

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: P636729

Luminaire Tested: **IFLD-L-SA7B-927-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636729
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-927-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (112) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17342 lumens
Efficiency: N/A
Efficacy: 61.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

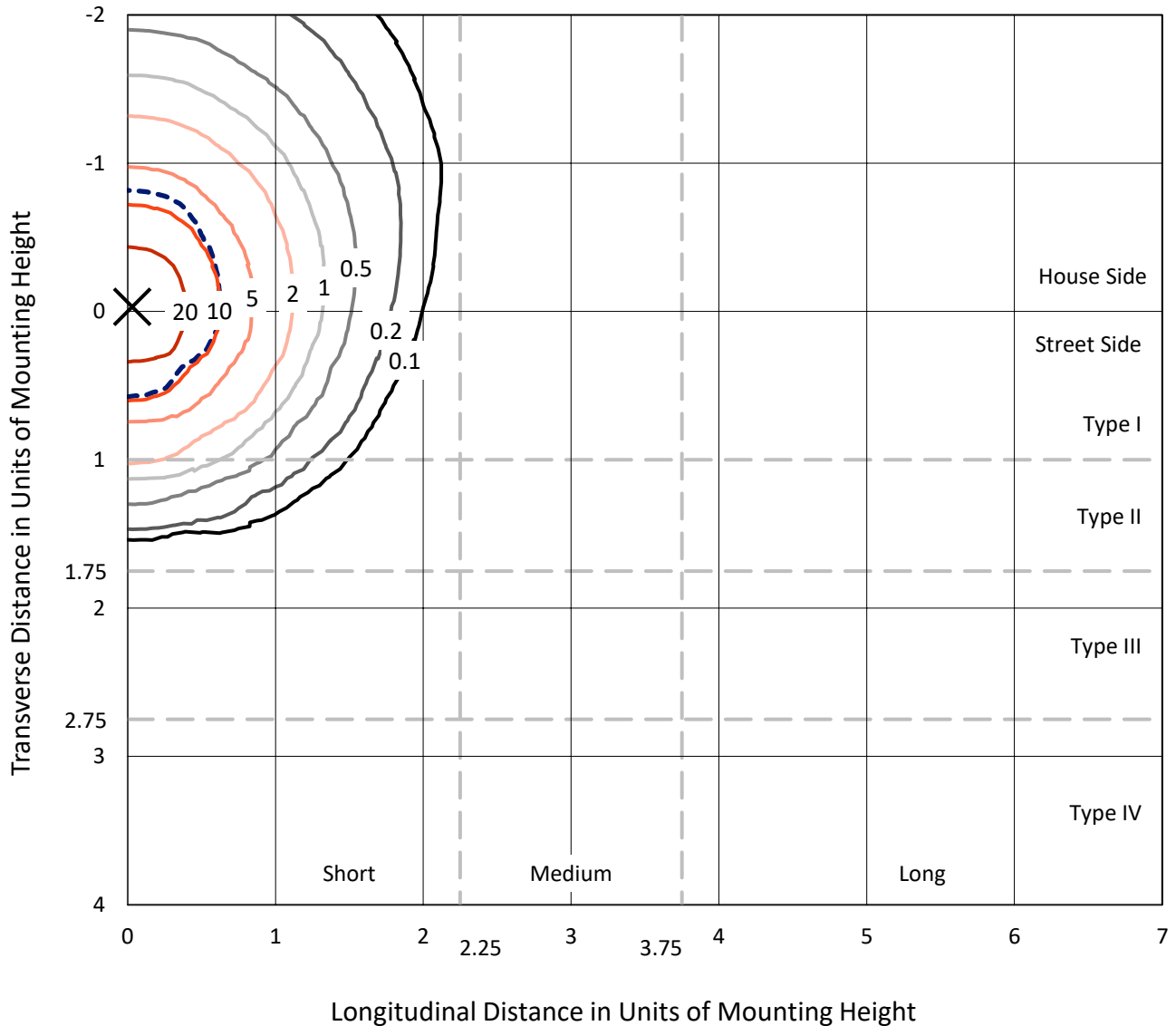
Input Watts (W): 281
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

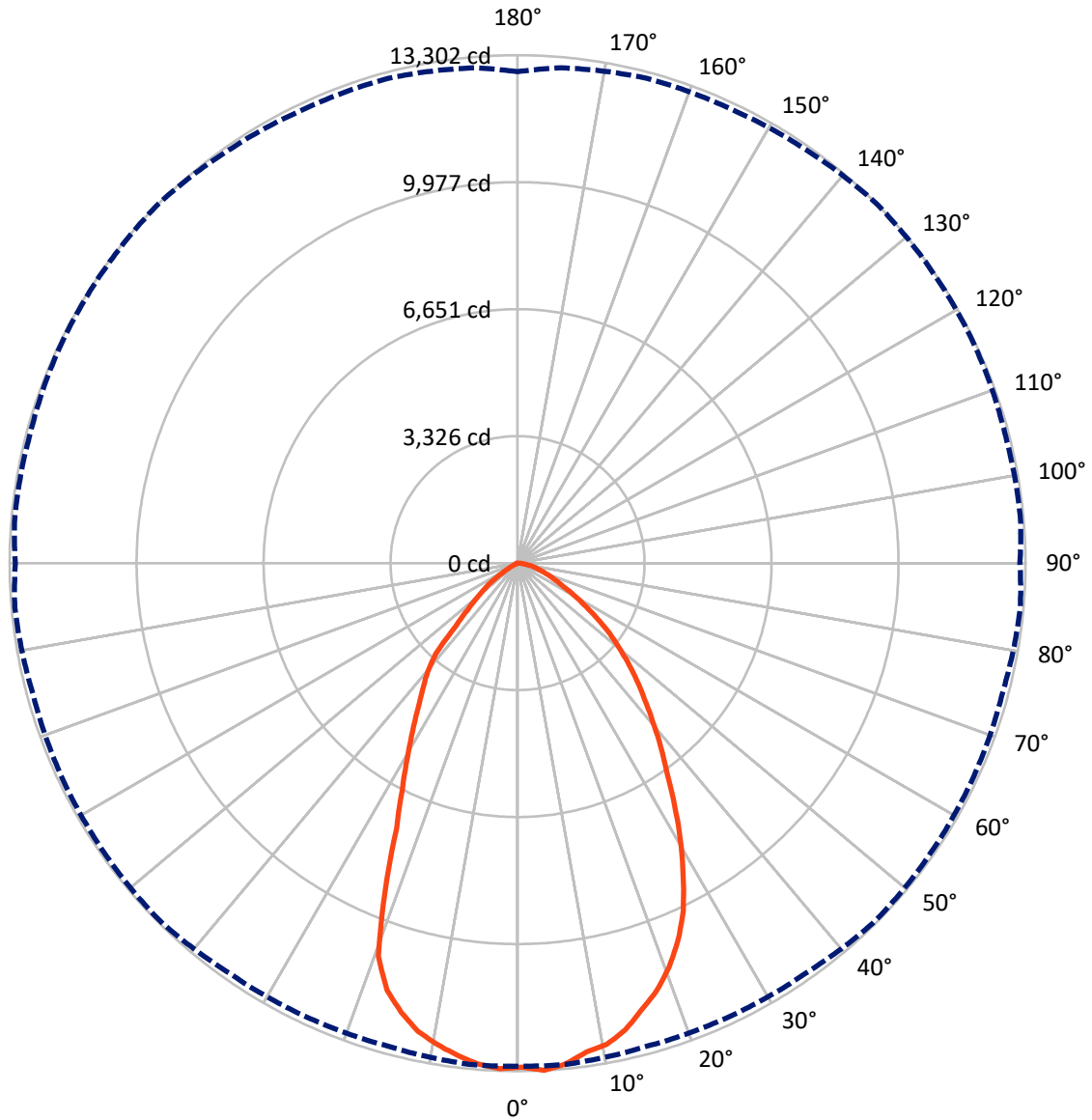
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 33 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10270.8	0.0	10270.8
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	7071.2	0.0	7071.2
	% Fixture	40.8	0.0	40.8
Total	Lumens	17342.0	0.0	17342.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1237.7	7.1
10°-20°	3318.9	19.1
20°-30°	4047.6	23.3
30°-40°	3695.5	21.3
40°-50°	2670.6	15.4
50°-60°	1458.2	8.4
60°-70°	602.9	3.5
70°-80°	244.2	1.4
80°-90°	66.4	0.4
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°	17342.0	100.0
0°-180°	17342.0	100.0



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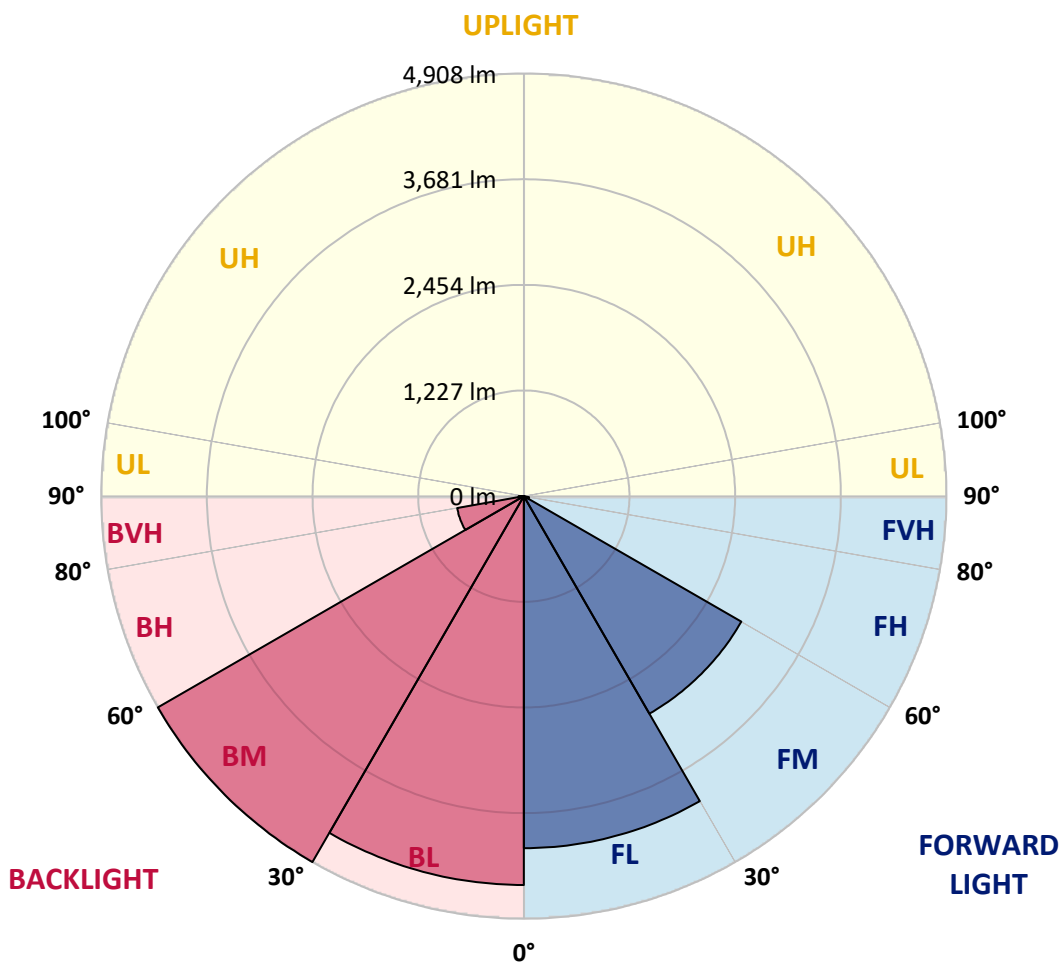
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4088.2	23.6			
FM (30°-60°)	2916.6	16.8			
FH (60°-80°)	61.1	0.4			G0/660
FVH (80°-90°)	5.3	0.0			G0/10
BL (0°-30°)	4516.1	26.0	B4/5000		
