

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: P637918

Luminaire Tested: **IFLD-L-SA7B-740-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637918
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-740-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30028.5 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

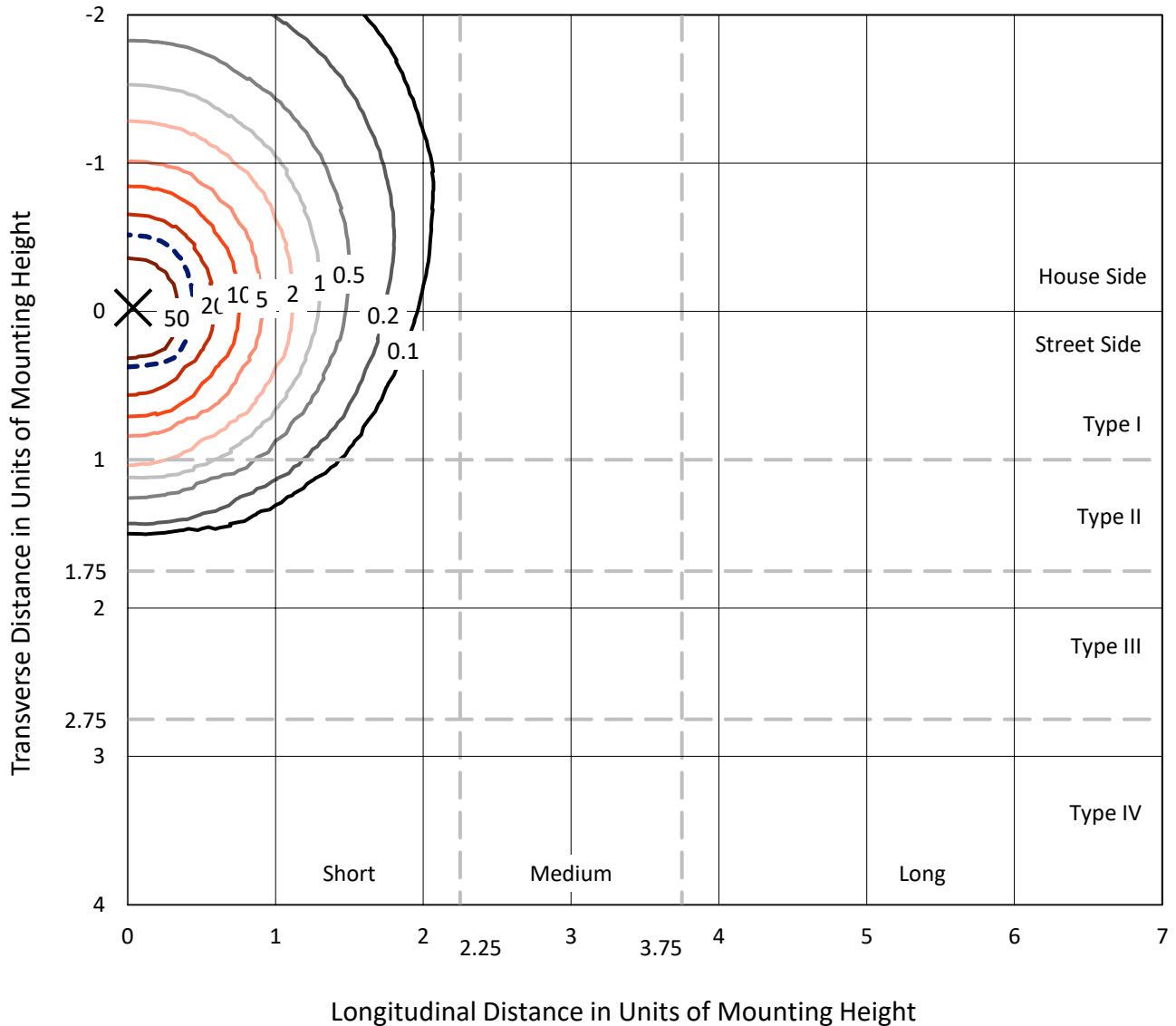
Input Watts (W): 281
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

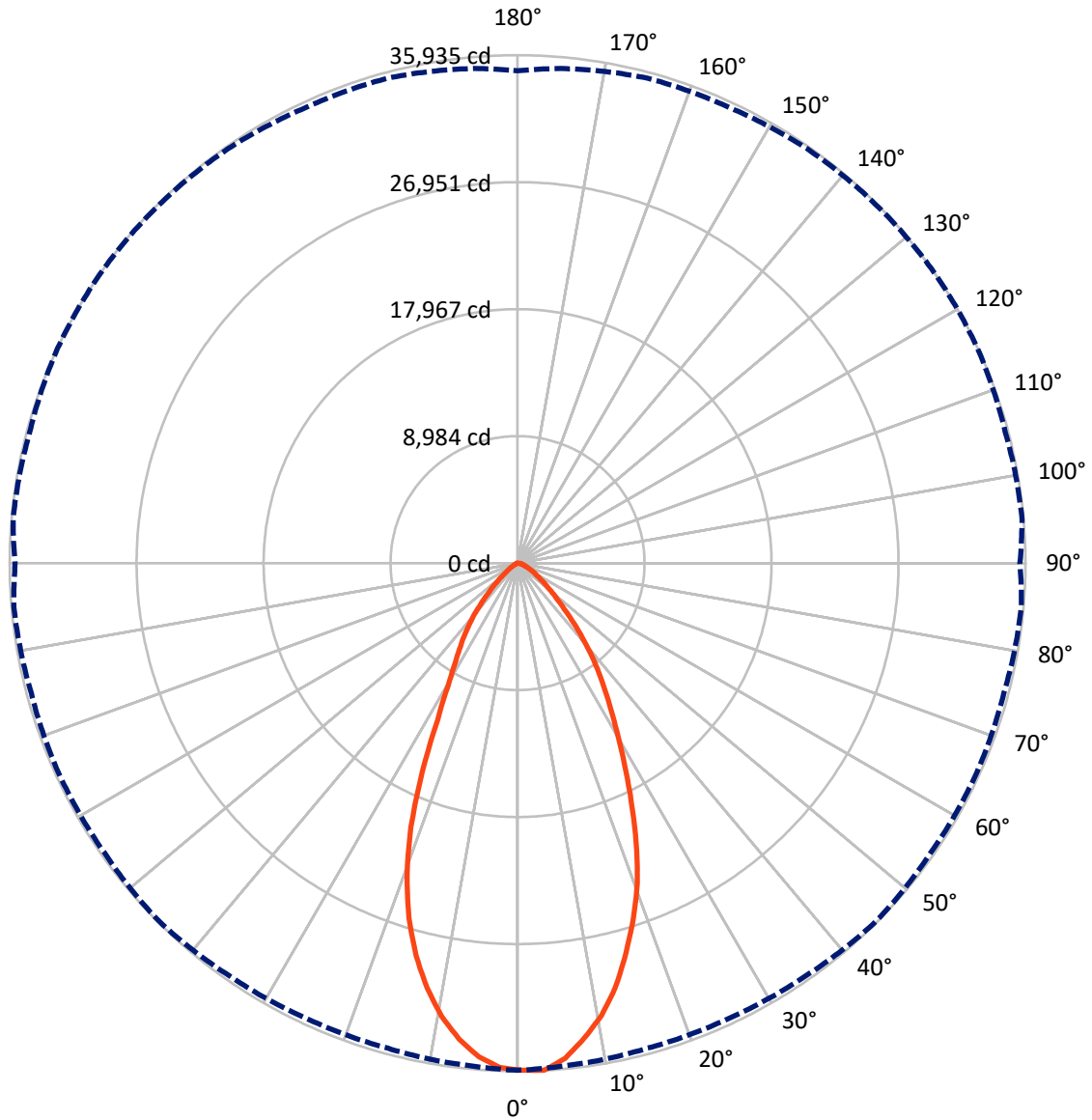
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 89.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17039.4	0.0	17039.4
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	12989.2	0.0	12989.2
	% Fixture	43.3	0.0	43.3
Total	Lumens	30028.5	0.0	30028.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3257.8	10.8
10°-20°	7765.8	25.9
20°-30°	7909.3	26.3
30°-40°	5897.9	19.6
40°-50°	3081.2	10.3
50°-60°	1296.0	4.3
60°-70°	529.3	1.8
70°-80°	222.7	0.7
80°-90°	68.6	0.2
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°	30028.5	100.0
0°-180°	30028.5	100.0



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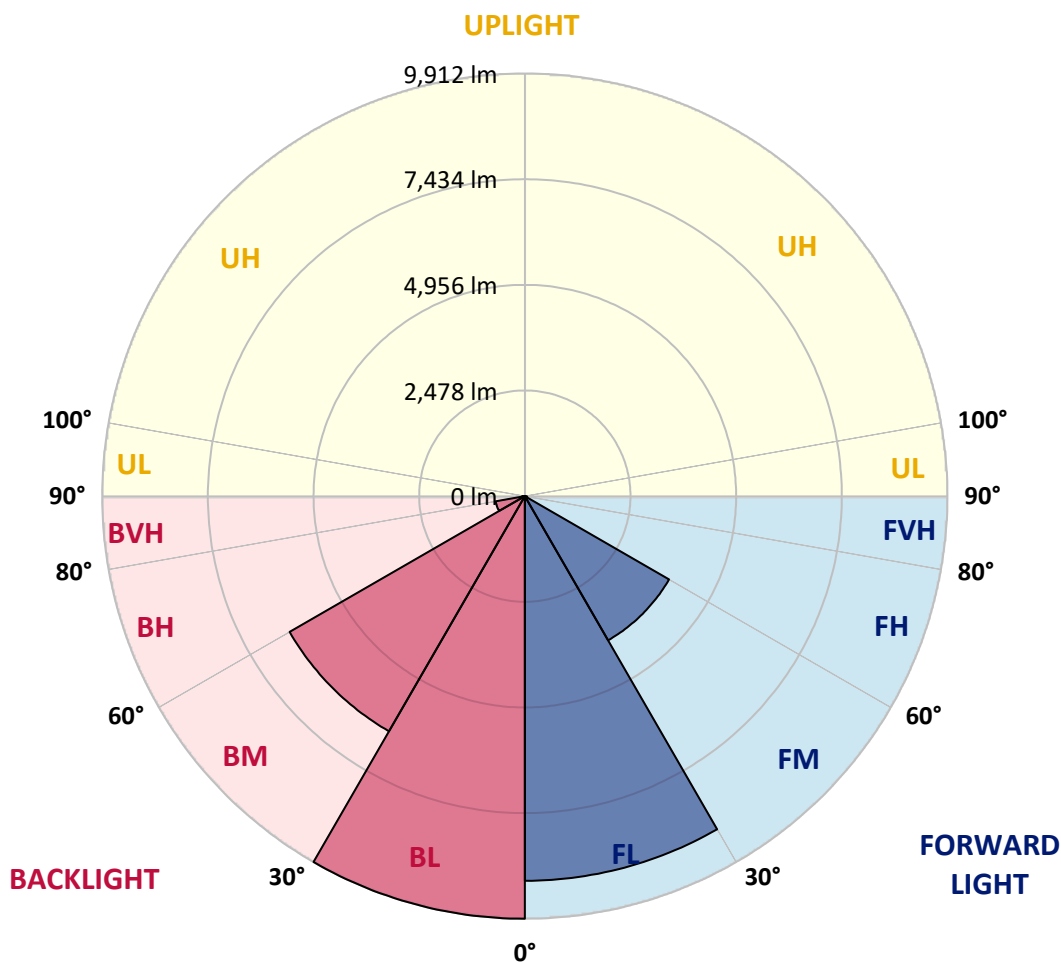
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9020.9	30.0			
FM (30°-60°)	3905.3	13.0			
FH (60°-80°)	56.5	0.2			G0/660
FVH (80°-90°)	6.4	0.0			G0/10
BL (0°-30°)	9911.8	33.0	B5		
BM (30°-60°)	6369.8	21.2	B4/8500		
BH (60°-80°)	695.5	2.3	B2/1000		G2/1000
