

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: P637417

Luminaire Tested: **IFLD-S-SA6D-750-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637417
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-750-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (96) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45107.8 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

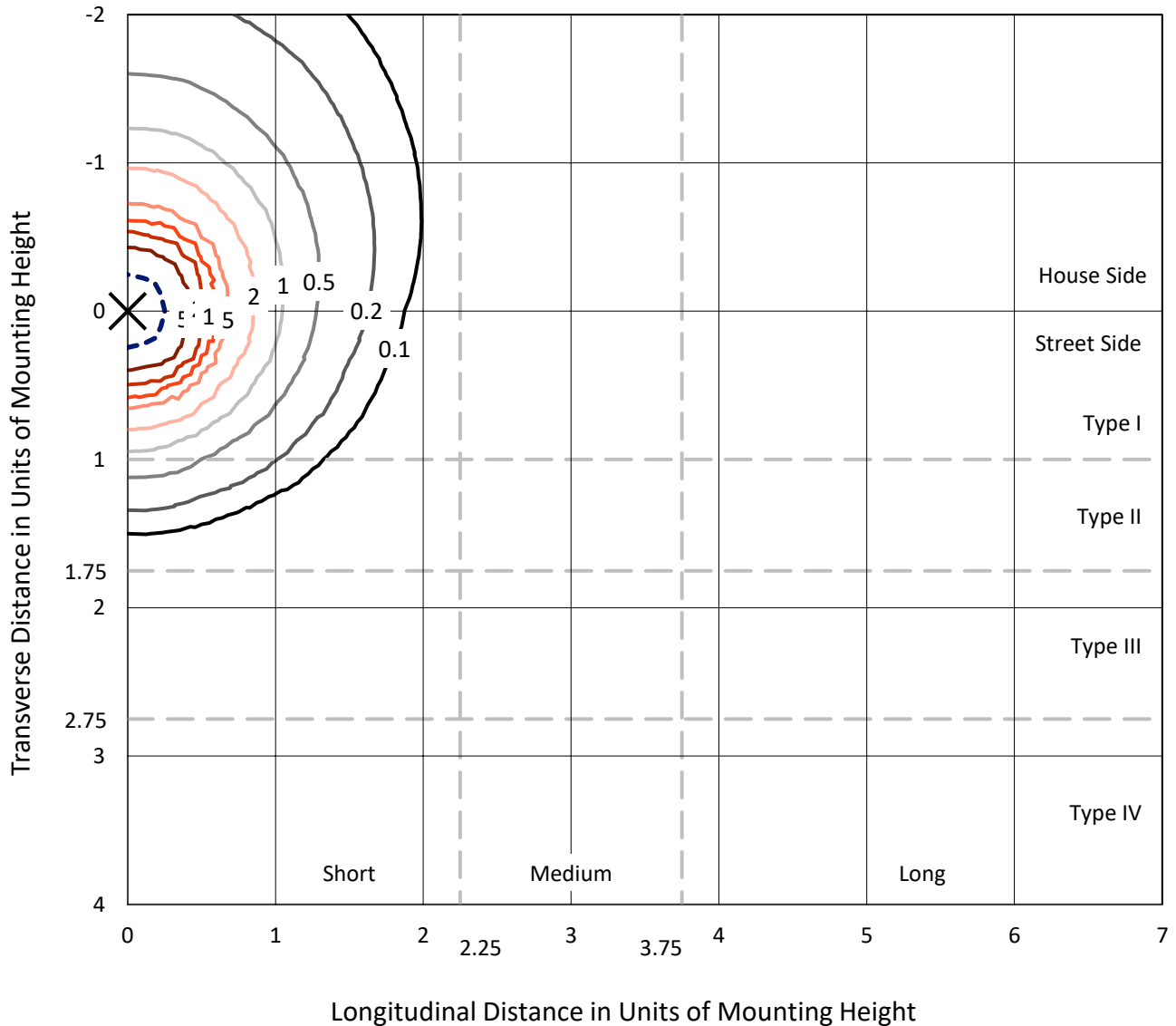
Input Watts (W): 368.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

