

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: P477907

Luminaire Tested: **IFLD-M-SA4E-827-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477907
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-827-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

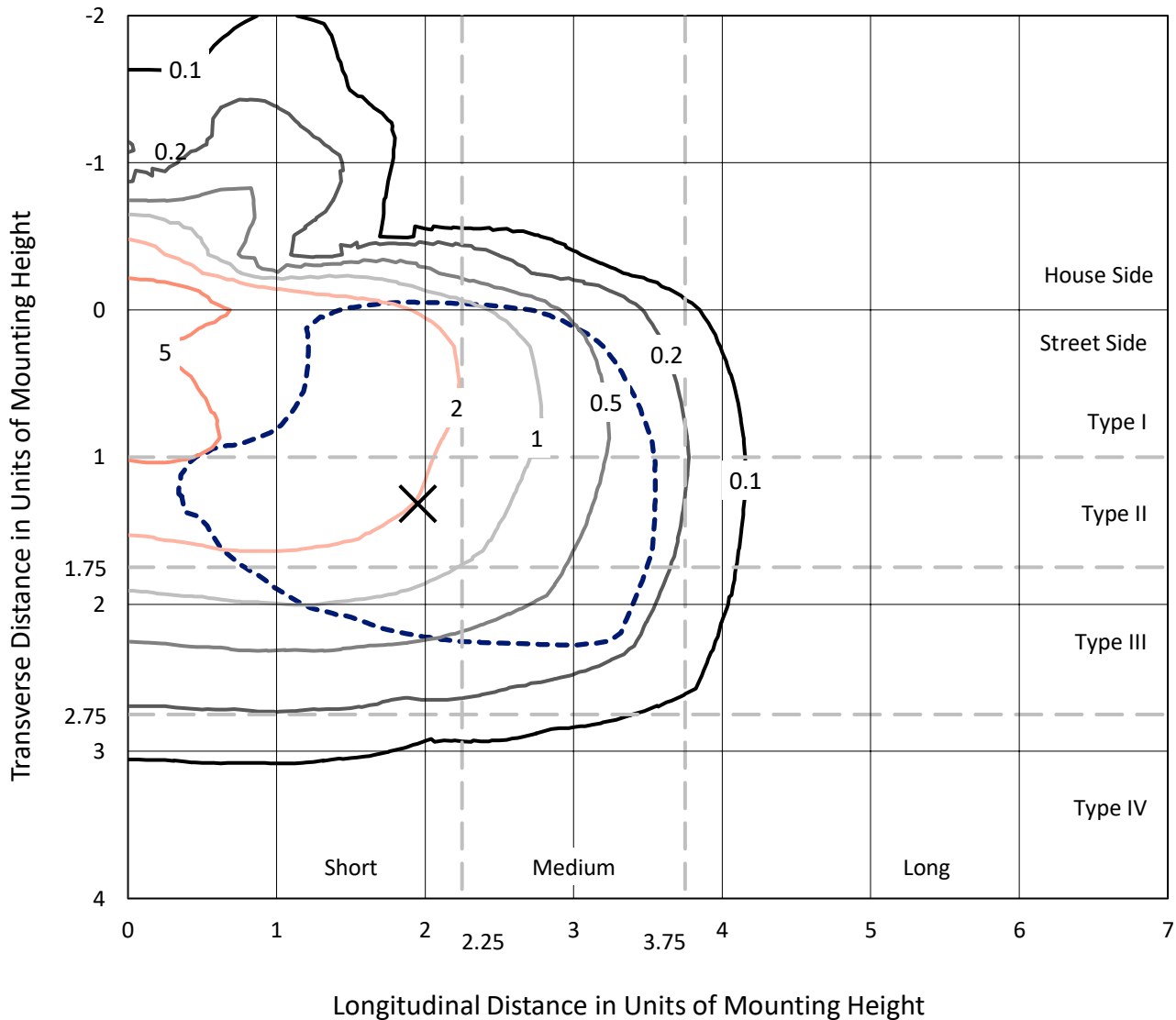
Lumens per Lamp: N/A
Luminaire Lumens: 26142.8 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 314.8
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

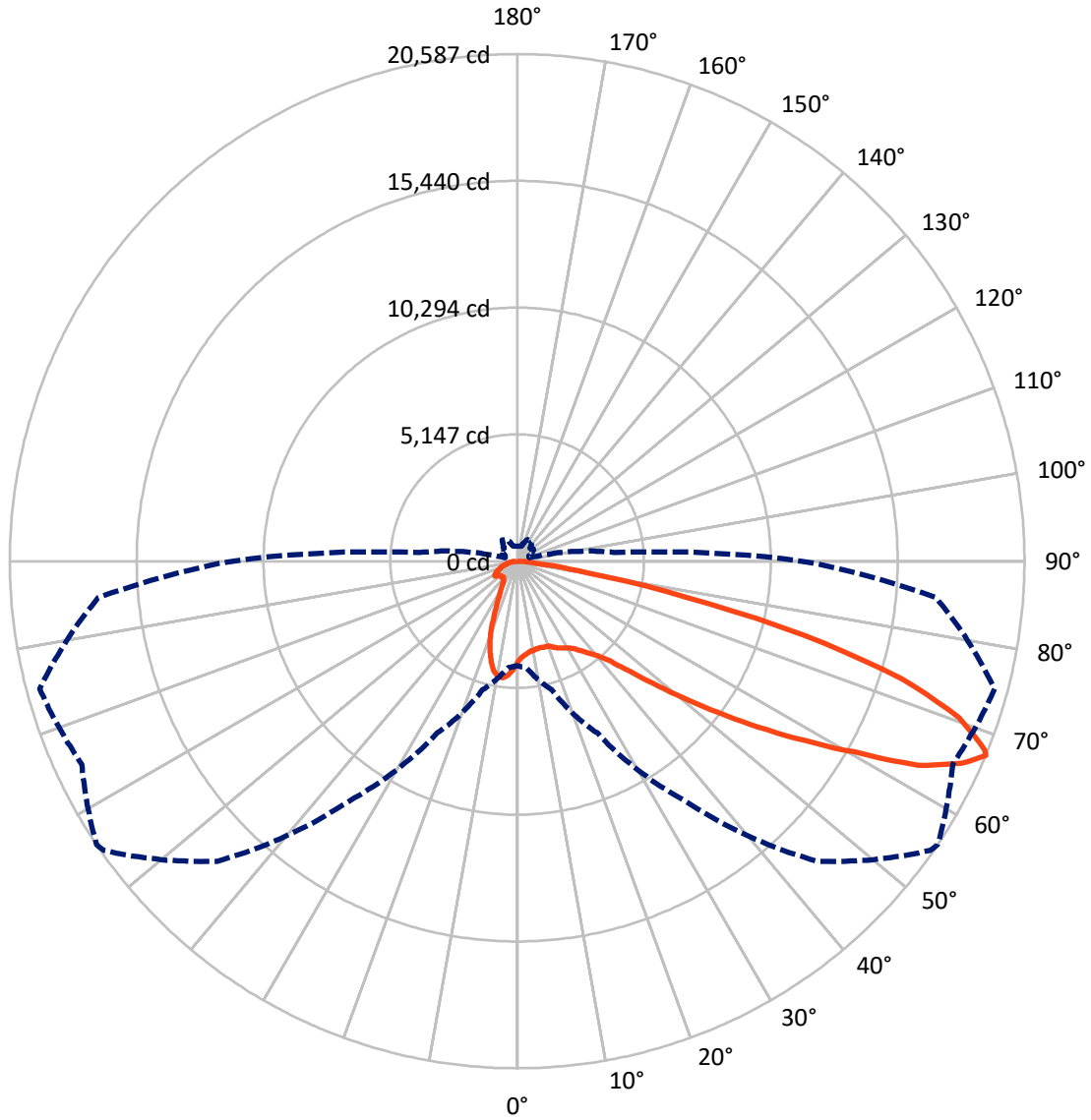
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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	4138.7	0.0	4138.7
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	22004.2	0.0	22004.2
	% Fixture	84.2	0.0	84.2
Total	Lumens	26142.8	0.0	26142.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.9	1.5
10°-20°	1069.1	4.1
20°-30°	1676.6	6.4
30°-40°	2393.4	9.2
40°-50°	3612.4	13.8
50°-60°	5750.3	22.0
60°-70°	7351.3	28.1
70°-80°	3584.3	13.7
80°-90°	313.5	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°	26142.8	100.0
0°-180°	26142.8	100.0

Coefficient of Utilization

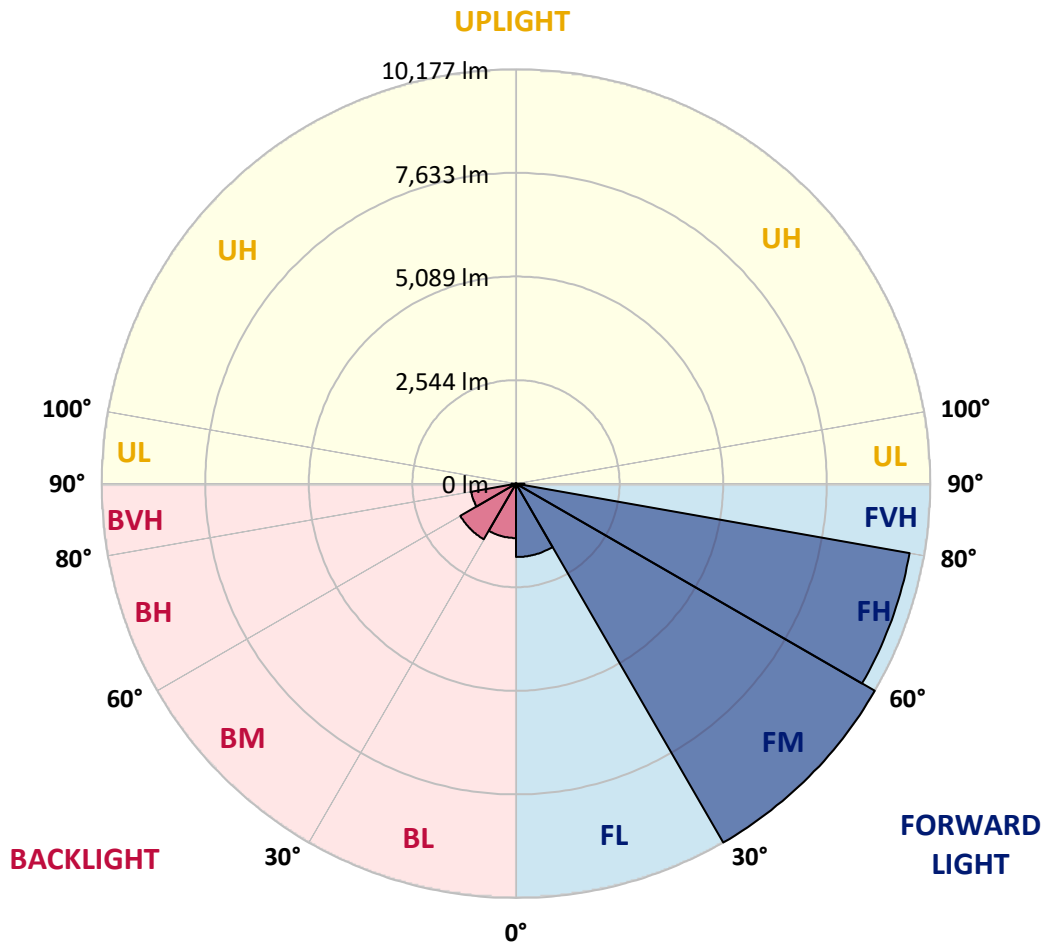


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1801.5	6.9			
FM (30°-60°)	10177.2	38.9			
FH (60°-80°)	9817.2	37.6			G4/12000
FVH (80°-90°)	208.2	0.8			G2/225
BL (0°-30°)	1336.1	5.1	B3/2500		
BM (30°-60°)	1578.9	6.0	B2/2500		
BH (60°-80°)	1118.3	4.3	B3/2500		G3/2500
BVH (80°-90°)	105.3	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°	4067.8	4067.8	4067.8	4067.8	4067.8	4067.8	4067.8	4067.8	4067.8	4067.8