BVH (80°-90°)	62.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	35876.8	35876.8	35876.8	35876.8	35876.8	35876.8	35876.8	35876.8	35876.8	35876.8
2.5°	35880.7	35734.1	35525.8	35506.5	35614.5	35849.8	35699.4	35707.1	35614.5	35772.7
5°	35317.5	35178.7	35035.9	34846.9	35005.1	35105.4	35028.2	34943.4	34823.8	34978.1
7.5°	34252.9	34175.8	33963.6	33878.8	33975.2	34087.0	33921.2	33898.0	33732.2	33932.8
10°	32625.1	32594.3	32386.0	32335.8	32420.7	32590.4	32517.1	32501.7	32397.5	32378.3
12.5°	30935.6	30816.0	30557.6	30542.2	30669.5	30924.1	30727.3	30538.3	30596.2	30646.3
15°	26584.6	26457.3	27097.6	28104.4	28632.8	28613.5	28671.4	28443.8	28374.4	28397.5
17.5°	21134.2	20918.2	21149.6	22708.0	25219.1	26677.2	26276.0	25786.1	25523.8	25350.2
20°	18241.2	18252.8	18210.4	18611.5	20177.6	23502.6	23406.2	22461.1	22117.8	21975.1
22.5°	16482.3	16416.7	16324.1	16451.4	16871.9	18823.7	20131.3	19263.4	19143.8	18985.7
25°	14758.1	14758.1	14646.2	14773.5	14893.1	14920.1	16231.6	16586.4	16355.0	16355.0
27.5°	13265.3	13188.1	13138.0	13195.9	13037.7	12277.8	12443.7	14260.5	14102.3	14005.9
30°	11784.1	11760.9	11676.1	11753.2	11166.9	10310.6	9963.4	12034.8	12200.7	12166.0
32.5°	9728.1	9820.7	10198.7	10318.3	9315.4	8624.9	8293.2	9990.4	10653.9	10626.9
35°	6611.4	6688.6	7120.6	8547.8	7722.3	7228.6	7132.2	7946.1	9037.7	9141.8
37.5°	5265.2	5253.7	5377.1	5631.7	6206.4	6086.8	6059.8	6272.0	7371.3	7417.6
40°	4339.5	4324.0	4320.2	4111.9	3969.2	5060.8	4987.5	4860.2	5813.0	5905.5
