574.3
15934.9	67.5°	10804.0	3596.5	481.5	481.5	751.2	693.2	1003.5	904.9	600.4	594.6
14064.1	70°	9522.1	2914.9	493.1	475.7	664.2	658.4	1067.4	954.2	690.3	696.1
10331.3	72.5°	7248.1	2210.1	490.2	475.7	577.2	629.4	1076.1	986.1	751.2	696.1
5786.3	75°	4118.6	1322.6	432.2	414.8	455.4	548.2	1006.4	939.7	730.9	623.6
2311.6	77.5°	1702.5	681.6	397.4	374.2	377.1	446.7	838.2	875.9	696.1	530.8
771.5	80°	635.2	409.0	319.0	298.7	290.0	327.7	597.5	699.0	594.6	435.1
339.3	82.5°	330.6	255.2	217.5	217.5	197.2	208.8	321.9	464.1	449.6	298.7
136.3	85°	168.2	145.0	124.7	121.8	110.2	98.6	162.4	275.5	258.1	165.3
60.9	87.5°	89.9	81.2	52.2	49.3	40.6	26.1	29.0	55.1	89.9	72.5
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>
3848.9
4252.0
4394.1
4109.9
3611.0
3120.8
2555.3
2155.0
1908.5
1775.1
1656.1
1508.2
1319.7
1038.3
742.5
493.1
298.7
240.7
319.0
403.2
443.8
342.2
452.5
429.3
391.6
481.5
469.9
565.6
583.0
643.9
617.8
556.9
501.8
397.4
234.9
136.3
52.2
0.0

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