BM (30°-60°)	4907.6	28.3	B3/5000		
BH (60°-80°)	786.0	4.5	B2/1000		G2/1000
BVH (80°-90°)	61.1	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13197.2	13197.2	13197.2	13197.2	13197.2	13197.2	13197.2	13197.2	13197.2	13197.2
2.5°	13172.8	13189.9	13097.1	13106.9	13124.0	13248.5	13216.8	13187.5	13146.0	13216.8
5°	13155.7	13165.5	13067.8	13033.6	13048.3	13160.6	13058.0	13058.0	13048.3	13036.1
7.5°	13023.8	13028.7	12953.0	12892.0	12931.0	12982.3	12906.6	12943.3	12889.5	12931.0
10°	12826.0	12794.3	12703.9	12686.8	12730.8	12779.6	12728.3	12762.5	12713.7	12745.4
12.5°	12535.4	12486.6	12413.3	12391.3	12467.0	12533.0	12491.5	12471.9	12408.4	12486.6
15°	11414.5	11377.9	11543.9	11834.5	12095.8	12152.0	12108.0	12127.6	11995.7	12017.7
17.5°	9394.8	9326.5	9504.7	10193.4	11175.2	11692.9	11653.8	11526.8	11331.5	11375.4
20°	8537.7	8518.1	8498.6	8662.2	9348.4	10918.7	10972.5	10650.1	10371.7	10310.6
22.5°	8054.1	8046.8	8027.3	8063.9	8244.6	9253.2	9868.6	9570.7	9385.1	9368.0
25°	7612.1	7599.9	7541.3	7587.7	7587.7	7646.3	8435.1	8615.8	8452.2	8432.7
27.5°	7162.7	7140.8	7131.0	7153.0	7040.6	6645.0	6845.3	7726.9	7641.4	7646.3
30°	6676.8	6669.4	6642.6	6689.0	6342.2	5851.3	5724.3	6921.0	6938.1	6933.2
32.5°	5953.9	5985.6	6107.8	6159.0	5587.6	5182.2	4969.7	5988.1	6337.3	6330.0
35°	4325.0	4325.0	4723.1	5463.0	4896.5	4591.2	4476.4	5077.2	5743.9	5768.3
37.5°	3555.7	3567.9	3646.1	3983.1	4224.9	4117.4	4083.2	4273.7	4981.9	5021.0