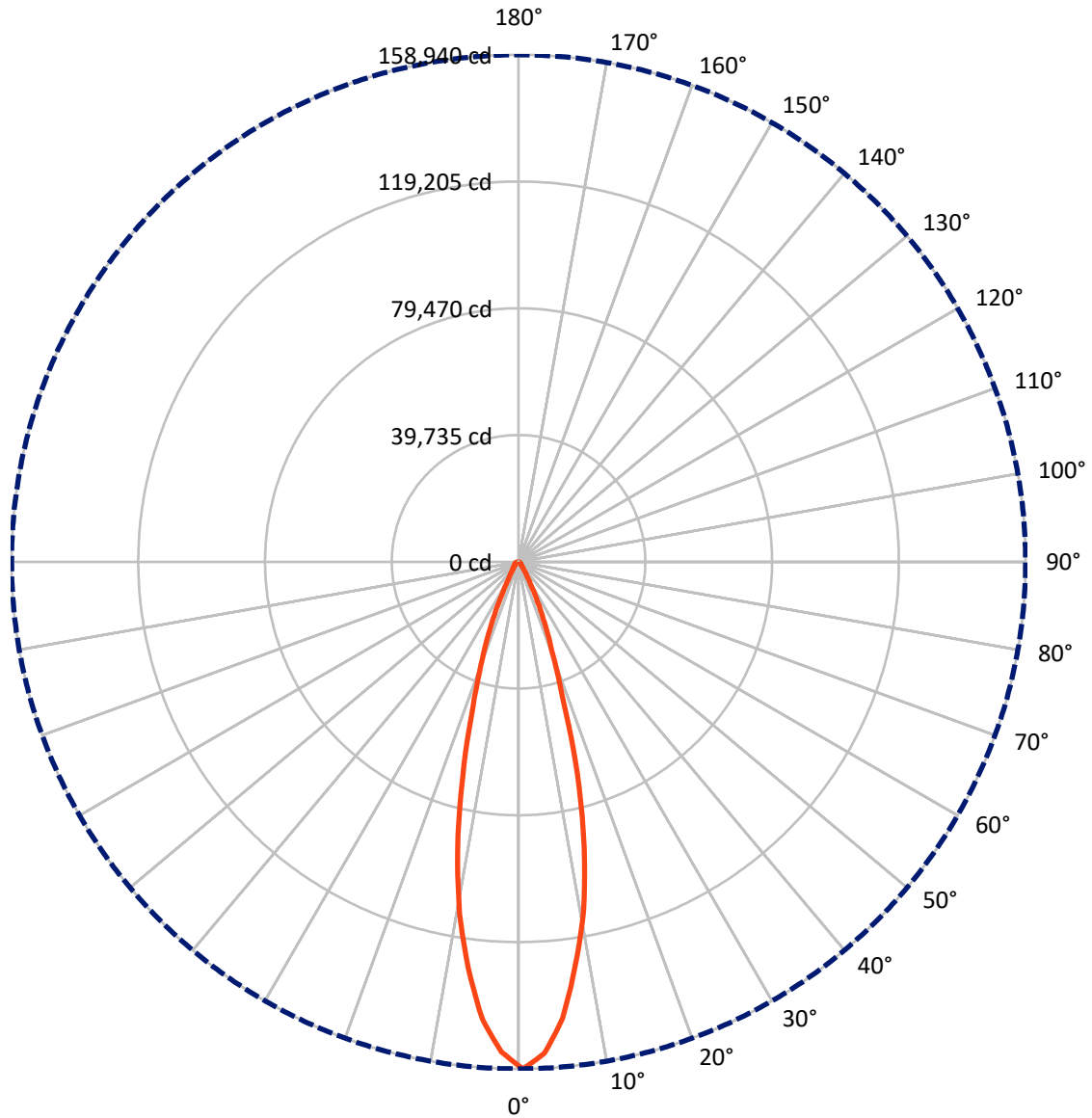
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 397.4 fc
 Type V - Short - N/A

