

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: P477843

Luminaire Tested: **IFLD-S-SA2E-760-U-T3R**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477843  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2E-760-U-T3R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens  
Light Source: (32) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

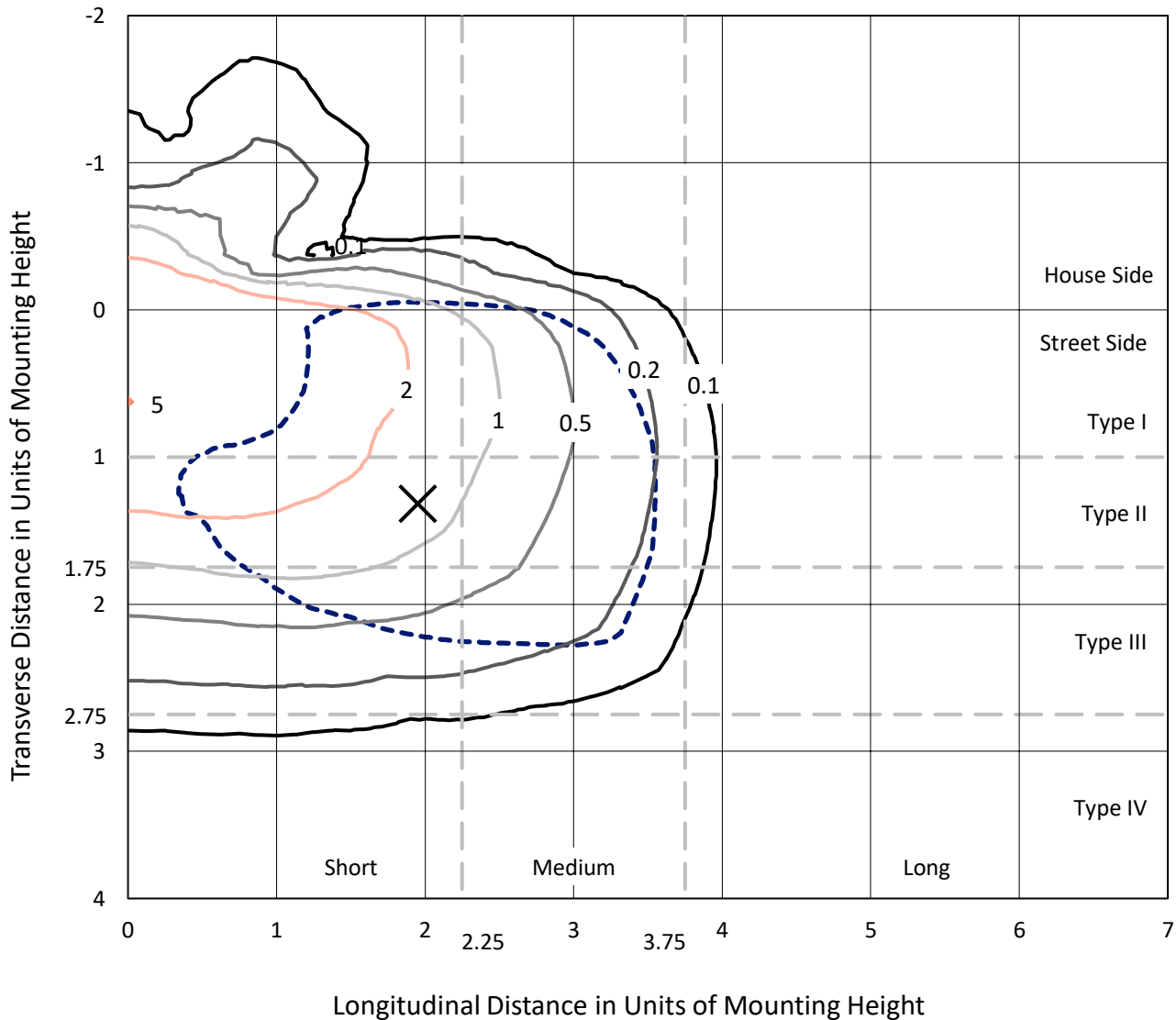
Lumens per Lamp: N/A  
Luminaire Lumens: 18186.1 lumens  
Efficiency: N/A  
Efficacy: 116.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 156.2  
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

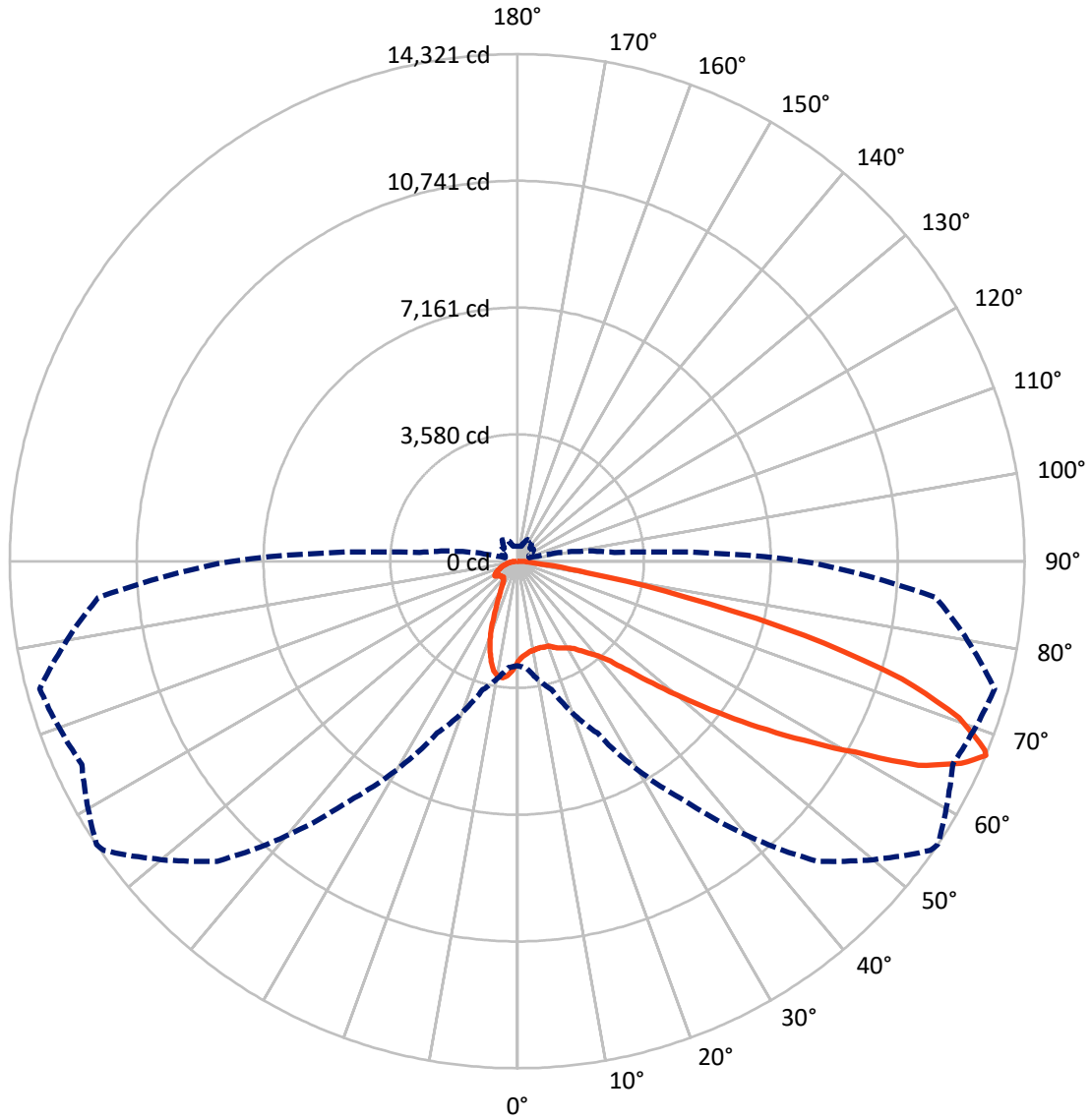
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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	2879.0	0.0	2879.0
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	15307.0	0.0	15307.0
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	18186.1	0.0	18186.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	272.6	1.5
10°-20°	743.7	4.1
20°-30°	1166.3	6.4
30°-40°	1665.0	9.2
40°-50°	2512.9	13.8
50°-60°	4000.2	22.0
60°-70°	5113.9	28.1
70°-80°	2493.4	13.7
80°-90°	218.1	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°	18186.1	100.0
0°-180°	18186.1	100.0

**Coefficient of Utilization**

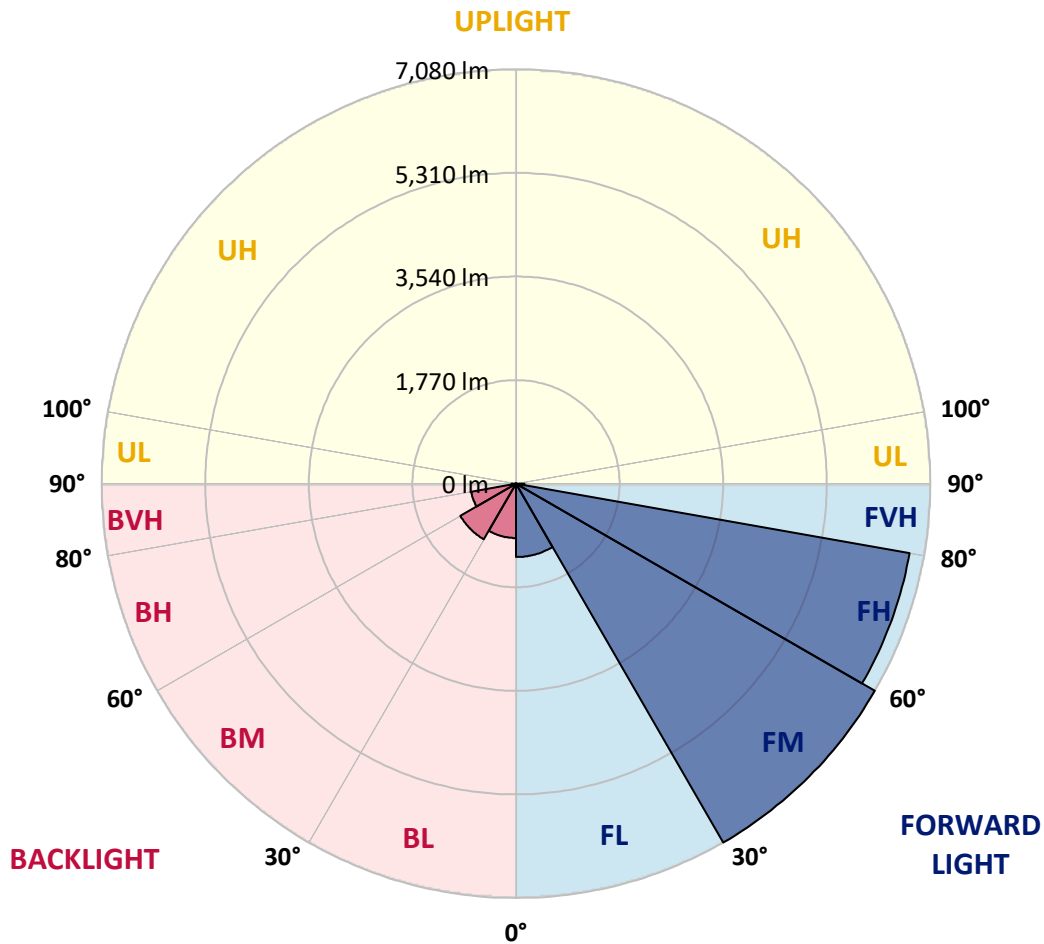


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1253.2	6.9			
FM (30°-60°)	7079.7	38.9			
FH (60°-80°)	6829.3	37.6			G3/7500
FVH (80°-90°)	144.9	0.8			G2/225
BL (0°-30°)	929.4	5.1	B2/1000		
BM (30°-60°)	1098.4	6.0	B2/2500		