40°	3199.2	3199.2	3199.2	3060.0	3052.7	3709.6	3690.0	3629.0	4303.0	4388.5
42.5°	2874.4	2881.7	2886.6	2534.9	2339.6	3206.5	3162.5	3069.7	3694.9	3795.1
45°	2539.8	2552.0	2566.7	2119.8	2034.3	2307.8	2676.6	2574.0	3094.2	3223.6
47.5°	1550.7	1570.3	1902.4	1797.4	1807.2	1780.3	2183.3	2166.2	2537.4	2720.5
50°	1047.7	1055.0	1086.7	1140.5	1550.7	1399.3	1545.9	1792.5	1926.8	2205.2
52.5°	879.2	891.4	813.2	740.0	1018.4	1094.1	1079.4	1331.0	1384.7	1729.0
55°	617.9	656.9	620.3	613.0	578.8	849.9	818.1	1023.2	1057.4	1313.9
57.5°	63.5	73.3	127.0	456.7	378.5	481.1	583.7	749.7	783.9	969.5
60°	4.9	4.9	12.2	63.5	276.0	288.2	403.0	461.6	527.5	676.5
62.5°	0.0	2.4	4.9	9.8	44.0	153.9	202.7	241.8	317.5	437.1
65°	0.0	0.0	2.4	7.3	9.8	58.6	78.1	127.0	173.4	271.1
67.5°	0.0	0.0	2.4	4.9	7.3	14.7	26.9	46.4	92.8	153.9
70°	0.0	0.0	2.4	4.9	7.3	12.2	19.5	29.3	41.5	83.0
72.5°	0.0	0.0	2.4	2.4	4.9	12.2	14.7	19.5	29.3	41.5
75°	0.0	0.0	2.4	2.4	7.3	14.7	12.2	14.7	19.5	26.9
77.5°	0.0	0.0	2.4	4.9	7.3	14.7	12.2	14.7	14.7	17.1
80°	0.0	0.0	2.4	4.9	9.8	17.1	14.7	14.7	12.2	12.2
82.5°	0.0	0.0	2.4	7.3	9.8	22.0	22.0	19.5	9.8	7.3
85°	0.0	0.0	4.9	9.8	14.7	24.4	24.4	19.5	7.3	4.9
87.5°	0.0	0.0	4.9	7.3	12.2	17.1	24.4	19.5	7.3	2.4
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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
13197.2	0°	13197.2	13197.2	13197.2	13197.2	13197.2	13197.2	13197.2	13197.2	13197.2
13155.7	2.5°	13221.7	13207.0	13255.8	13275.4	13302.2	13199.7	13136.2	13138.6	13021.4
