

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: P477908

Luminaire Tested: **IFLD-L-SA7A-827-U-T3R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477908
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-827-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

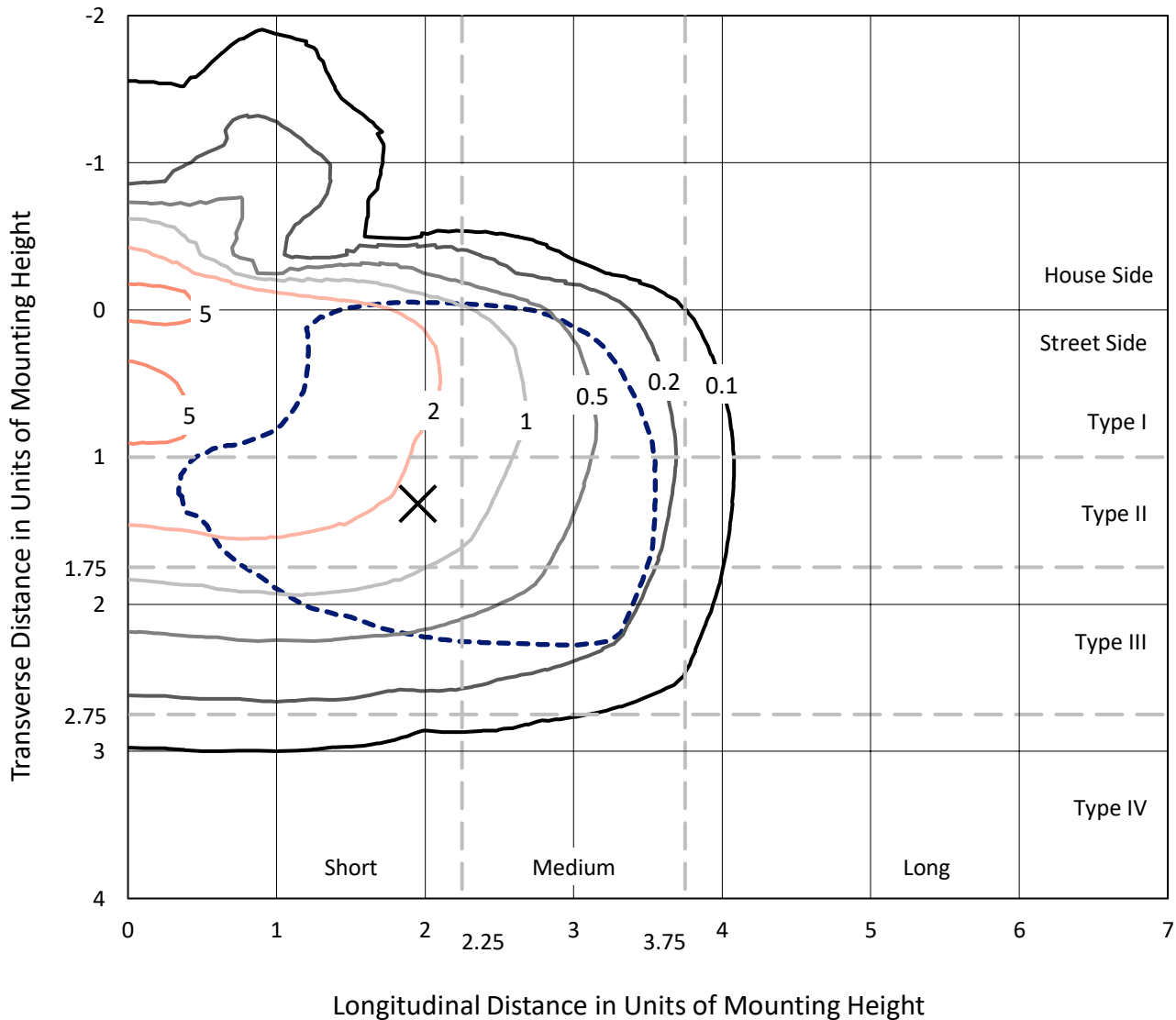
Lumens per Lamp: N/A
Luminaire Lumens: 22601.7 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (A_{in}): 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

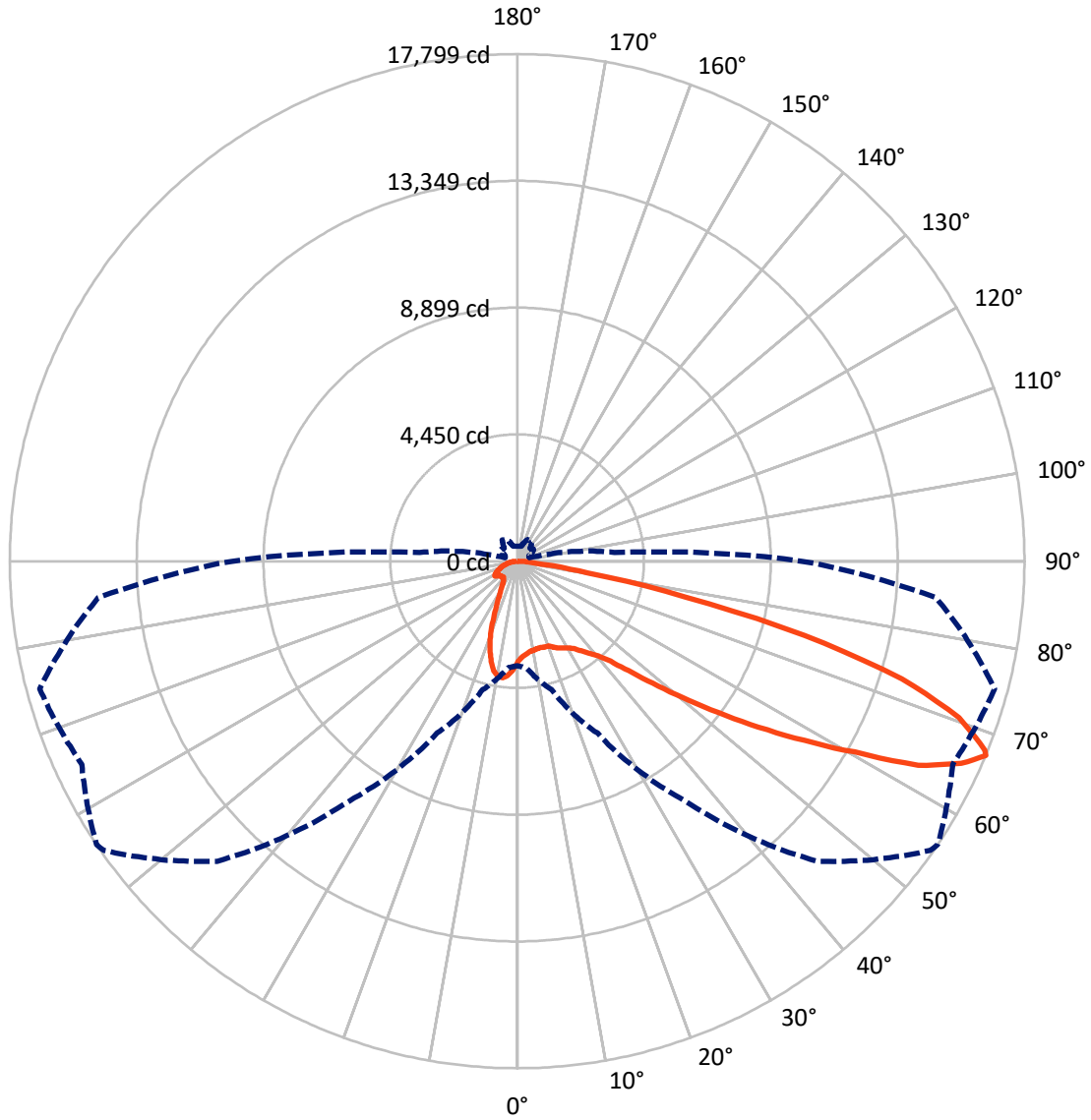
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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
House Side	Lumens	3578.1	0.0	3578.1
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	19023.6	0.0	19023.6
	% Fixture	84.2	0.0	84.2
Total	Lumens	22601.7	0.0	22601.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.8	1.5
10°-20°	924.3	4.1
20°-30°	1449.5	6.4
30°-40°	2069.2	9.2
40°-50°	3123.1	13.8
50°-60°	4971.4	22.0
60°-70°	6355.5	28.1
70°-80°	3098.8	13.7
80°-90°	271.1	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°	22601.7	100.0
0°-180°	22601.7	100.0

Coefficient of Utilization

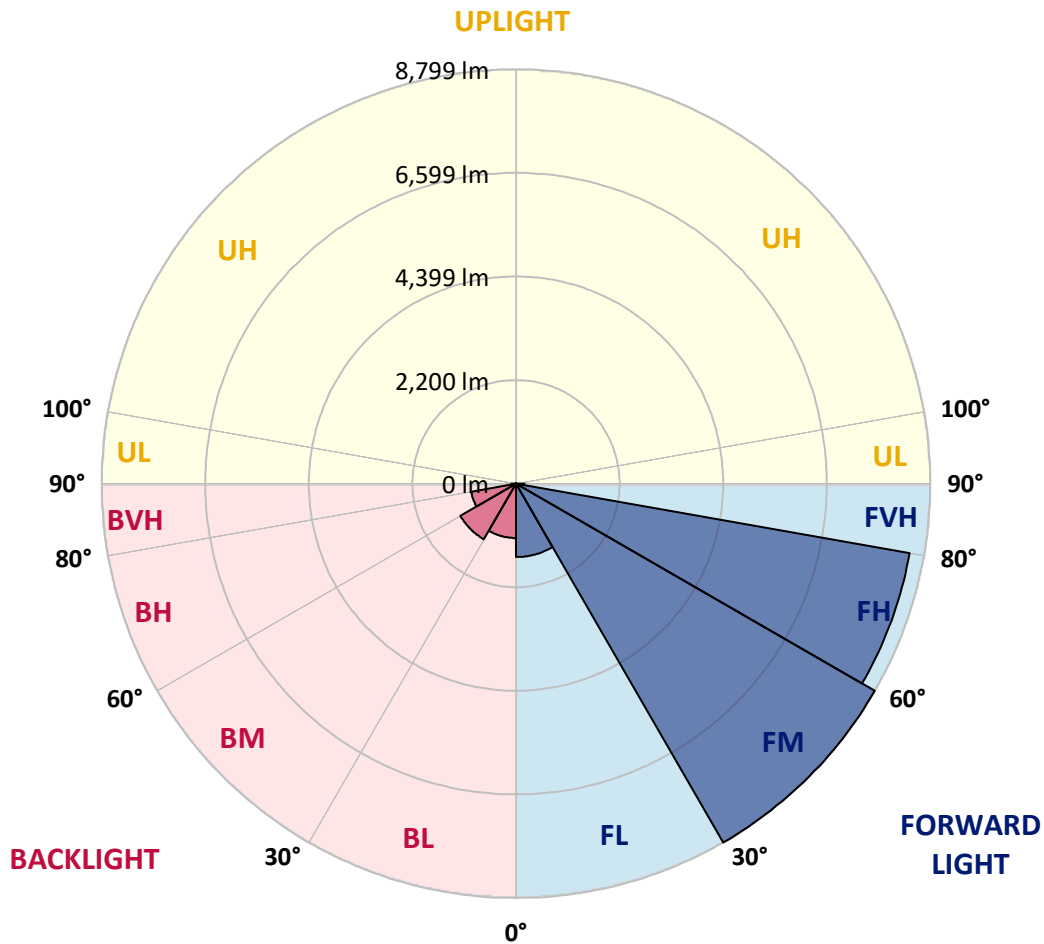


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1557.5	6.9			
FM (30°-60°)	8798.6	38.9			
FH (60°-80°)	8487.4	37.6			G4/12000
FVH (80°-90°)	180.0	0.8			G2/225
BL (0°-30°)	1155.1	5.1	B3/2500		
BM (30°-60°)	1365.1	6.0	B2/2500		
BH (60°-80°)	966.9	4.3	B2/1000		G2/1000
