

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: P477914

Luminaire Tested: **IFLD-L-SA8B-827-U-T3R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P477914  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-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**

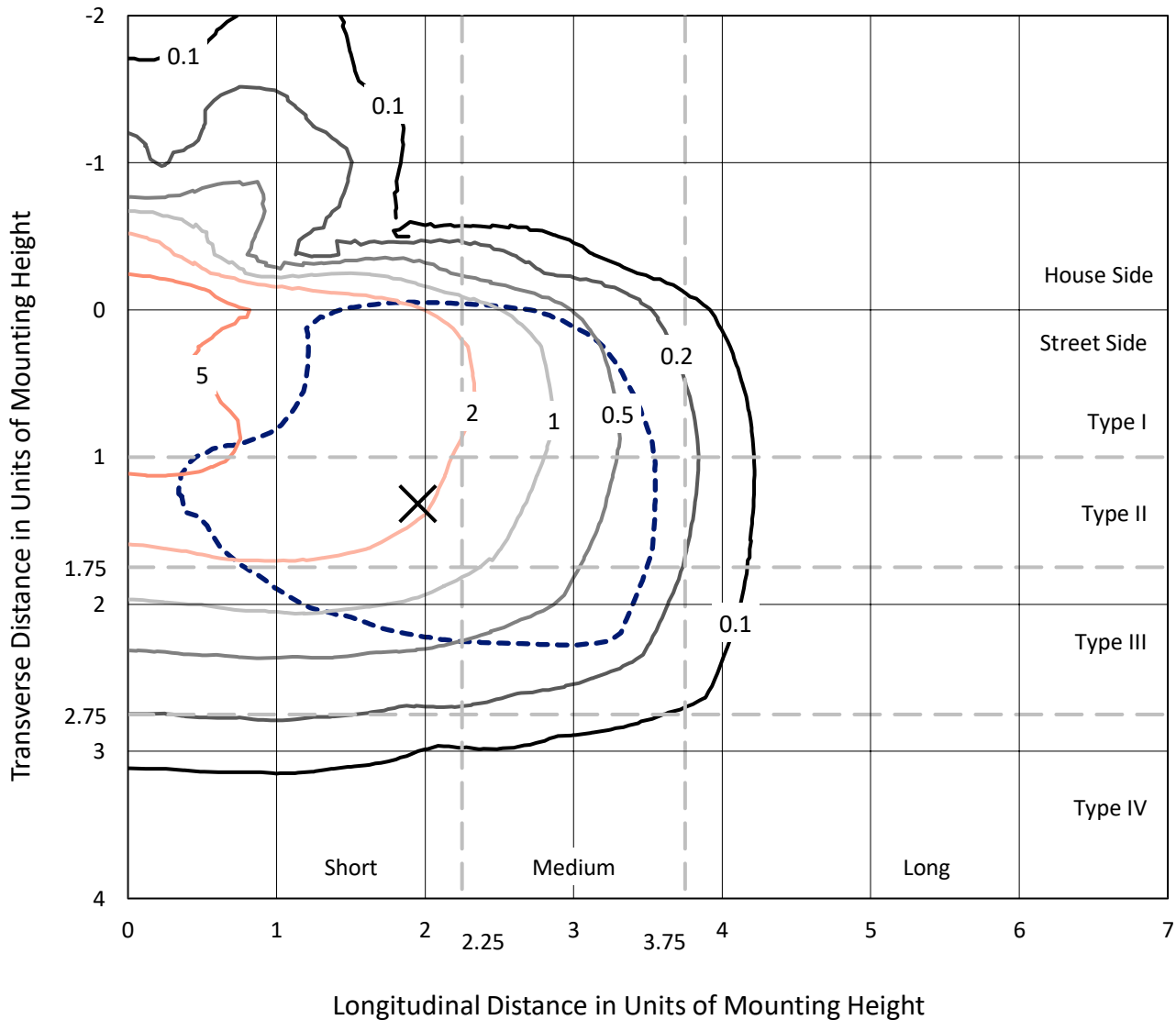
Lumens per Lamp: N/A  
Luminaire Lumens: 29388 lumens  
Efficiency: N/A  
Efficacy: 91.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 320  
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