2.5°	3736.7	3721.4	3739.8	3721.4	3804.1	3853.2	3868.5	3890.0	3966.6	4040.2
5°	3580.4	3512.9	3586.5	3611.0	3617.1	3699.9	3785.7	3801.1	3840.9	3960.5
7.5°	3319.8	3396.4	3368.9	3442.4	3519.1	3601.8	3742.8	3703.0	3850.1	3963.5
10°	3264.6	3270.8	3301.4	3329.0	3396.4	3503.7	3699.9	3675.4	3825.6	4067.8
12.5°	3319.8	3319.8	3310.6	3289.2	3365.8	3470.0	3626.3	3638.6	3874.6	4098.4
15°	3512.9	3549.7	3451.6	3466.9	3436.3	3470.0	3608.0	3635.5	3893.0	4122.9
17.5°	3985.0	3972.7	3856.2	3693.8	3558.9	3537.4	3632.5	3663.1	3874.6	4193.4
20°	4444.8	4420.3	4218.0	4049.4	3782.7	3657.0	3672.3	3675.4	3905.3	4239.4
22.5°	4956.7	5021.1	4800.4	4457.1	4126.0	3813.3	3752.0	3801.1	3975.8	4263.9
25°	5759.8	5621.9	5431.9	4981.2	4447.9	4055.5	3883.8	3908.4	4043.2	4325.2
27.5°	6339.2	6284.0	5986.7	5621.9	4898.5	4245.5	3954.3	4000.3	4165.8	4322.2
30°	6897.1	6897.1	6716.2	6170.6	5373.6	4564.3	4104.5	4083.1	4107.6	4316.1
32.5°	7550.0	7461.1	7200.6	6838.9	5971.4	4855.6	4224.1	4230.2	4230.2	4429.5
35°	7893.3	8037.4	7862.7	7274.1	6428.1	5339.9	4512.2	4466.3	4432.5	4555.2
37.5°	8396.1	8481.9	8298.0	7951.6	6995.2	5732.3	4766.7	4729.9	4533.7	4653.2
40°	8699.5	8684.2	8678.1	8518.7	7746.2	6195.1	5140.6	5045.6	4782.0	4999.6
42.5°	8871.2	8840.6	9217.6	9119.5	8454.3	6875.6	5609.6	5557.5	5266.3	5615.8
45°	9064.3	9291.2	9600.8	9876.6	9278.9	7832.0	6403.6	6330.0	6069.4	6513.9
47.5°	9232.9	9511.9	9907.3	10201.6	10023.8	8871.2	7384.5	7402.9	7231.2	7688.0
