

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: P477439

Luminaire Tested: **IFLD-M-SA4E-750-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477439
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-750-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

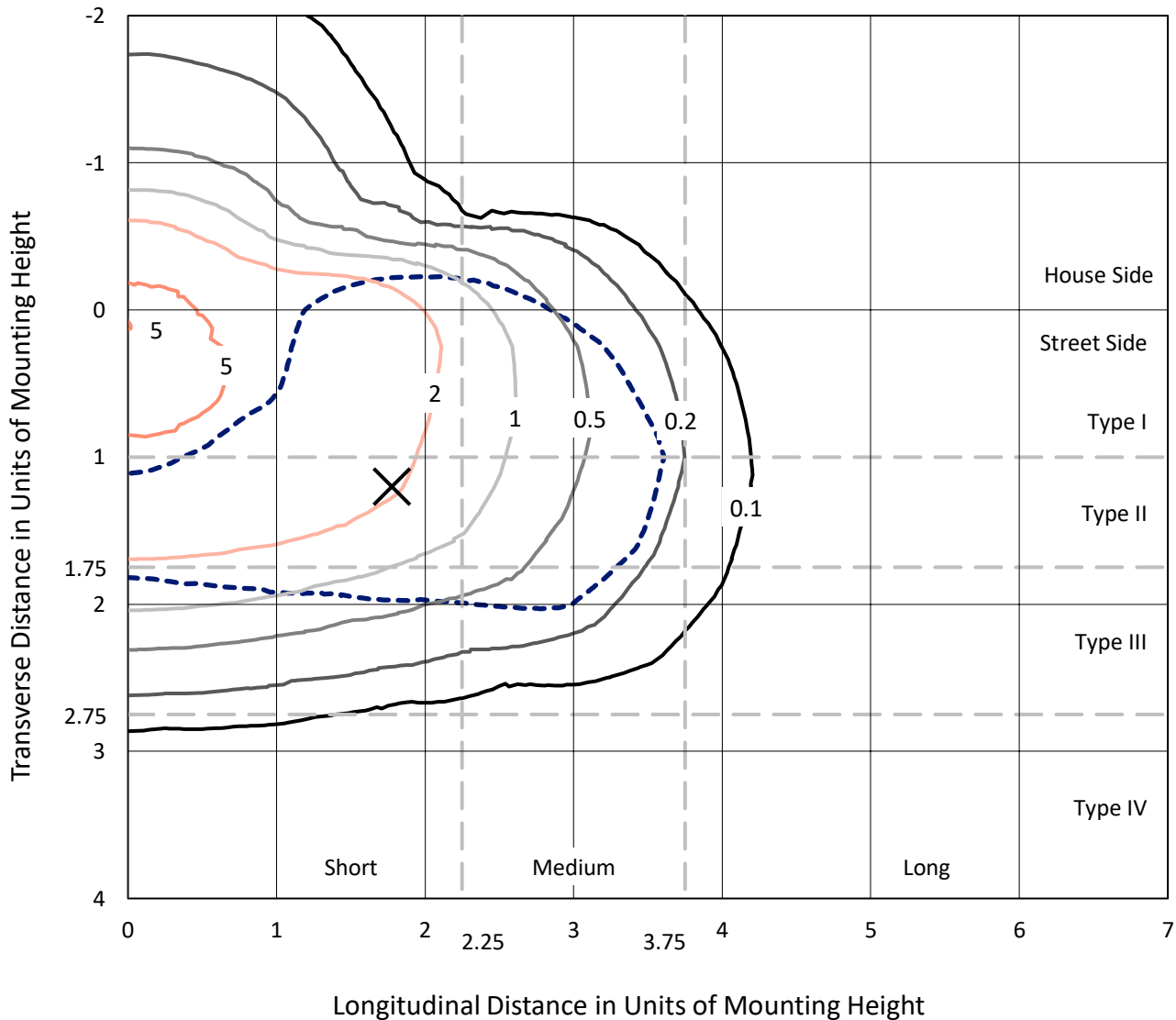
Lumens per Lamp: N/A
Luminaire Lumens: 37719.5 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 314.8
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

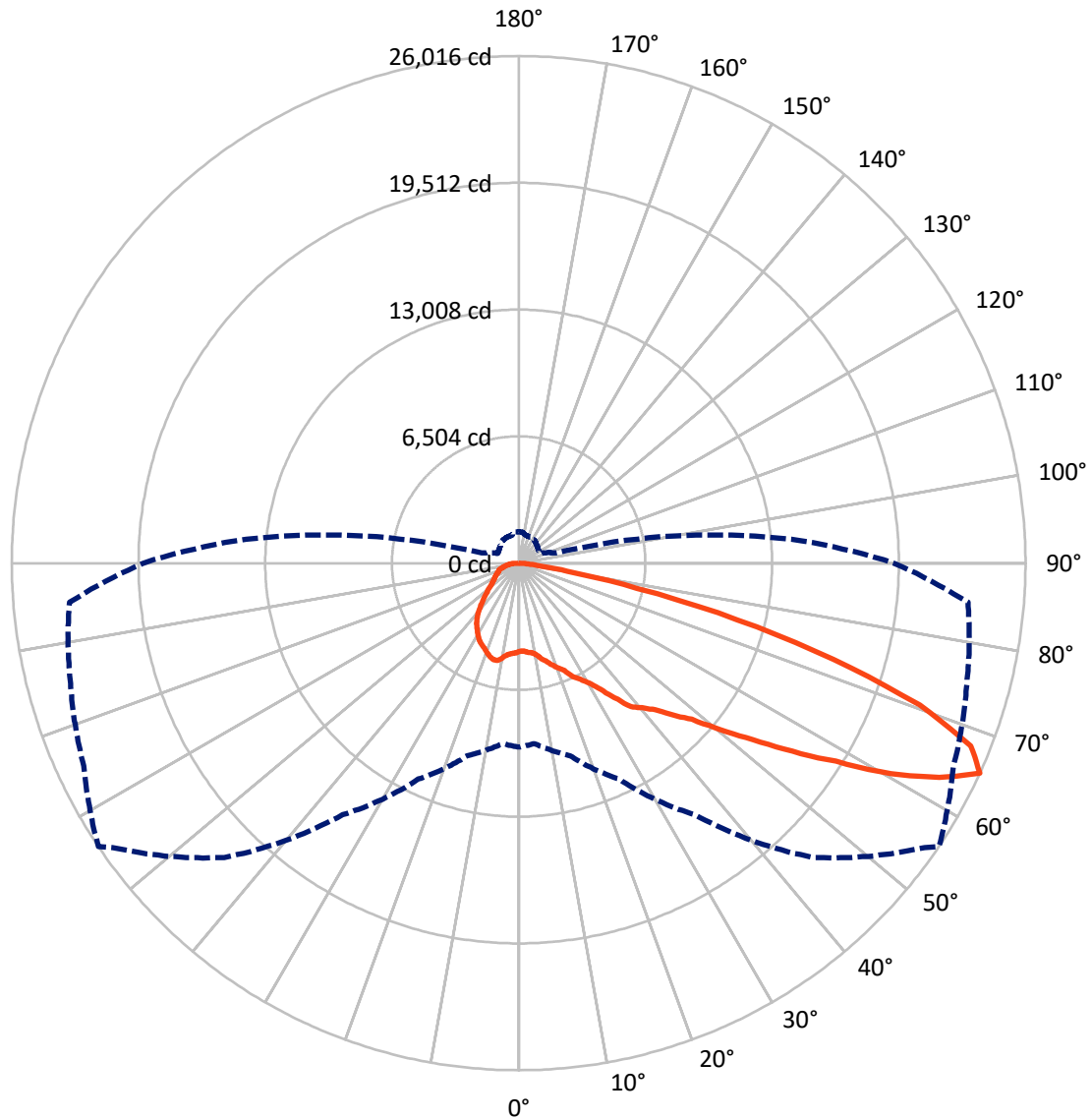
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8459.3	0.0	8459.3
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	29260.3	0.0	29260.3
	% Fixture	77.6	0.0	77.6
Total	Lumens	37719.5	0.0	37719.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.6	1.2
10°-20°	1456.8	3.9
20°-30°	2594.0	6.9
30°-40°	3884.4	10.3
40°-50°	5755.2	15.3
50°-60°	8868.0	23.5
60°-70°	10039.7	26.6
70°-80°	4166.6	11.0
80°-90°	506.2	1.3
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°	37719.5	100.0
0°-180°	37719.5	100.0

Coefficient of Utilization

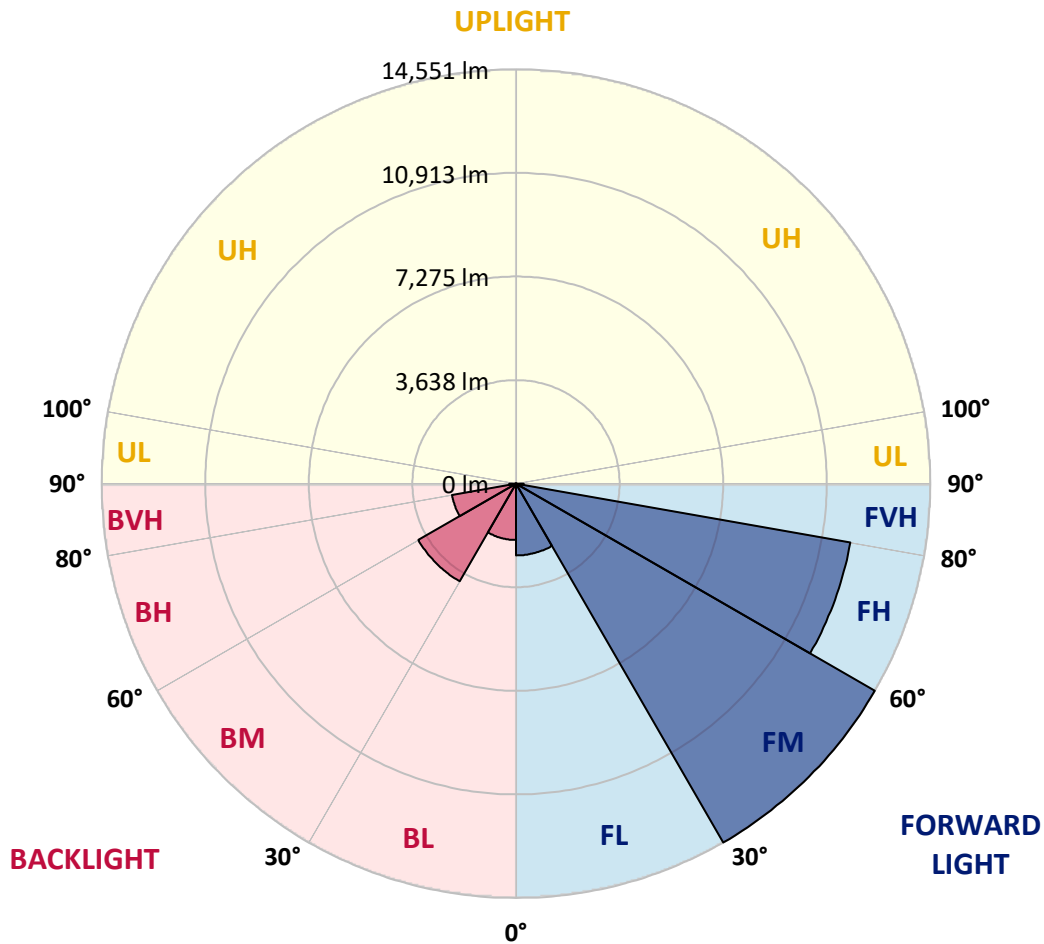


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2520.8	6.7			
FM (30°-60°)	14550.5	38.6			
FH (60°-80°)	11922.0	31.6			G4/12000
FVH (80°-90°)	267.0	0.7			G3/500
BL (0°-30°)	1978.7	5.2	B3/2500		
BM (30°-60°)	3957.1	10.5	B3/5000		
BH (60°-80°)	2284.3	6.1	B3/2500		G3/2500
BVH (80°-90°)	239.2	0.6			G3/500
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°	4527.4	4527.4	4527.4	4527.4	4527.4	4527.4	4527.4	4527.4	4527.4	4527.4
