

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: P477665

Luminaire Tested: **IFLD-S-SA6B-727-U-T3R**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477665  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6B-727-U-T3R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens  
Light Source: (96) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

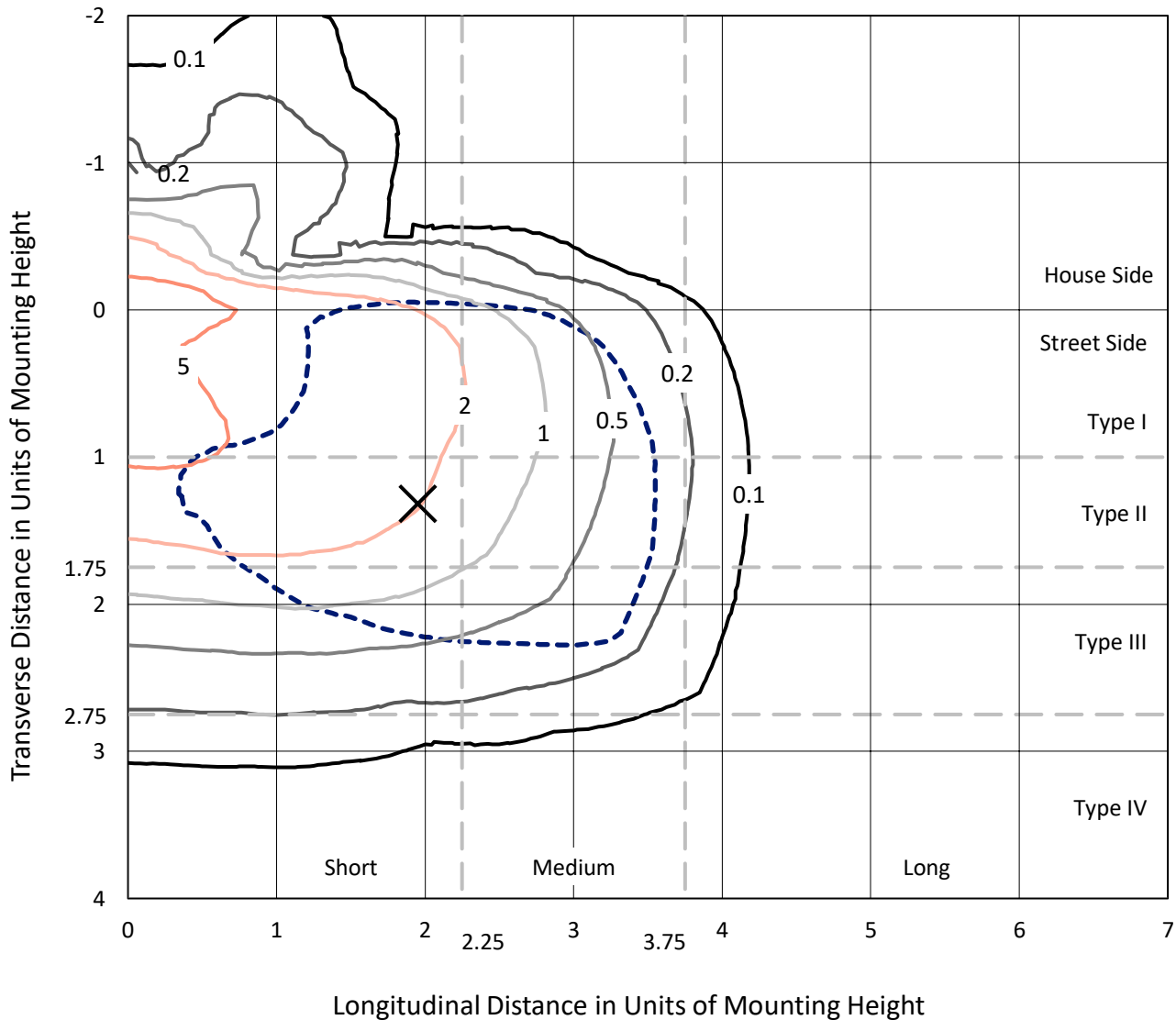
Lumens per Lamp: N/A  
Luminaire Lumens: 27421.2 lumens  
Efficiency: N/A  
Efficacy: 112.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 244.9  
Input Voltage (V): 120  
Input Current (Ain): 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

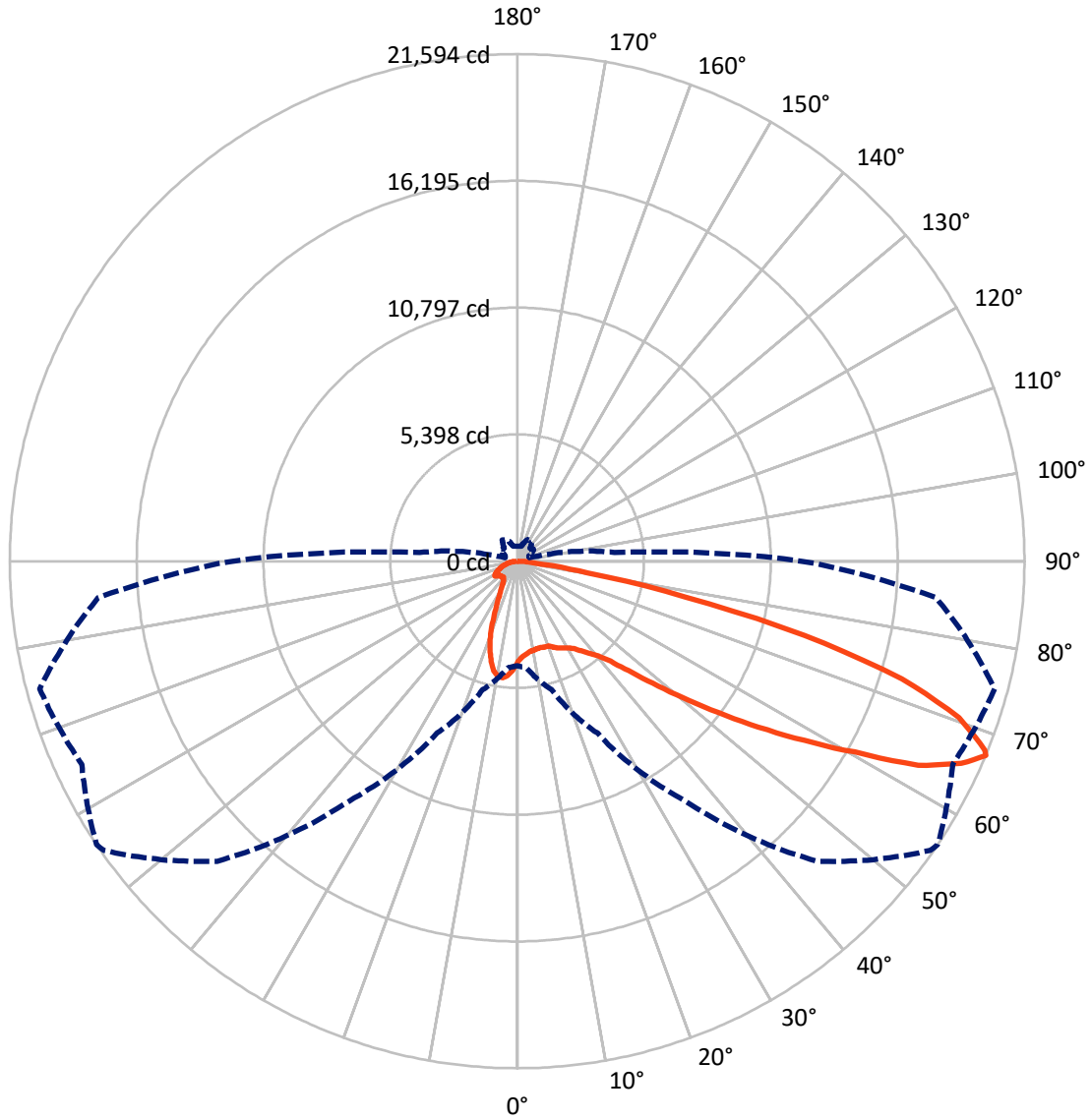
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	4341.1	0.0	4341.1
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	23080.2	0.0	23080.2
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	27421.2	0.0	27421.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	411.0	1.5
10°-20°	1121.4	4.1
20°-30°	1758.6	6.4
30°-40°	2510.5	9.2
40°-50°	3789.0	13.8
50°-60°	6031.5	22.0
60°-70°	7710.8	28.1
70°-80°	3759.5	13.7
80°-90°	328.9	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°	27421.2	100.0
0°-180°	27421.2	100.0

**Coefficient of Utilization**

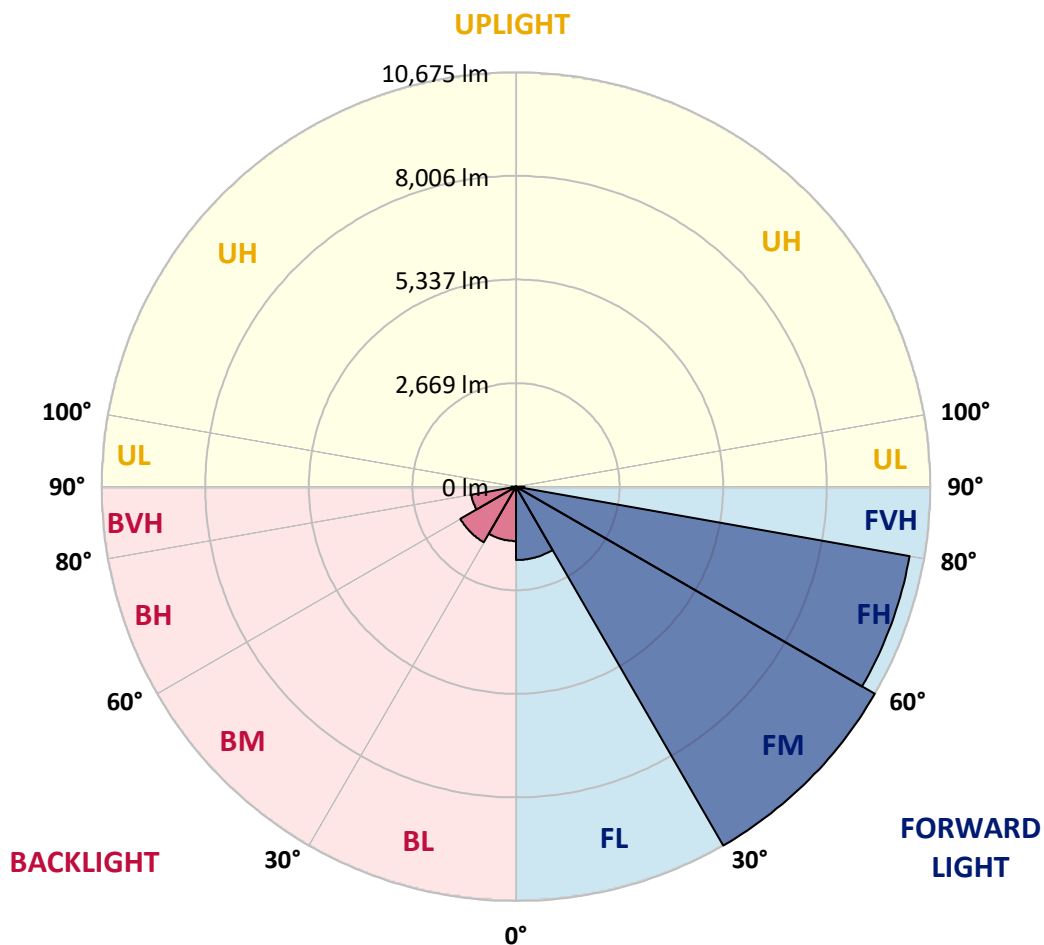


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1889.6	6.9			
FM (30°-60°)	10674.8	38.9			
FH (60°-80°)	10297.3	37.6			G4/12000
FVH (80°-90°)	218.4	0.8			G2/225
BL (0°-30°)	1401.4	5.1	B3/2500		
BM (30°-60°)	1656.2	6.0	B2/2500		