42.5°	3498.6	3514.0	3525.6	3070.4	2862.1	3903.6	3861.2	3730.0	4559.3	4667.3
45°	2746.4	2742.5	2765.7	2287.4	2229.5	2495.7	2885.3	2781.1	3440.7	3556.4
47.5°	1423.3	1473.5	1785.9	1770.5	1797.5	1770.5	2183.2	2156.2	2588.3	2773.4
50°	956.6	972.0	999.0	1002.9	1415.6	1303.8	1481.2	1677.9	1812.9	2098.4
52.5°	740.6	752.2	682.7	640.3	867.9	964.3	972.0	1161.1	1265.2	1554.5
55°	412.7	462.9	497.6	501.5	478.3	713.6	709.7	860.2	941.2	1134.0
57.5°	54.0	65.6	100.3	324.0	320.2	397.3	497.6	624.9	671.2	829.3
60°	3.9	7.7	11.6	50.1	212.2	231.4	339.4	389.6	466.7	582.5
62.5°	0.0	0.0	3.9	11.6	42.4	135.0	177.4	204.4	273.9	381.9
65°	0.0	0.0	3.9	7.7	15.4	50.1	69.4	111.9	162.0	235.3
67.5°	0.0	0.0	3.9	7.7	11.6	19.3	30.9	50.1	84.9	142.7
70°	0.0	0.0	3.9	7.7	11.6	15.4	23.1	30.9	46.3	77.1
72.5°	0.0	0.0	3.9	3.9	7.7	19.3	19.3	23.1	30.9	42.4
75°	0.0	0.0	3.9	7.7	11.6	19.3	19.3	19.3	23.1	27.0
77.5°	0.0	0.0	3.9	7.7	11.6	19.3	15.4	19.3	19.3	19.3
80°	0.0	0.0	3.9	7.7	11.6	19.3	23.1	19.3	15.4	15.4
82.5°	0.0	0.0	3.9	11.6	11.6	27.0	27.0	27.0	11.6	11.6
85°	0.0	0.0	7.7	11.6	19.3	30.9	30.9	23.1	11.6	7.7
87.5°	0.0	0.0	3.9	7.7	7.7	15.4	23.1	19.3	7.7	3.9
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°
35876.8	0°	35876.8	35876.8	35876.8	35876.8	35876.8	35876.8	35876.8	35876.8	35876.8
35541.3	2.5°	35826.7	35730.3	35911.6	35934.7	35857.6	35761.1	35537.4	35518.1	35128.5
34754.4	5°	35147.8	34989.7	35105.4	35182.5	35155.5	35051.4	34958.8	34873.9	34522.9