2.5°	4409.0	4432.7	4416.9	4464.3	4503.7	4503.7	4535.3	4511.6	4543.2	4586.6
5°	4555.1	4460.3	4511.6	4535.3	4523.5	4543.2	4511.6	4590.6	4539.3	4622.2
7.5°	4590.6	4626.1	4669.5	4630.0	4665.6	4645.8	4649.8	4637.9	4610.3	4677.4
10°	4851.1	4799.8	4898.5	4839.3	4831.4	4823.5	4807.7	4748.5	4815.6	4819.5
12.5°	5151.1	5103.7	5099.8	5052.4	5115.6	5001.1	5024.8	4993.2	5005.0	5020.8
15°	5368.2	5348.4	5439.2	5384.0	5301.1	5249.8	5305.0	5218.2	5261.6	5253.7
17.5°	5798.4	5794.5	5727.4	5636.6	5589.2	5514.2	5502.4	5466.9	5498.4	5482.6
20°	6098.4	6141.8	6153.7	6047.1	5865.5	5782.6	5762.9	5735.3	5770.8	5758.9
22.5°	6556.3	6489.2	6540.5	6355.0	6287.9	6090.5	6019.5	5980.0	6149.7	6106.3
25°	6848.4	6919.4	6868.1	6804.9	6655.0	6410.2	6358.9	6445.8	6512.9	6465.5
27.5°	7507.5	7436.5	7389.1	7199.7	7101.0	6844.4	6785.2	6753.6	6769.4	6797.1
30°	8008.8	8048.3	7941.7	7807.5	7558.9	7298.3	7160.2	7132.6	7077.3	7029.9
32.5°	8723.3	8664.1	8600.9	8514.1	8300.9	7957.5	7823.3	7720.7	7554.9	7333.9
35°	9066.7	9236.4	9189.0	8956.2	8794.3	8664.1	8624.6	8466.7	8328.6	7981.2
37.5°	9639.0	9710.1	9643.0	9568.0	9493.0	9354.8	9307.5	9350.9	9078.5	8506.2
40°	10010.1	10160.1	10298.2	10089.0	10073.2	10100.8	9808.8	9757.4	9196.9	8897.0
42.5°	10767.9	10831.1	10858.7	10850.8	10941.6	10941.6	10385.0	10274.5	9875.9	9631.1
45°	11770.5	11821.8	11920.5	11991.6	11888.9	11940.2	11146.9	11103.4	10748.2	10700.8
47.5°	12638.9	12761.3	12982.3	13191.5	13325.7	13152.0	12283.6	11975.8	11885.0	12169.2
50°	13396.8	13250.7	13767.8	13980.9	14569.1	14857.2	13538.8	13416.5	13270.4	13815.2