BH (60°-80°)	1173.0	4.3	B3/2500		G3/2500
BVH (80°-90°)	110.5	0.4			G2/225
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°	4266.7	4266.7	4266.7	4266.7	4266.7	4266.7	4266.7	4266.7	4266.7	4266.7
2.5°	3919.4	3903.3	3922.6	3903.3	3990.2	4041.6	4057.7	4080.2	4160.6	4237.7
5°	3755.4	3684.7	3761.9	3787.6	3794.0	3880.8	3970.9	3986.9	4028.7	4154.1
7.5°	3482.1	3562.5	3533.6	3610.8	3691.1	3777.9	3925.9	3884.1	4038.4	4157.4
10°	3424.3	3430.7	3462.9	3491.8	3562.5	3675.1	3880.8	3855.1	4012.7	4266.7
12.5°	3482.1	3482.1	3472.5	3450.0	3530.4	3639.7	3803.7	3816.5	4064.1	4298.8
15°	3684.7	3723.3	3620.4	3636.5	3604.3	3639.7	3784.4	3813.3	4083.4	4324.5
17.5°	4179.9	4167.0	4044.8	3874.4	3732.9	3710.4	3810.1	3842.3	4064.1	4398.5
20°	4662.1	4636.4	4424.2	4247.4	3967.7	3835.8	3851.9	3855.1	4096.3	4446.7
22.5°	5199.1	5266.6	5035.1	4675.0	4327.8	3999.8	3935.5	3986.9	4170.2	4472.4
25°	6041.5	5896.8	5697.5	5224.8	4665.4	4253.8	4073.8	4099.5	4240.9	4536.8
27.5°	6649.2	6591.3	6279.4	5896.8	5138.0	4453.2	4147.7	4195.9	4369.6	4533.5
30°	7234.4	7234.4	7044.7	6472.4	5636.4	4787.5	4305.3	4282.7	4308.5	4527.1
32.5°	7919.2	7826.0	7552.7	7173.3	6263.4	5093.0	4430.7	4437.1	4437.1	4646.1
35°	8279.3	8430.5	8247.2	7629.8	6742.4	5601.0	4732.9	4684.7	4649.3	4777.9
37.5°	8806.6	8896.7	8703.8	8340.4	7337.3	6012.6	4999.8	4961.2	4755.4	4880.8
40°	9125.0	9108.9	9102.4	8935.3	8125.0	6498.1	5392.0	5292.3	5015.8	5244.1
42.5°	9305.0	9272.9	9668.3	9565.4	8867.7	7211.9	5884.0	5829.3	5523.8	5890.4
45°	9507.6	9745.5	10070.2	10359.6	9732.6	8215.0	6716.7	6639.5	6366.2	6832.5