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CATALOG NUMBER: IFLD-S-SA6D-750-U-44-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23783.8	0.0	23783.8
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	21323.9	0.0	21323.9
	% Fixture	47.3	0.0	47.3
Total	Lumens	45107.8	0.0	45107.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12827.9	28.4
10°-20°	19427.7	43.1
20°-30°	8198.6	18.2
30°-40°	2138.3	4.7
40°-50°	1081.5	2.4
50°-60°	706.9	1.6
60°-70°	423.5	0.9
70°-80°	222.8	0.5
80°-90°	80.5	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°	45107.8	100.0
0°-180°	45107.8	100.0

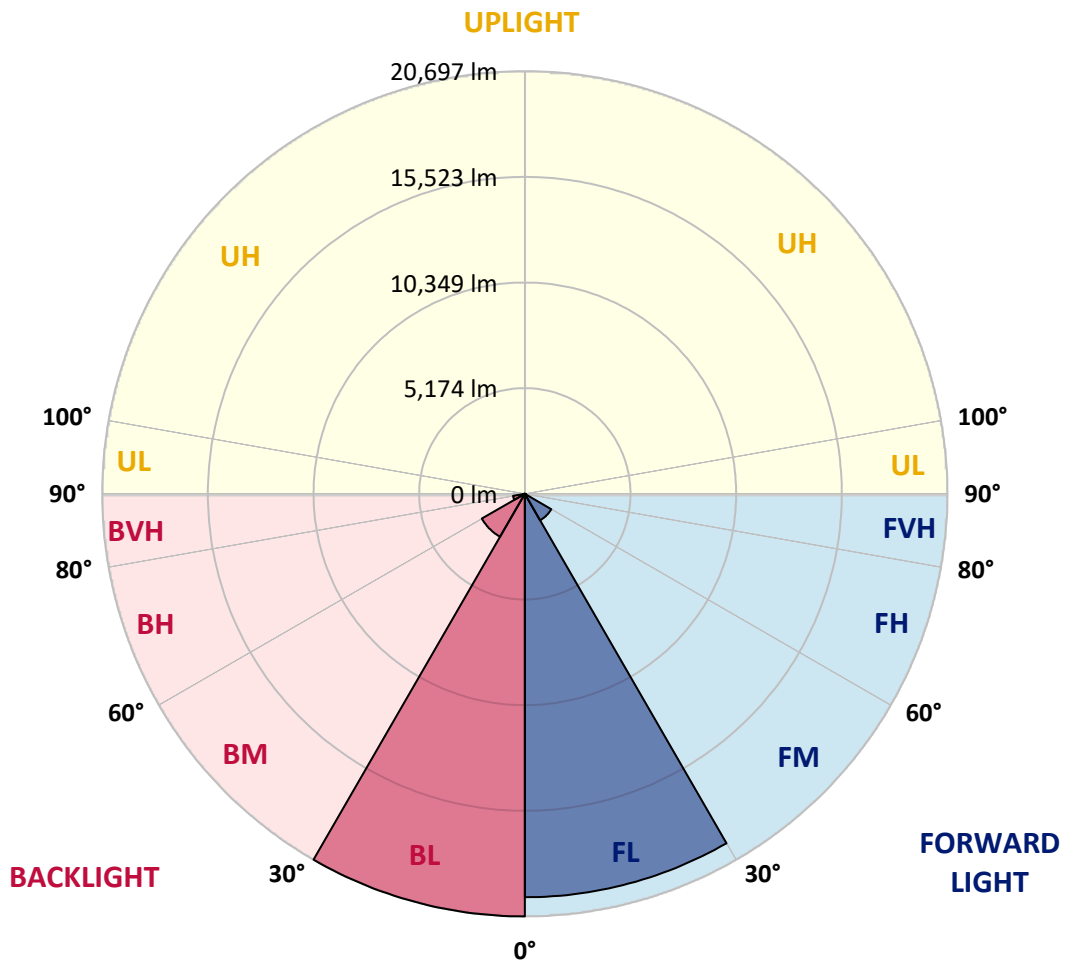


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	19756.9	43.8			
FM (30°-60°)	1496.2	3.3			
FH (60°-80°)	61.0	0.1			G0/660
FVH (80°-90°)	9.8	0.0			G0/10
BL (0°-30°)	20697.4	45.9	B5		
BM (30°-60°)	2430.4	5.4	B2/2500		
BH (60°-80°)	585.4	1.3	B2/1000		G0/660
BVH (80°-90°)	70.7	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-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	158940.3	158940.3	158940.3	158940.3	158940.3	158940.3	158940.3	158940.3	158940.3	158940.3
2.5°	154310.3	154396.4	154077.3	154766.2	154229.2	155667.9	154953.6	156068.1	155693.2	156316.3
5°	143773.7	143631.9	143540.7	144609.5	144300.5	145845.6	144857.8	144533.6	145536.6	145354.2
7.5°	127862.5	128237.3	128024.6	128303.2	128460.2	130223.1	130780.3	130344.6	130359.8	130613.1
10°	111551.0	110998.9	110213.7	110735.4	111839.8	112609.7	112300.7	112939.0	112797.2	113400.0