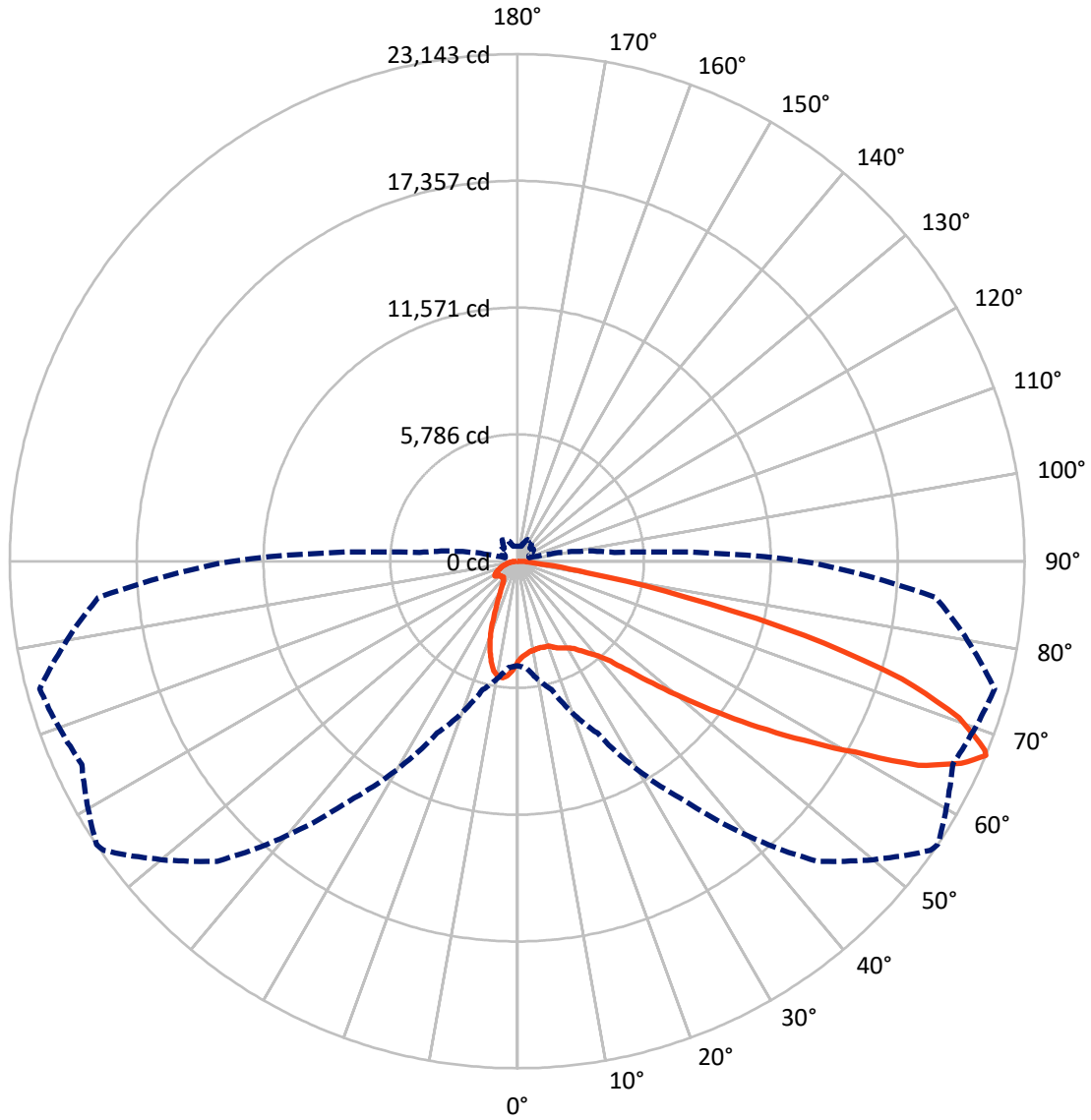
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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	4652.4	0.0	4652.4
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	24735.6	0.0	24735.6
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	29388.0	0.0	29388.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	440.5	1.5
10°-20°	1201.8	4.1
20°-30°	1884.8	6.4
30°-40°	2690.5	9.2
40°-50°	4060.8	13.8
50°-60°	6464.1	22.0
60°-70°	8263.8	28.1
70°-80°	4029.2	13.7
80°-90°	352.5	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°	29388.0	100.0
0°-180°	29388.0	100.0