BH (60°-80°)	778.0	4.3	B2/1000		G2/1000
BVH (80°-90°)	73.3	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°	2829.7	2829.7	2829.7	2829.7	2829.7	2829.7	2829.7	2829.7	2829.7	2829.7
2.5°	2599.4	2588.7	2601.5	2588.7	2646.3	2680.4	2691.1	2706.0	2759.3	2810.5
5°	2490.7	2443.7	2494.9	2512.0	2516.2	2573.8	2633.5	2644.2	2671.9	2755.1
7.5°	2309.4	2362.7	2343.5	2394.7	2448.0	2505.6	2603.7	2576.0	2678.3	2757.2
10°	2271.0	2275.3	2296.6	2315.8	2362.7	2437.3	2573.8	2556.8	2661.2	2829.7
12.5°	2309.4	2309.4	2303.0	2288.1	2341.4	2413.9	2522.6	2531.2	2695.4	2851.0
15°	2443.7	2469.3	2401.1	2411.8	2390.4	2413.9	2509.8	2529.0	2708.2	2868.1
17.5°	2772.1	2763.6	2682.6	2569.6	2475.7	2460.8	2526.9	2548.2	2695.4	2917.1
20°	3092.0	3074.9	2934.2	2816.9	2631.4	2544.0	2554.6	2556.8	2716.7	2949.1
22.5°	3448.1	3492.9	3339.4	3100.5	2870.2	2652.7	2610.1	2644.2	2765.7	2966.2
25°	4006.8	3910.8	3778.6	3465.2	3094.1	2821.2	2701.8	2718.8	2812.6	3008.8
27.5°	4409.8	4371.4	4164.6	3910.8	3407.6	2953.4	2750.8	2782.8	2897.9	3006.7
30°	4797.9	4797.9	4672.1	4292.5	3738.1	3175.2	2855.3	2840.4	2857.4	3002.4
32.5°	5252.1	5190.3	5009.0	4757.4	4153.9	3377.7	2938.5	2942.7	2942.7	3081.3
35°	5491.0	5591.2	5469.6	5060.2	4471.7	3714.7	3138.9	3106.9	3083.5	3168.8
37.5°	5840.7	5900.4	5772.4	5531.5	4866.2	3987.6	3315.9	3290.3	3153.8	3237.0
40°	6051.8	6041.1	6036.9	5926.0	5388.6	4309.6	3576.1	3509.9	3326.6	3478.0
42.5°	6171.2	6149.9	6412.2	6343.9	5881.2	4783.0	3902.3	3866.1	3663.5	3906.6
45°	6305.5	6463.3	6678.7	6870.6	6454.8	5448.3	4454.6	4403.4	4222.2	4531.4