47.5°	9684.4	9977.0	10391.8	10700.4	10514.0	9305.0	7745.6	7764.9	7584.8	8063.9
50°	9980.2	10009.2	10571.8	11195.6	11340.3	10311.4	9128.2	9096.0	9015.6	9687.6
52.5°	9890.2	9977.0	10687.6	11485.0	11722.9	11375.6	10613.6	10710.1	10604.0	11449.6
55°	8424.0	8684.5	10616.8	11790.4	12629.6	12578.2	12523.5	12459.2	12452.8	13430.2
57.5°	7758.5	7970.7	9353.2	12128.0	13600.6	13980.0	14333.7	14404.4	14401.2	15581.2
60°	7321.2	7539.8	8842.0	11944.7	14426.9	15815.9	16494.4	16504.0	16484.7	17880.1
62.5°	6465.9	6678.1	7957.8	10941.6	14655.2	17510.4	19021.6	19147.0	18262.8	19860.8
65°	5437.0	5610.7	6739.2	9407.9	14047.5	18587.5	20921.8	20773.9	19761.1	20992.5
67°	4446.7	4562.5	5662.1	8076.8	12459.2	18069.9	21471.6	21593.8	20452.4	21040.8
67.5°	4163.8	4269.9	5308.4	7623.4	11854.7	17677.6	21490.9	21471.6	20465.2	21050.4
70°	2890.5	2935.5	3617.2	5244.1	8732.7	14935.0	19921.8	19966.9	19606.8	19909.0
72.5°	1916.3	1983.8	2417.9	3305.3	5147.7	10867.6	16651.9	17134.2	16905.9	16324.0
75°	1234.7	1273.2	1581.9	1967.7	2533.6	6189.4	12301.6	12623.2	12099.1	10096.0
77.5°	691.3	733.1	954.9	1196.1	1234.7	2575.4	6909.6	7308.3	6192.6	4289.2
80°	430.8	485.5	720.2	710.6	588.4	945.3	2848.7	3051.3	2475.8	1475.8
82.5°	324.7	366.5	556.2	498.4	331.2	421.2	1067.5	1144.6	906.7	569.1
85°	221.9	279.7	401.9	308.7	173.6	202.6	424.4	456.6	414.8	276.5
87.5°	80.4	119.0	209.0	154.3	77.2	61.1	138.3	154.3	147.9	125.4
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°
4266.7	0°	4266.7	4266.7	4266.7	4266.7	4266.7	4266.7	4266.7	4266.7	4266.7	4266.7
4305.3	2.5°	4366.3	4411.4	4433.9	4565.7	4620.4	4610.7	4623.6	4642.9	4662.1	4687.9