13006.7	5°	13084.9	13087.3	13150.8	13146.0	13172.8	13116.6	13092.2	13050.7	12948.1
12818.7	7.5°	12911.5	12889.5	12950.6	12997.0	12928.6	12967.7	12911.5	12931.0	12870.0
12652.6	10°	12777.2	12725.9	12782.1	12813.8	12816.3	12777.2	12723.5	12672.2	12650.2
12393.8	12.5°	12479.3	12413.3	12508.6	12552.5	12545.2	12469.5	12408.4	12420.6	12349.8
11939.5	15°	12069.0	12071.4	12139.8	12181.3	12142.2	12125.1	12130.0	12100.7	12039.7
11311.9	17.5°	11441.3	11478.0	11658.7	11758.8	11780.8	11746.6	11729.5	11695.3	11634.3
10310.6	20°	10396.1	10615.9	10938.3	11248.4	11309.5	11299.7	11238.7	11224.0	11189.8
9319.1	22.5°	9477.9	9641.5	10015.1	10498.7	10747.8	10772.2	10698.9	10677.0	10640.3
8432.7	25°	8527.9	8703.7	9040.7	9565.8	10081.1	10186.1	10173.9	10107.9	10068.9
7646.3	27.5°	7726.9	7902.7	8208.0	8681.7	9233.7	9570.7	9602.4	9497.4	9495.0
6945.4	30°	7004.0	7245.8	7477.8	7863.6	8398.5	8904.0	8957.7	8884.4	8891.8
6303.1	32.5°	6437.4	6637.7	6835.5	7094.4	7538.8	8127.4	8337.4	8269.0	8242.2
5768.3	35°	5858.7	5995.4	6198.1	6435.0	6737.8	7321.5	7685.4	7634.1	7607.2
5045.4	37.5°	5199.3	5433.7	5580.3	5846.4	6083.3	6547.3	7060.2	7052.9	6996.7
4430.0	40°	4522.8	4769.5	4991.7	5260.3	5443.5	5812.3	6381.3	6378.8	6386.2
3792.6	42.5°	3909.8	4137.0	4405.6	4698.6	4874.5	5143.1	5753.6	5787.8	5829.3
3267.6	45°	3355.5	3560.6	3809.7	4166.3	4378.7	4532.6	5074.7	5231.0	5228.6
2798.7	47.5°	2857.3	3050.2	3260.2	3607.0	3878.1	4017.3	4466.6	4688.9	4674.2