50°	9514.9	9542.5	10079.0	10673.6	10811.6	9830.7	8702.6	8672.0	8595.3	9236.0
52.5°	9429.1	9511.9	10189.3	10949.5	11176.4	10845.3	10118.8	10210.8	10109.6	10915.8
55°	8031.3	8279.6	10121.9	11240.7	12040.8	11991.8	11939.6	11878.3	11872.2	12804.1
57.5°	7396.8	7599.1	8917.2	11562.6	12966.6	13328.3	13665.5	13732.9	13729.8	14854.8
60°	6979.9	7188.3	8429.8	11387.9	13754.4	15078.6	15725.4	15734.6	15716.2	17046.6
62.5°	6164.5	6366.8	7586.8	10431.5	13972.0	16694.1	18134.8	18254.3	17411.3	18934.8
65°	5183.6	5349.1	6425.0	8969.3	13392.6	17721.0	19946.4	19805.4	18839.8	20013.9
67°	4239.4	4349.8	5398.1	7700.2	11878.3	17227.4	20470.6	20587.1	19498.9	20059.8
67.5°	3969.7	4070.8	5060.9	7268.0	11302.1	16853.5	20489.0	20470.6	19511.1	20069.0
70°	2755.8	2798.7	3448.6	4999.6	8325.6	14238.7	18993.1	19036.0	18692.7	18980.8
72.5°	1827.0	1891.3	2305.2	3151.2	4907.7	10361.0	15875.6	16335.4	16117.8	15562.9
75°	1177.1	1213.9	1508.2	1876.0	2415.5	5900.9	11728.1	12034.7	11535.0	9625.3
77.5°	659.1	698.9	910.4	1140.3	1177.1	2455.4	6587.5	6967.6	5903.9	4089.2
80°	410.8	462.9	686.6	677.4	561.0	901.2	2715.9	2909.0	2360.3	1407.0
82.5°	309.6	349.5	530.3	475.1	315.7	401.6	1017.7	1091.3	864.4	542.6
85°	211.5	266.7	383.2	294.3	165.5	193.1	404.6	435.3	395.4	263.6
87.5°	76.6	113.4	199.2	147.1	73.6	58.2	131.8	147.1	141.0	119.5
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°
4067.8	0°	4067.8	4067.8	4067.8	4067.8	4067.8	4067.8	4067.8	4067.8	4067.8	4067.8
4104.5	2.5°	4162.8	4205.7	4227.2	4352.8	4404.9	4395.8	4408.0	4426.4	4444.8	4469.3