4359.9	5°	4401.7	4540.0	4613.9	4768.3	4871.1	4826.1	4884.0	4867.9	4845.4	4842.2
4459.6	7.5°	4517.5	4694.3	4916.2	4958.0	5003.0	4890.4	4794.0	4662.1	4630.0	4517.5
4543.2	10°	4723.2	4867.9	5138.0	5154.1	4954.7	4665.4	4449.9	4176.6	4173.4	4009.4
4671.8	12.5°	4919.4	5083.4	5302.0	5208.7	4732.9	4337.4	3986.9	3687.9	3562.5	3478.9
4749.0	15°	5041.6	5311.6	5427.4	5025.5	4343.8	3810.1	3356.7	3035.2	2906.6	2845.5
4845.4	17.5°	5154.1	5530.3	5478.8	4703.9	3864.8	3266.7	2726.6	2446.8	2411.5	2366.4
4999.8	20°	5308.4	5610.7	5295.6	4286.0	3321.4	2565.8	2221.8	2086.7	2118.9	2138.2
5015.8	22.5°	5453.1	5652.5	5064.1	3829.4	2623.7	2032.1	1861.6	1890.6	1938.8	2003.1
5054.4	25°	5517.4	5720.0	4752.2	3199.2	1996.7	1710.5	1671.9	1720.2	1800.6	1803.8
5109.1	27.5°	5559.2	5671.7	4376.0	2585.1	1578.7	1495.1	1553.0	1588.3	1598.0	1636.6
5224.8	30°	5633.2	5572.1	3900.1	1848.8	1324.7	1327.9	1401.9	1401.9	1401.9	1430.8
5340.6	32.5°	5761.8	5504.6	3343.9	1350.4	1141.4	1244.3	1225.0	1218.6	1205.7	1170.4
5488.5	35°	5842.2	5321.3	2639.7	1000.0	1025.7	1141.4	1135.0	1035.3	868.1	784.5
5864.7	37.5°	6009.4	5228.0	1942.0	771.7	958.2	1090.0	1054.6	813.5	630.2	549.8
6330.9	40°	6369.5	5166.9	1344.0	675.2	913.1	1064.3	942.1	694.5	482.3	340.8
7051.1	42.5°	6810.0	5170.2	913.1	636.6	916.4	1118.9	906.7	594.8	340.8	273.3
8012.5	45°	7401.6	5121.9	627.0	636.6	974.2	1208.9	929.2	540.2	331.2	347.2
9218.2	47.5°	8038.2	5163.7	466.2	578.7	983.9	1212.2	848.8	530.5	318.3	401.9
10530.0	50°	8780.9	5205.5	385.8	533.7	987.1	1173.6	781.3	517.7	331.2	424.4