33477.6	7.5°	33882.6	33824.8	33878.8	33936.6	34048.5	33936.6	33898.0	33809.3	33462.2
32220.1	10°	32478.5	32370.5	32575.0	32548.0	32517.1	32486.3	32324.3	32339.7	31930.8
30507.5	12.5°	30754.3	30573.0	30769.8	30792.9	30769.8	30661.8	30480.5	30557.6	30183.4
28193.1	15°	28436.1	28416.8	28559.5	28652.1	28717.7	28602.0	28540.2	28578.8	28355.1
25215.2	17.5°	25589.4	25840.1	26306.9	26465.0	26468.9	26588.4	26553.7	26507.4	26341.6
21917.2	20°	22241.2	22723.4	23440.9	24177.6	24389.8	24289.5	24243.2	24328.1	24081.2
18819.8	22.5°	19151.5	19564.3	20397.5	21473.6	22094.7	22156.4	22144.8	22071.5	21975.1
16339.6	25°	16528.6	16895.0	17693.5	18677.1	19869.0	20046.4	20054.2	20031.0	19946.1
14090.8	27.5°	14314.5	14758.1	15197.8	16077.3	17346.3	18079.2	17986.6	17959.6	17928.8
12193.0	30°	12308.7	12868.0	13280.7	13828.5	14966.4	15957.7	16054.1	16007.8	15934.5
10623.0	32.5°	10719.5	11051.2	11575.8	11946.1	12763.8	13886.3	14256.6	14221.9	14156.3
9207.4	35°	9338.5	9469.7	9882.4	10295.2	10839.0	11926.8	12474.5	12397.4	12385.8
7502.5	37.5°	7691.5	8131.2	8358.8	8775.4	9157.3	10002.0	10758.0	10723.3	10727.2
6032.8	40°	6210.3	6464.9	6916.2	7267.2	7618.2	8235.4	9076.3	9099.4	9091.7
4671.2	42.5°	4767.6	5014.5	5489.0	5870.8	6183.3	6565.1	7367.5	7394.5	7429.2
3637.4	45°	3722.3	3880.5	4227.6	4624.9	4956.6	5188.1	5797.5	5971.1	5975.0
2819.7	47.5°	2889.1	3070.4	3317.3	3699.2	4023.2	4189.0	4632.6	4867.9	4856.4