52.5°	13471.7	13669.1	14399.3	14825.6	16037.4	16570.3	15078.3	15026.9	14849.3	15476.9
55°	14008.6	13984.9	14719.1	15642.7	17083.4	17979.4	17083.4	17051.8	16665.0	17261.0
57.5°	13917.8	14158.6	14738.8	16029.5	18026.8	19491.2	19408.3	19191.2	18650.5	19136.0
60°	13609.9	13673.1	14379.6	16017.7	18575.5	21042.5	21918.7	21962.1	20856.9	21243.8
62.5°	11865.2	12011.3	12907.3	14758.5	18184.7	22112.1	24369.9	24216.0	23331.8	22889.7
65°	9437.7	9291.7	10223.2	12224.4	15753.2	21354.3	25443.6	26015.9	24626.5	23817.3
67.5°	5786.6	5751.1	6647.1	8411.5	11786.3	18172.8	24587.0	25033.1	24267.3	23620.0
70°	2980.1	2889.3	3449.8	4693.2	7408.9	13333.6	21397.7	21835.8	22566.1	21184.5
72.5°	1389.4	1369.7	1669.7	2309.1	3773.5	7839.1	16570.3	16886.1	18425.5	17861.0
75°	817.1	828.9	998.6	1207.8	1839.4	3694.6	10996.9	11608.7	13278.3	12871.8
77.5°	611.8	611.8	710.5	840.8	1073.6	1428.9	5427.4	6236.6	7764.1	6982.6
80°	450.0	457.9	544.7	631.5	746.0	738.1	2155.2	2526.2	3560.4	3043.3
82.5°	351.3	363.1	422.3	469.7	525.0	446.0	884.2	951.3	1464.4	1164.4
85°	244.7	252.6	331.6	319.7	319.7	248.7	367.1	386.8	580.2	552.6
87.5°	59.2	67.1	161.8	177.6	134.2	75.0	114.5	130.3	209.2	240.8
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°
4527.4	0°	4527.4	4527.4	4527.4	4527.4	4527.4	4527.4	4527.4	4527.4	4527.4	4527.4
4606.4	2.5°	4547.2	4562.9	4630.0	4594.5	4614.3	4531.4	4598.5	4543.2	4590.6	4566.9
4641.9	5°	4673.5	4637.9	4677.4	4649.8	4649.8	4681.4	4728.7	4693.2	4764.3	4732.7
4669.5	7.5°	4724.8	4728.7	4752.4	4756.4	4736.6	4835.3	4839.3	4827.4	4894.5	4878.7