47.5°	6422.8	6616.9	6891.9	7096.7	6973.0	6171.2	5137.0	5149.8	5030.4	5348.1
50°	6619.0	6638.2	7011.4	7425.0	7521.0	6838.6	6053.9	6032.6	5979.3	6424.9
52.5°	6559.3	6616.9	7088.1	7617.0	7774.8	7544.5	7039.1	7103.1	7032.7	7593.5
55°	5586.9	5759.6	7041.2	7819.5	8376.1	8342.0	8305.7	8263.1	8258.8	8907.1
57.5°	5145.5	5286.2	6203.2	8043.4	9020.1	9271.7	9506.3	9553.2	9551.1	10333.7
60°	4855.5	5000.5	5864.1	7921.9	9568.1	10489.3	10939.3	10945.7	10932.9	11858.3
62.5°	4288.3	4429.0	5277.7	7256.6	9719.5	11613.1	12615.3	12698.5	12112.1	13171.9
65°	3605.9	3721.1	4469.5	6239.4	9316.5	12327.5	13875.6	13777.5	13105.8	13922.5
67°	2949.1	3025.9	3755.2	5356.6	8263.1	11984.1	14240.2	14321.3	13564.3	13954.5
67.5°	2761.5	2831.8	3520.6	5055.9	7862.2	11724.0	14253.0	14240.2	13572.8	13960.9
70°	1917.0	1946.9	2399.0	3478.0	5791.6	9905.0	13212.4	13242.3	13003.4	13203.9
72.5°	1270.9	1315.7	1603.6	2192.1	3414.0	7207.5	11043.7	11363.6	11212.2	10826.2
75°	818.8	844.4	1049.1	1305.0	1680.3	4104.9	8158.6	8371.8	8024.3	6695.8
77.5°	458.5	486.2	633.3	793.3	818.8	1708.1	4582.5	4847.0	4107.0	2844.6
80°	285.7	322.0	477.7	471.3	390.2	626.9	1889.3	2023.7	1642.0	978.8
82.5°	215.4	243.1	368.9	330.5	219.6	279.3	708.0	759.1	601.3	377.4
85°	147.1	185.5	266.6	204.7	115.2	134.3	281.5	302.8	275.1	183.4
87.5°	53.3	78.9	138.6	102.4	51.2	40.5	91.7	102.4	98.1	83.2
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°
2829.7	0°	2829.7	2829.7	2829.7	2829.7	2829.7	2829.7	2829.7	2829.7	2829.7	2829.7