**Coefficient of Utilization**

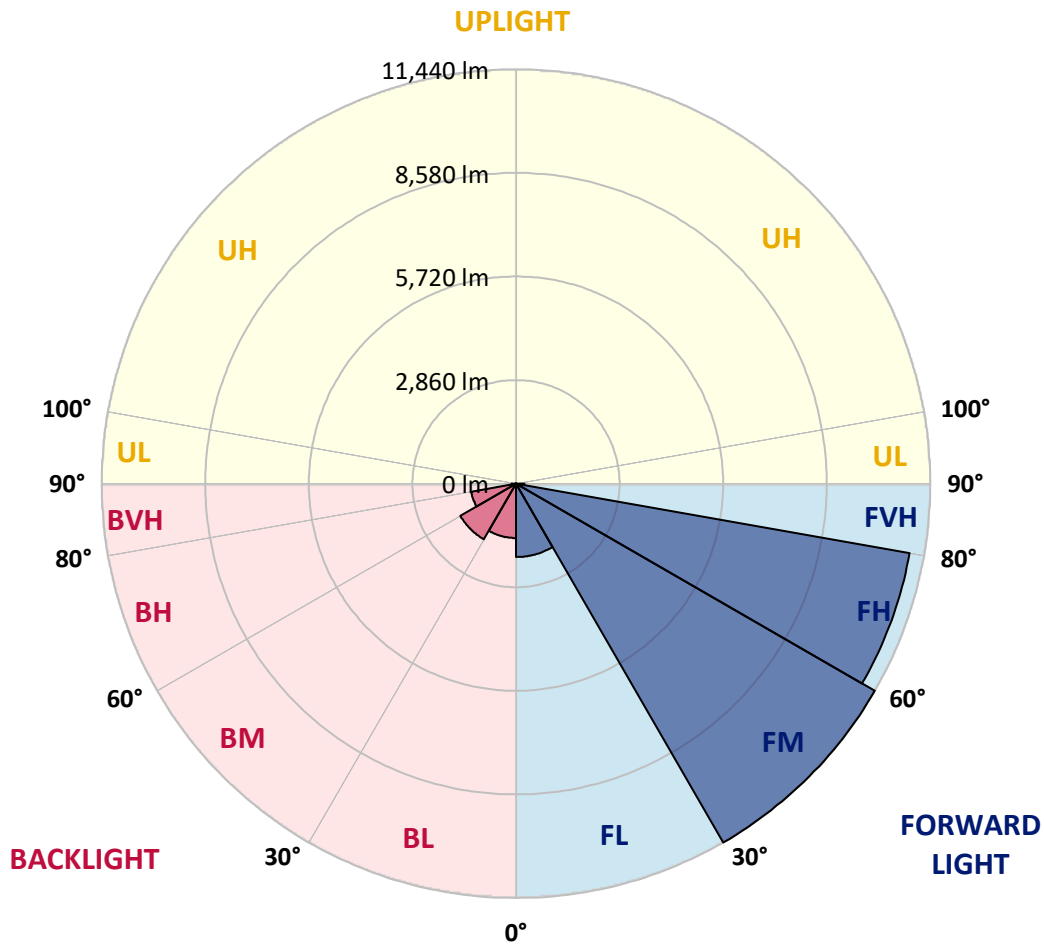


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2025.2	6.9			
FM (30°-60°)	11440.5	38.9			
FH (60°-80°)	11035.8	37.6			G4/12000
FVH (80°-90°)	234.1	0.8			G3/500
BL (0°-30°)	1501.9	5.1	B3/2500		
BM (30°-60°)	1774.9	6.0	B2/2500		
BH (60°-80°)	1257.2	4.3	B3/2500		G3/2500
BVH (80°-90°)	118.4	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°	4572.7	4572.7	4572.7	4572.7	4572.7	4572.7	4572.7	4572.7	4572.7	4572.7
2.5°	4200.5	4183.3	4204.0	4183.3	4276.3	4331.5	4348.7	4372.8	4459.0	4541.7
5°	4024.8	3949.0	4031.7	4059.3	4066.1	4159.2	4255.7	4272.9	4317.7	4452.1
7.5°	3731.9	3818.0	3787.0	3869.7	3955.9	4048.9	4207.4	4162.6	4328.0	4455.5
10°	3669.9	3676.8	3711.2	3742.2	3818.0	3938.6	4159.2	4131.6	4300.5	4572.7
12.5°	3731.9	3731.9	3721.6	3697.4	3783.6	3900.7	4076.5	4090.3	4355.6	4607.1
15°	3949.0	3990.3	3880.1	3897.3	3862.8	3900.7	4055.8	4086.8	4376.3	4634.7
17.5°	4479.7	4465.9	4334.9	4152.3	4000.7	3976.6	4083.4	4117.8	4355.6	4714.0
20°	4996.5	4969.0	4741.5	4552.0	4252.2	4110.9	4128.2	4131.6	4390.1	4765.7
22.5°	5572.0	5644.4	5396.3	5010.3	4638.2	4286.7	4217.8	4272.9	4469.3	4793.2
25°	6474.8	6319.8	6106.1	5599.6	5000.0	4558.9	4365.9	4393.5	4545.1	4862.1
27.5°	7126.1	7064.1	6729.8	6319.8	5506.5	4772.6	4445.2	4496.9	4683.0	4858.7
30°	7753.2	7753.2	7549.9	6936.6	6040.6	5130.9	4614.0	4589.9	4617.5	4851.8
32.5°	8487.2	8387.3	8094.4	7687.8	6712.6	5458.3	4748.4	4755.3	4755.3	4979.3
35°	8873.2	9035.1	8838.7	8177.1	7226.0	6002.7	5072.3	5020.7	4982.8	5120.6
37.5°	9438.3	9534.8	9328.0	8938.6	7863.5	6443.8	5358.4	5317.0	5096.5	5230.9
40°	9779.4	9762.2	9755.3	9576.1	8707.8	6964.1	5778.7	5671.9	5375.6	5620.2
42.5°	9972.4	9937.9	10361.8	10251.5	9503.8	7729.1	6306.0	6247.4	5920.0	6312.9
45°	10189.5	10444.5	10792.5	11102.6	10430.7	8804.2	7198.5	7115.8	6822.9	7322.5
47.5°	10379.0	10692.6	11137.1	11467.9	11268.0	9972.4	8301.1	8321.8	8128.8	8642.3
50°	10696.0	10727.0	11330.1	11998.6	12153.6	11051.0	9782.9	9748.4	9662.3	10382.5
52.5°	10599.5	10692.6	11454.1	12308.7	12563.7	12191.5	11374.9	11478.2	11364.5	12270.8
55°	9028.2	9307.3	11378.3	12636.1	13535.4	13480.3	13421.7	13352.8	13345.9	14393.5