4156.7	5°	4196.5	4328.3	4398.8	4546.0	4644.0	4601.1	4656.3	4641.0	4619.5	4616.5
4251.7	7.5°	4306.9	4475.5	4687.0	4726.8	4769.7	4662.4	4570.5	4444.8	4414.1	4306.9
4331.4	10°	4503.0	4641.0	4898.5	4913.8	4723.7	4447.9	4242.5	3981.9	3978.9	3822.5
4454.0	12.5°	4690.0	4846.4	5054.8	4965.9	4512.2	4135.2	3801.1	3516.0	3396.4	3316.7
4527.6	15°	4806.5	5064.0	5174.4	4791.2	4141.3	3632.5	3200.3	2893.7	2771.1	2712.9
4619.5	17.5°	4913.8	5272.5	5223.4	4484.6	3684.6	3114.4	2599.4	2332.8	2299.0	2256.1
4766.7	20°	5060.9	5349.1	5048.7	4086.1	3166.5	2446.2	2118.2	1989.4	2020.1	2038.5
4782.0	22.5°	5198.9	5388.9	4828.0	3650.9	2501.3	1937.3	1774.9	1802.4	1848.4	1909.7
4818.8	25°	5260.2	5453.3	4530.6	3050.1	1903.6	1630.8	1594.0	1640.0	1716.6	1719.7
4870.9	27.5°	5300.0	5407.3	4172.0	2464.6	1505.1	1425.4	1480.6	1514.3	1523.5	1560.3
4981.2	30°	5370.5	5312.3	3718.3	1762.6	1262.9	1266.0	1336.5	1336.5	1336.5	1364.1
5091.6	32.5°	5493.2	5247.9	3188.0	1287.5	1088.2	1186.3	1167.9	1161.8	1149.5	1115.8
5232.6	35°	5569.8	5073.2	2516.7	953.3	977.9	1088.2	1082.1	987.1	827.7	748.0
5591.3	37.5°	5729.2	4984.3	1851.5	735.7	913.5	1039.2	1005.4	775.5	600.8	524.2
6035.7	40°	6072.5	4926.1	1281.3	643.7	870.6	1014.6	898.2	662.1	459.8	324.9
6722.4	42.5°	6492.5	4929.1	870.6	606.9	873.6	1066.8	864.4	567.1	324.9	260.6
7638.9	45°	7056.5	4883.1	597.7	606.9	928.8	1152.6	885.9	515.0	315.7	331.1
8788.4	47.5°	7663.4	4923.0	444.5	551.8	938.0	1155.6	809.3	505.8	303.5	383.2
10039.1	50°	8371.5	4962.8	367.8	508.9	941.1	1118.9	744.9	493.5	315.7	404.6