2855.3	2.5°	2895.8	2925.7	2940.6	3028.0	3064.3	3057.9	3066.4	3079.2	3092.0	3109.1
2891.5	5°	2919.3	3011.0	3060.0	3162.4	3230.6	3200.7	3239.1	3228.5	3213.5	3211.4
2957.7	7.5°	2996.0	3113.3	3260.5	3288.2	3318.0	3243.4	3179.4	3092.0	3070.7	2996.0
3013.1	10°	3132.5	3228.5	3407.6	3418.3	3286.0	3094.1	2951.3	2770.0	2767.9	2659.1
3098.4	12.5°	3262.6	3371.3	3516.3	3454.5	3138.9	2876.6	2644.2	2445.9	2362.7	2307.3
3149.6	15°	3343.6	3522.7	3599.5	3333.0	2880.9	2526.9	2226.2	2013.0	1927.7	1887.2
3213.5	17.5°	3418.3	3667.7	3633.6	3119.7	2563.2	2166.5	1808.3	1622.8	1599.3	1569.5
3315.9	20°	3520.6	3721.1	3512.1	2842.5	2202.8	1701.7	1473.5	1383.9	1405.3	1418.1
3326.6	22.5°	3616.6	3748.8	3358.5	2539.7	1740.0	1347.7	1234.7	1253.9	1285.8	1328.5
3352.1	25°	3659.2	3793.6	3151.7	2121.7	1324.2	1134.4	1108.9	1140.8	1194.1	1196.3
3388.4	27.5°	3686.9	3761.6	2902.2	1714.5	1047.0	991.6	1030.0	1053.4	1059.8	1085.4
3465.2	30°	3736.0	3695.5	2586.6	1226.1	878.6	880.7	929.7	929.7	929.7	948.9
3541.9	32.5°	3821.3	3650.7	2217.7	895.6	757.0	825.2	812.4	808.2	799.7	776.2
3640.0	35°	3874.6	3529.1	1750.7	663.2	680.2	757.0	752.7	686.6	575.8	520.3
3889.5	37.5°	3985.5	3467.3	1288.0	511.8	635.5	722.9	699.4	539.5	418.0	364.6
4198.7	40°	4224.3	3426.8	891.3	447.8	605.6	705.8	624.8	460.6	319.9	226.0
4676.4	42.5°	4516.4	3428.9	605.6	422.2	607.7	742.1	601.3	394.5	226.0	181.3
5314.0	45°	4908.8	3396.9	415.8	422.2	646.1	801.8	616.3	358.2	219.6	230.3
6113.6	47.5°	5331.0	3424.6	309.2	383.8	652.5	803.9	563.0	351.8	211.1	266.6
6983.6	50°	5823.6	3452.4	255.9	354.0	654.6	778.3	518.2	343.3	219.6	281.5