2164.0	50°	2268.1	2434.0	2634.5	2935.4	3286.4	3417.6	3745.4	3976.9	3965.3
1631.6	52.5°	1735.8	1947.9	2125.4	2356.8	2700.1	2812.0	3047.3	3313.4	3274.9
1195.8	55°	1315.3	1531.4	1697.2	1890.1	2202.5	2345.2	2507.3	2719.4	2727.1
925.8	57.5°	991.3	1215.1	1365.5	1562.2	1797.5	1955.7	2079.1	2306.7	2302.8
632.6	60°	709.7	902.6	1083.9	1288.3	1469.6	1650.9	1735.8	1951.8	1959.5
447.4	62.5°	513.0	694.3	867.9	1045.3	1207.3	1384.8	1461.9	1631.6	1654.8
293.2	65°	358.7	486.0	686.6	821.6	1002.9	1134.0	1234.3	1380.9	1407.9
173.6	67.5°	231.4	351.0	543.9	663.5	829.3	941.2	1045.3	1161.1	1195.8
111.9	70°	138.9	266.2	405.0	532.3	682.7	783.0	883.3	983.6	1002.9
54.0	72.5°	88.7	185.2	293.2	432.0	547.7	655.7	744.5	817.7	759.9
34.7	75°	50.1	127.3	231.4	339.4	443.6	547.7	621.0	659.6	528.5
23.1	77.5°	30.9	92.6	189.0	273.9	343.3	439.7	486.0	509.2	378.0
15.4	80°	19.3	69.4	158.1	223.7	223.7	324.0	378.0	397.3	273.9
11.6	82.5°	15.4	50.1	123.4	169.7	150.4	243.0	297.0	300.9	192.9
7.7	85°	11.6	38.6	77.1	111.9	104.1	169.7	173.6	192.9	127.3
7.7	87.5°	7.7	23.1	46.3	65.6	57.9	81.0	92.6	104.1	69.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
35876.8
34823.8
34241.3
33388.9
31791.9
30075.4
28085.1
26094.7
23903.7
21789.9
19660.7
17747.5
15842.0
13982.7
12258.5
10603.7
8956.7
7313.5
5874.7
4813.9
3965.3
3278.7
2727.1
2295.1
1940.2
1647.1
1400.2
1191.9
987.5
705.9
501.5
354.9
254.6
177.4
115.7
61.7
0.0

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