4859.0	10°	4851.1	4855.0	4898.5	4922.1	4902.4	4937.9	4898.5	4866.9	4862.9	4847.1
5009.0	12.5°	5052.4	5091.9	5084.0	5103.7	5107.7	4957.7	4866.9	4712.9	4693.2	4712.9
5230.0	15°	5237.9	5222.1	5230.0	5269.5	5103.7	4862.9	4701.1	4570.8	4578.7	4582.7
5518.2	17.5°	5459.0	5470.8	5482.6	5301.1	4997.1	4712.9	4570.8	4570.8	4531.4	4547.2
5719.5	20°	5711.6	5664.2	5561.6	5305.0	4811.6	4539.3	4495.8	4495.8	4448.5	4416.9
5936.6	22.5°	5908.9	5814.2	5660.3	5182.7	4645.8	4472.2	4365.6	4290.6	4235.3	4172.2
6177.3	25°	6035.2	5983.9	5683.9	5056.3	4523.5	4294.5	4136.7	4022.2	3951.1	3868.2
6366.8	27.5°	6228.7	6130.0	5751.1	4910.3	4389.3	4116.9	3872.2	3694.6	3560.4	3473.5
6655.0	30°	6489.2	6347.1	5703.7	4701.1	4184.0	3809.0	3520.9	3292.0	3138.0	3067.0
6927.3	32.5°	6702.3	6516.8	5664.2	4511.6	3955.1	3497.2	3114.3	2881.4	2794.6	2703.8
7385.2	35°	7108.9	6741.8	5636.6	4405.1	3749.8	3185.4	2782.8	2581.5	2470.9	2336.7
7657.5	37.5°	7420.7	7132.6	5569.5	4184.0	3485.4	2881.4	2530.1	2348.6	2182.8	2040.7
8289.1	40°	7910.2	7677.3	5573.4	3872.2	3173.5	2620.9	2332.8	2143.3	1934.1	1811.8
9224.6	42.5°	8829.9	8214.1	5597.1	3623.5	2822.2	2407.8	2155.2	1930.2	1721.0	1618.3
10290.3	45°	9958.8	8952.2	5451.1	3398.5	2463.0	2206.5	1942.0	1717.0	1582.8	1507.8
11738.9	47.5°	11257.4	9674.6	5253.7	2976.2	2163.1	1993.3	1744.7	1614.4	1515.7	1472.3
13606.0	50°	12709.9	10708.7	5198.4	2589.4	1930.2	1811.8	1649.9	1551.2	1484.1	1432.8
15709.8	52.5°	14580.9	11912.6	5087.9	2190.7	1728.9	1665.7	1614.4	1547.3	1488.1	1444.7