57.5°	8314.9	8542.3	10024.1	12997.9	14576.1	14982.7	15361.8	15437.6	15434.1	16698.8
60°	7846.3	8080.6	9476.2	12801.5	15461.7	16950.3	17677.4	17687.7	17667.1	19162.6
62.5°	6929.7	7157.1	8528.6	11726.3	15706.3	18766.3	20385.9	20520.2	19572.6	21285.2
65°	5827.0	6013.1	7222.6	10082.7	15055.1	19920.7	22422.4	22263.9	21178.4	22498.2
67°	4765.7	4889.7	6068.2	8656.1	13352.8	19365.9	23011.6	23142.6	21919.3	22549.9
67.5°	4462.4	4576.1	5689.2	8170.2	12705.0	18945.5	23032.3	23011.6	21933.1	22560.2
70°	3097.9	3146.1	3876.6	5620.2	9359.0	16006.1	21350.7	21398.9	21013.0	21336.9
72.5°	2053.7	2126.1	2591.3	3542.4	5516.9	11647.1	17846.2	18363.1	18118.5	17494.8
75°	1323.2	1364.6	1695.4	2108.9	2715.4	6633.3	13184.0	13528.5	12966.9	10820.1
77.5°	740.9	785.7	1023.4	1281.9	1323.2	2760.2	7405.2	7832.5	6636.8	4596.8
80°	461.7	520.3	771.9	761.5	630.6	1013.1	3053.1	3270.1	2653.3	1581.7
82.5°	348.0	392.8	596.1	534.1	354.9	451.4	1144.0	1226.7	971.7	609.9
85°	237.8	299.8	430.7	330.8	186.1	217.1	454.9	489.3	444.5	296.3
87.5°	86.1	127.5	224.0	165.4	82.7	65.5	148.2	165.4	158.5	134.4
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°
4572.7	0°	4572.7	4572.7	4572.7	4572.7	4572.7	4572.7	4572.7	4572.7	4572.7	4572.7
4614.0	2.5°	4679.5	4727.8	4751.9	4893.2	4951.7	4941.4	4955.2	4975.9	4996.5	5024.1
4672.6	5°	4717.4	4865.6	4944.8	5110.2	5220.5	5172.3	5234.3	5217.1	5192.9	5189.5
4779.4	7.5°	4841.5	5031.0	5268.8	5313.6	5361.8	5241.2	5137.8	4996.5	4962.1	4841.5
4869.0	10°	5062.0	5217.1	5506.5	5523.8	5310.1	5000.0	4769.1	4476.2	4472.8	4297.0
5006.9	12.5°	5272.2	5447.9	5682.3	5582.3	5072.3	4648.5	4272.9	3952.4	3818.0	3728.4
5089.6	15°	5403.1	5692.6	5816.7	5385.9	4655.4	4083.4	3597.5	3252.9	3115.1	3049.6
5192.9	17.5°	5523.8	5926.9	5871.8	5041.3	4142.0	3501.0	2922.1	2622.3	2584.4	2536.2
5358.4	20°	5689.2	6013.1	5675.4	4593.4	3559.6	2749.8	2381.1	2236.4	2270.8	2291.5
5375.6	22.5°	5844.2	6057.9	5427.3	4104.0	2811.8	2177.8	1995.2	2026.2	2077.9	2146.8
5416.9	25°	5913.1	6130.2	5093.0	3428.7	2139.9	1833.2	1791.9	1843.5	1929.7	1933.1
5475.5	27.5°	5957.9	6078.5	4689.8	2770.5	1691.9	1602.3	1664.4	1702.3	1712.6	1754.0
5599.6	30°	6037.2	5971.7	4179.9	1981.4	1419.7	1423.2	1502.4	1502.4	1502.4	1533.4