BVH (80°-90°)	91.1	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°	3516.8	3516.8	3516.8	3516.8	3516.8	3516.8	3516.8	3516.8	3516.8	3516.8
2.5°	3230.5	3217.3	3233.2	3217.3	3288.8	3331.3	3344.5	3363.1	3429.3	3492.9
5°	3095.4	3037.1	3100.7	3121.9	3127.2	3198.7	3272.9	3286.2	3320.7	3424.0
7.5°	2870.1	2936.4	2912.5	2976.1	3042.4	3113.9	3235.8	3201.4	3328.6	3426.7
10°	2822.4	2827.7	2854.2	2878.1	2936.4	3029.1	3198.7	3177.5	3307.4	3516.8
12.5°	2870.1	2870.1	2862.2	2843.6	2909.9	3000.0	3135.1	3145.7	3349.8	3543.3
15°	3037.1	3068.9	2984.1	2997.3	2970.8	3000.0	3119.2	3143.1	3365.7	3564.5
17.5°	3445.2	3434.6	3333.9	3193.4	3076.8	3058.3	3140.4	3166.9	3349.8	3625.4
20°	3842.7	3821.5	3646.6	3500.9	3270.3	3161.6	3174.9	3177.5	3376.3	3665.2
22.5°	4285.3	4341.0	4150.2	3853.3	3567.1	3296.8	3243.8	3286.2	3437.3	3686.4
25°	4979.7	4860.4	4696.1	4306.5	3845.4	3506.2	3357.8	3379.0	3495.6	3739.4
27.5°	5480.5	5432.8	5175.8	4860.4	4235.0	3670.5	3418.7	3458.5	3601.6	3736.7
30°	5962.9	5962.9	5806.5	5334.8	4645.7	3946.1	3548.6	3530.0	3551.2	3731.4
32.5°	6527.3	6450.5	6225.2	5912.5	5162.5	4197.9	3651.9	3657.2	3657.2	3829.5
35°	6824.2	6948.7	6797.7	6288.8	5557.4	4616.6	3901.0	3861.3	3832.1	3938.1
37.5°	7258.8	7333.0	7174.0	6874.5	6047.7	4955.8	4121.0	4089.2	3919.6	4022.9
40°	7521.2	7507.9	7502.6	7364.8	6697.0	5356.0	4444.3	4362.2	4134.2	4322.4
42.5°	7669.6	7643.1	7969.0	7884.2	7309.1	5944.3	4849.8	4804.7	4553.0	4855.1
45°	7836.5	8032.6	8300.3	8538.8	8022.0	6771.2	5536.2	5472.6	5247.3	5631.6
47.5°	7982.3	8223.4	8565.3	8819.7	8666.0	7669.6	6384.2	6400.1	6251.7	6646.6