17671.6	55°	16369.0	13246.8	4969.5	1863.1	1586.8	1594.7	1622.3	1563.1	1511.8	1444.7
19870.1	57.5°	18382.0	14608.5	4531.4	1622.3	1480.2	1559.1	1614.4	1547.3	1496.0	1444.7
22120.0	60°	19625.4	15374.3	3674.8	1413.1	1385.5	1492.0	1567.0	1496.0	1440.7	1460.5
23154.2	62.5°	20130.7	14971.7	2770.9	1282.8	1318.4	1401.3	1492.0	1464.4	1424.9	1499.9
23142.4	65°	19270.2	14044.1	1981.5	1172.3	1227.6	1310.5	1424.9	1456.5	1468.4	1614.4
21255.6	67.5°	17146.6	12228.4	1456.5	1081.5	1132.8	1255.2	1472.3	1523.6	1515.7	1697.3
17837.3	70°	13720.4	9564.0	1136.8	1006.5	1097.3	1298.6	1539.4	1539.4	1484.1	1697.3
13606.0	72.5°	9982.4	6741.8	978.9	919.7	1006.5	1192.1	1531.5	1527.6	1456.5	1551.2
8664.1	75°	6043.1	3923.5	864.4	832.9	864.4	1022.3	1464.4	1440.7	1342.0	1334.1
4168.2	77.5°	3011.7	1973.6	706.5	738.1	753.9	856.5	1286.8	1322.3	1188.1	1156.5
1646.0	80°	1271.0	860.5	588.1	635.5	635.5	722.3	1069.7	1093.4	986.8	927.6
651.3	82.5°	580.2	493.4	501.3	552.6	517.1	560.5	848.6	876.3	801.3	702.6
276.3	85°	244.7	280.3	382.9	434.2	382.9	363.1	584.2	615.8	521.0	434.2
118.4	87.5°	110.5	153.9	240.8	315.8	193.4	169.7	311.8	323.7	260.5	193.4
0.0	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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180°
4527.4
4523.5
4689.3
4855.0
4847.1
4720.8
4637.9
4551.1
4369.5
4136.7
3884.0
3513.0
3106.4
2699.9
2324.9
2044.6
1823.6
1626.2
1523.6
1464.4
1440.7
1440.7
1440.7
1440.7
1444.7
1480.2
1614.4
1709.1
1661.8
1496.0
1318.4
1136.8
907.9
686.8
438.1
181.6
0.0

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