5723.6	32.5°	6175.0	5899.4	3583.7	1447.3	1223.3	1333.6	1312.9	1306.0	1292.2	1254.3
5882.1	35°	6261.2	5702.9	2829.1	1071.7	1099.2	1223.3	1216.4	1109.6	930.4	840.8
6285.3	37.5°	6440.4	5603.0	2081.3	827.0	1026.9	1168.2	1130.3	871.8	675.4	589.2
6784.9	40°	6826.3	5537.5	1440.4	723.6	978.6	1140.6	1009.6	744.3	516.9	365.3
7556.8	42.5°	7298.4	5541.0	978.6	682.3	982.1	1199.2	971.7	637.5	365.3	292.9
8587.1	45°	7932.4	5489.3	671.9	682.3	1044.1	1295.7	995.9	578.9	354.9	372.2
9879.4	47.5°	8614.7	5534.1	499.7	620.3	1054.4	1299.1	909.7	568.6	341.1	430.7
11285.3	50°	9410.7	5578.9	413.5	572.0	1057.9	1257.7	837.4	554.8	354.9	454.9
12897.9	52.5°	10230.8	5720.2	351.5	541.0	1099.2	1240.5	837.4	575.5	354.9	396.3
14951.7	55°	11454.1	6082.0	506.5	675.4	1250.9	1354.2	1030.3	806.3	496.2	510.0
16919.3	57.5°	12804.9	6454.1	565.1	709.9	1285.3	1219.8	1109.6	889.0	523.8	527.2
18449.3	60°	13693.9	6467.9	561.7	692.6	1202.6	1054.4	1085.5	937.3	534.1	451.4
19396.9	62.5°	14048.9	6047.5	585.8	692.6	1119.9	985.5	1113.0	1009.6	551.3	565.1
19665.7	65°	13645.7	5179.2	565.1	620.3	985.5	882.1	1119.9	1023.4	603.0	568.6
19183.2	67°	13015.1	4462.4	575.5	589.2	916.6	837.4	1178.5	1075.1	699.5	682.3
18931.7	67.5°	12835.9	4272.9	572.0	572.0	892.5	823.6	1192.3	1075.1	713.3	706.4
16709.1	70°	11312.8	3463.1	585.8	565.1	789.1	782.2	1268.1	1133.7	820.1	827.0
12274.2	72.5°	8611.3	2625.8	582.4	565.1	685.7	747.8	1278.4	1171.6	892.5	827.0
6874.5	75°	4893.2	1571.3	513.4	492.8	541.0	651.3	1195.7	1116.5	868.4	740.9
2746.4	77.5°	2022.7	809.8	472.1	444.5	448.0	530.7	995.9	1040.7	827.0	630.6
916.6	80°	754.6	485.9	379.0	354.9	344.6	389.4	709.9	830.5	706.4	516.9
403.2	82.5°	392.8	303.2	258.4	258.4	234.3	248.1	382.5	551.3	534.1	354.9
162.0	85°	199.9	172.3	148.2	144.7	130.9	117.2	193.0	327.4	306.7	196.4
72.4	87.5°	106.8	96.5	62.0	58.6	48.2	31.0	34.5	65.5	106.8	86.1
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





180°
4572.7
5051.7
5220.5
4882.8
4290.1
3707.8
3035.8
2560.3
2267.4
2108.9
1967.6
1791.9
1567.9
1233.6
882.1
585.8
354.9
286.0
379.0
479.0
527.2
406.6
537.6
510.0
465.2
572.0
558.2
671.9
692.6
765.0
734.0
661.6
596.1
472.1
279.1
162.0
62.0
0.0

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