50°	8226.1	8249.9	8713.7	9227.9	9347.1	8499.1	7523.8	7497.3	7431.0	7984.9
52.5°	8151.9	8223.4	8809.1	9466.4	9662.5	9376.3	8748.2	8827.7	8740.2	9437.2
55°	6943.4	7158.1	8750.8	9718.1	10409.8	10367.4	10322.4	10269.4	10264.1	11069.7
57.5°	6394.8	6569.7	7709.3	9996.4	11210.2	11522.9	11814.4	11872.7	11870.1	12842.7
60°	6034.4	6214.6	7287.9	9845.3	11891.3	13036.1	13595.3	13603.3	13587.4	14737.5
62.5°	5329.5	5504.4	6559.1	9018.5	12079.4	14432.8	15678.3	15781.7	15052.9	16370.0
65°	4481.4	4624.5	5554.7	7754.4	11578.5	15320.6	17244.6	17122.7	16287.9	17302.9
67°	3665.2	3760.6	4666.9	6657.2	10269.4	14893.9	17697.8	17798.5	16857.7	17342.6
67.5°	3432.0	3519.4	4375.4	6283.5	9771.1	14570.6	17713.7	17697.8	16868.3	17350.6
70°	2382.5	2419.6	2981.4	4322.4	7197.8	12310.0	16420.4	16457.5	16160.7	16409.8
72.5°	1579.5	1635.1	1992.9	2724.4	4242.9	8957.5	13725.2	14122.7	13934.5	13454.9
75°	1017.7	1049.5	1303.9	1621.9	2088.3	5101.6	10139.5	10404.5	9972.6	8321.5
77.5°	569.8	604.2	787.1	985.9	1017.7	2122.8	5695.2	6023.8	5104.2	3535.3
80°	355.1	400.2	593.6	585.7	485.0	779.1	2348.0	2515.0	2040.6	1216.4
82.5°	267.7	302.1	458.5	410.8	273.0	347.2	879.9	943.5	747.3	469.1
85°	182.9	230.6	331.3	254.4	143.1	167.0	349.8	376.3	341.9	227.9
87.5°	66.3	98.1	172.3	127.2	63.6	50.4	114.0	127.2	121.9	103.4
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°
3516.8	0°	3516.8	3516.8	3516.8	3516.8	3516.8	3516.8	3516.8	3516.8	3516.8	3516.8
3548.6	2.5°	3598.9	3636.0	3654.6	3763.2	3808.3	3800.3	3810.9	3826.8	3842.7	3863.9