11473.7	52.5°	9101.1	5088.5	312.7	481.3	977.9	1103.5	744.9	511.9	315.7	352.5
13300.7	55°	10189.3	5410.4	450.6	600.8	1112.7	1204.7	916.5	717.3	441.4	453.7
15051.0	57.5°	11390.9	5741.5	502.7	631.5	1143.4	1085.1	987.1	790.9	465.9	469.0
16412.0	60°	12181.8	5753.7	499.7	616.1	1069.8	938.0	965.6	833.8	475.1	401.6
17255.0	62.5°	12497.5	5379.7	521.1	616.1	996.2	876.7	990.1	898.2	490.5	502.7
17494.1	65°	12138.9	4607.3	502.7	551.8	876.7	784.7	996.2	910.4	536.4	505.8
17065.0	67°	11577.9	3969.7	511.9	524.2	815.4	744.9	1048.4	956.4	622.3	606.9
16841.2	67.5°	11418.5	3801.1	508.9	508.9	793.9	732.6	1060.6	956.4	634.5	628.4
14864.0	70°	10063.6	3080.7	521.1	502.7	702.0	695.8	1128.1	1008.5	729.6	735.7
10918.9	72.5°	7660.4	2335.8	518.0	502.7	610.0	665.2	1137.3	1042.2	793.9	735.7
6115.4	75°	4352.8	1397.8	456.7	438.3	481.3	579.4	1063.7	993.2	772.5	659.1
2443.1	77.5°	1799.4	720.4	420.0	395.4	398.5	472.1	885.9	925.7	735.7	561.0
815.4	80°	671.3	432.2	337.2	315.7	306.5	346.4	631.5	738.8	628.4	459.8
358.6	82.5°	349.5	269.8	229.9	229.9	208.4	220.7	340.3	490.5	475.1	315.7
144.1	85°	177.8	153.3	131.8	128.7	116.5	104.2	171.7	291.2	272.8	174.7
64.4	87.5°	95.0	85.8	55.2	52.1	42.9	27.6	30.7	58.2	95.0	76.6
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°
4067.8
4493.8
4644.0
4343.6
3816.4
3298.3
2700.6
2277.6
2017.0
1876.0
1750.3
1594.0
1394.7
1097.4
784.7
521.1
315.7
254.4
337.2
426.1
469.0
361.7
478.2
453.7
413.8
508.9
496.6
597.7
616.1
680.5
652.9
588.6
530.3
420.0
248.3
144.1
55.2
0.0

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