12034.8	52.5°	9546.2	5337.4	328.0	504.8	1025.7	1157.5	781.3	537.0	331.2	369.8
13951.1	55°	10687.6	5675.0	472.6	630.2	1167.1	1263.6	961.4	752.4	463.0	475.9
15787.0	57.5°	11948.0	6022.2	527.3	662.3	1199.3	1138.2	1035.3	829.5	488.7	491.9
17214.6	60°	12777.5	6035.1	524.1	646.3	1122.1	983.9	1012.8	874.6	498.4	421.2
18098.8	62.5°	13108.7	5642.8	546.6	646.3	1045.0	919.6	1038.5	942.1	514.4	527.3
18349.6	65°	12732.5	4832.6	527.3	578.7	919.6	823.1	1045.0	954.9	562.7	530.5
17899.4	67°	12144.1	4163.8	537.0	549.8	855.3	781.3	1099.6	1003.2	652.7	636.6
17664.7	67.5°	11976.9	3986.9	533.7	533.7	832.8	768.5	1112.5	1003.2	665.6	659.1
15590.9	70°	10555.8	3231.4	546.6	527.3	736.3	729.9	1183.2	1057.8	765.2	771.7
11452.8	72.5°	8035.0	2450.0	543.4	527.3	639.8	697.7	1192.9	1093.2	832.8	771.7
6414.5	75°	4565.7	1466.2	479.1	459.8	504.8	607.7	1115.7	1041.7	810.2	691.3
2562.6	77.5°	1887.4	755.6	440.5	414.8	418.0	495.2	929.2	971.0	771.7	588.4
855.3	80°	704.1	453.4	353.7	331.2	321.5	363.3	662.3	774.9	659.1	482.3
376.2	82.5°	366.5	282.9	241.1	241.1	218.6	231.5	356.9	514.4	498.4	331.2
151.1	85°	186.5	160.8	138.3	135.0	122.2	109.3	180.1	305.5	286.2	183.3
67.5	87.5°	99.7	90.0	57.9	54.7	45.0	28.9	32.2	61.1	99.7	80.4
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>
4266.7
4713.6
4871.1
4556.0
4003.0
3459.6
2832.7
2388.9
2115.7
1967.7
1835.9
1671.9
1463.0
1151.1
823.1
546.6
331.2
266.9
353.7
446.9
491.9
379.4
501.6
475.9
434.1
533.7
520.9
627.0
646.3
713.8
684.9
617.3
556.2
440.5
260.4
151.1
57.9
0.0

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