3593.6	5°	3628.1	3742.0	3803.0	3930.2	4015.0	3977.9	4025.6	4012.3	3993.8	3991.1
3675.8	7.5°	3723.5	3869.2	4052.1	4086.5	4123.6	4030.9	3951.4	3842.7	3816.2	3723.5
3744.7	10°	3893.1	4012.3	4235.0	4248.2	4083.9	3845.4	3667.8	3442.6	3439.9	3304.7
3850.7	12.5°	4054.7	4189.9	4370.1	4293.3	3901.0	3575.1	3286.2	3039.7	2936.4	2867.5
3914.3	15°	4155.5	4378.1	4473.5	4142.2	3580.4	3140.4	2766.8	2501.8	2395.7	2345.4
3993.8	17.5°	4248.2	4558.3	4515.9	3877.2	3185.5	2692.6	2247.3	2016.8	1987.6	1950.5
4121.0	20°	4375.4	4624.5	4364.8	3532.7	2737.6	2114.8	1831.3	1720.0	1746.5	1762.4
4134.2	22.5°	4494.7	4659.0	4174.0	3156.3	2162.5	1674.9	1534.4	1558.3	1598.0	1651.0
4166.1	25°	4547.7	4714.6	3916.9	2636.9	1645.7	1409.9	1378.1	1417.8	1484.1	1486.7
4211.1	27.5°	4582.1	4674.9	3606.9	2130.7	1301.2	1232.3	1280.0	1309.2	1317.1	1348.9
4306.5	30°	4643.1	4592.7	3214.6	1523.8	1091.9	1094.5	1155.5	1155.5	1155.5	1179.3
4401.9	32.5°	4749.1	4537.1	2756.2	1113.1	940.8	1025.6	1009.7	1004.4	993.8	964.7
4523.8	35°	4815.3	4386.0	2175.8	824.2	845.4	940.8	935.5	853.4	715.5	646.6
4833.9	37.5°	4953.1	4309.2	1600.7	636.0	789.7	898.4	869.3	670.5	519.4	453.2
5218.2	40°	5250.0	4258.8	1107.8	556.5	752.6	877.2	776.5	572.4	397.5	280.9
5811.8	42.5°	5613.0	4261.5	752.6	524.7	755.3	922.3	747.3	490.3	280.9	225.3
6604.2	45°	6100.7	4221.7	516.8	524.7	803.0	996.5	765.9	445.2	273.0	286.2
7598.0	47.5°	6625.4	4256.2	384.3	477.0	810.9	999.1	699.6	437.3	262.4	331.3
8679.3	50°	7237.6	4290.6	318.0	439.9	813.6	967.3	644.0	426.7	273.0	349.8