2295.6	50°	2398.2	2569.1	2788.9	3040.4	3404.3	3526.4	3861.0	4154.1	4132.1
1829.2	52.5°	1929.3	2166.2	2351.8	2581.3	2964.7	3084.4	3343.3	3629.0	3611.9
1372.5	55°	1504.3	1733.9	1958.6	2156.4	2478.8	2657.0	2842.6	3135.7	3130.8
1074.5	57.5°	1138.0	1389.6	1602.0	1790.1	2046.5	2266.3	2415.3	2681.5	2715.6
735.1	60°	842.5	1035.5	1265.0	1475.0	1677.7	1904.9	2005.0	2266.3	2280.9
503.1	62.5°	573.9	786.4	1011.0	1201.5	1352.9	1587.4	1677.7	1892.6	1919.5
322.4	65°	398.1	534.8	791.2	928.0	1113.6	1313.9	1404.2	1575.2	1628.9
185.6	67.5°	263.7	381.0	617.9	742.4	925.6	1062.3	1177.1	1316.3	1374.9
117.2	70°	144.1	280.8	442.0	586.1	744.8	876.7	989.1	1101.4	1152.7
53.7	72.5°	97.7	188.0	307.7	464.0	600.8	730.2	830.3	913.4	915.8
31.7	75°	48.8	127.0	234.4	359.0	468.9	595.9	686.2	735.1	676.5
19.5	77.5°	29.3	92.8	190.5	288.2	381.0	481.1	532.4	559.2	464.0
14.7	80°	17.1	65.9	149.0	229.6	263.7	354.1	403.0	410.3	310.1
9.8	82.5°	12.2	48.8	117.2	168.5	161.2	249.1	302.8	293.1	197.8
7.3	85°	7.3	34.2	73.3	105.0	97.7	163.6	175.8	180.7	114.8
4.9	87.5°	4.9	19.5	39.1	56.2	46.4	70.8	70.8	85.5	56.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
13197.2
<i>12870.0</i>
12923.7
12767.4
12552.5
12288.8
11978.6
11607.4
11111.7
10630.6
10027.4
9490.1
8855.1
8244.6
7570.6
7043.1
6386.2
5807.4
5233.5
4679.1
4151.6
3648.5
3143.0
2701.0
2302.9
1924.4
1616.7
1367.6
1133.1
893.8
632.5
446.9
290.6
183.2
105.0
48.8
0.0

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