7981.6	52.5°	6331.1	3539.8	217.5	334.8	680.2	767.7	518.2	356.1	219.6	245.2
9252.5	55°	7088.1	3763.7	313.5	418.0	774.1	838.0	637.6	499.0	307.1	315.6
10470.1	57.5°	7924.0	3994.0	349.7	439.3	795.4	754.9	686.6	550.2	324.1	326.3
11416.9	60°	8474.2	4002.5	347.6	428.6	744.2	652.5	671.7	580.0	330.5	279.3
12003.3	62.5°	8693.8	3742.4	362.5	428.6	693.0	609.9	688.8	624.8	341.2	349.7
12169.7	65°	8444.3	3205.0	349.7	383.8	609.9	545.9	693.0	633.3	373.2	351.8
11871.1	67°	8054.1	2761.5	356.1	364.6	567.2	518.2	729.3	665.3	432.9	422.2
11715.5	67.5°	7943.2	2644.2	354.0	354.0	552.3	509.6	737.8	665.3	441.4	437.1
10340.1	70°	7000.7	2143.1	362.5	349.7	488.3	484.1	784.7	701.6	507.5	511.8
7595.6	72.5°	5328.9	1624.9	360.4	349.7	424.3	462.7	791.1	725.0	552.3	511.8
4254.2	75°	3028.0	972.4	317.7	304.9	334.8	403.0	739.9	690.9	537.4	458.5
1699.5	77.5°	1251.7	501.1	292.1	275.1	277.2	328.4	616.3	644.0	511.8	390.2
567.2	80°	467.0	300.7	234.6	219.6	213.2	241.0	439.3	513.9	437.1	319.9
249.5	82.5°	243.1	187.7	159.9	159.9	145.0	153.5	236.7	341.2	330.5	219.6
100.2	85°	123.7	106.6	91.7	89.6	81.0	72.5	119.4	202.6	189.8	121.5
44.8	87.5°	66.1	59.7	38.4	36.3	29.9	19.2	21.3	40.5	66.1	53.3
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°
2829.7
3126.1
3230.6
3021.6
2654.8
2294.5
1878.7
1584.4
1403.1
1305.0
1217.6
1108.9
970.2
763.4
545.9
362.5
219.6
177.0
234.6
296.4
326.3
251.6
332.7
315.6
287.9
354.0
345.5
415.8
428.6
473.4
454.2
409.4
368.9
292.1
172.7
100.2
38.4
0.0

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