9919.5	52.5°	7868.3	4399.3	270.3	416.1	845.4	954.1	644.0	442.6	273.0	304.8
11499.0	55°	8809.1	4677.5	389.6	519.4	962.0	1041.5	792.4	620.1	381.6	392.2
13012.3	57.5°	9848.0	4963.7	434.6	545.9	988.5	938.2	853.4	683.7	402.8	405.5
14189.0	60°	10531.7	4974.3	432.0	532.7	924.9	810.9	834.8	720.8	410.8	347.2
14917.7	62.5°	10804.7	4651.0	450.5	532.7	861.3	757.9	856.0	776.5	424.0	434.6
15124.5	65°	10494.6	3983.2	434.6	477.0	757.9	678.4	861.3	787.1	463.8	437.3
14753.4	67°	10009.7	3432.0	442.6	453.2	704.9	644.0	906.4	826.8	538.0	524.7
14560.0	67.5°	9871.8	3286.2	439.9	439.9	686.4	633.4	917.0	826.8	548.6	543.3
12850.6	70°	8700.5	2663.4	450.5	434.6	606.9	601.6	975.3	871.9	630.7	636.0
9439.9	72.5°	6622.7	2019.4	447.9	434.6	527.4	575.1	983.2	901.1	686.4	636.0
5287.1	75°	3763.2	1208.5	394.9	379.0	416.1	500.9	919.6	858.7	667.8	569.8
2112.2	77.5°	1555.6	622.8	363.1	341.9	344.5	408.1	765.9	800.3	636.0	485.0
704.9	80°	580.4	373.7	291.5	273.0	265.0	299.5	545.9	638.7	543.3	397.5
310.1	82.5°	302.1	233.2	198.8	198.8	180.2	190.8	294.2	424.0	410.8	273.0
124.6	85°	153.7	132.5	114.0	111.3	100.7	90.1	148.4	251.8	235.9	151.1
55.7	87.5°	82.2	74.2	47.7	45.1	37.1	23.9	26.5	50.4	82.2	66.3
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°
3516.8
3885.1
4015.0
3755.3
3299.4
2851.6
2334.8
1969.1
1743.8
1621.9
1513.2
1378.1
1205.8
948.8
678.4
450.5
273.0
220.0
291.5
368.4
405.5
312.7
413.4
392.2
357.8
439.9
429.3
516.8
532.7
588.3
564.5
508.8
458.5
363.1
214.7
124.6
47.7
0.0

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