12.5°	91480.8	91916.5	91475.8	91009.7	92939.8	92727.0	93264.0	93613.5	92737.1	94687.4
15°	68908.2	69136.2	69673.2	69637.7	71121.9	71420.8	71349.9	71719.7	71035.8	71360.0
17.5°	44268.8	45038.8	46482.5	48924.2	51669.8	51988.9	51907.9	51603.9	51274.7	50909.9
20°	29735.5	29654.4	30176.2	30890.4	36574.1	38078.6	38033.0	37080.7	35702.8	35439.4
22.5°	20830.0	20982.0	20911.1	21620.3	22795.5	26944.3	26432.6	25465.1	25014.3	24720.4
25°	13702.6	13646.9	14001.5	14214.3	15222.3	15728.9	17522.1	17162.5	16468.5	16544.5
27.5°	8353.3	8424.2	8555.9	8738.3	9452.5	9290.4	10313.7	10450.5	10227.6	9989.5
30°	5126.5	5177.1	5283.5	5415.2	5663.4	5486.1	5769.8	6261.2	6180.1	6012.9
32.5°	3480.1	3485.2	3561.2	3611.8	3581.4	3414.3	3505.4	3971.5	3981.6	3966.4
35°	2502.4	2502.4	2573.4	2613.9	2527.8	2391.0	2406.2	2694.9	2821.6	2846.9
37.5°	1727.4	1732.5	1854.0	1975.6	1879.4	1843.9	1783.1	1975.6	2178.2	2208.6
40°	1312.0	1306.9	1367.7	1458.9	1469.0	1403.2	1423.5	1545.0	1752.7	1778.0
42.5°	1063.8	1068.9	1099.2	1089.1	1094.2	1180.3	1210.7	1266.4	1458.9	1504.5
45°	896.6	901.7	916.9	866.2	846.0	977.7	1018.2	1048.6	1210.7	1266.4
47.5°	739.6	749.7	764.9	709.2	699.1	785.2	856.1	886.5	1028.3	1089.1
50°	531.9	542.0	597.7	567.4	597.7	618.0	714.3	759.8	856.1	937.1
52.5°	385.0	395.1	410.3	415.4	491.4	501.5	572.4	643.3	688.9	780.1
55°	303.9	314.1	303.9	293.8	359.7	415.4	440.7	516.7	552.2	658.5
57.5°	172.2	182.4	197.6	228.0	238.1	319.1	344.5	410.3	440.7	542.0
60°	30.4	35.5	55.7	136.8	167.2	202.6	258.3	314.1	354.6	425.5
62.5°	5.1	5.1	10.1	30.4	96.2	141.8	187.4	222.9	258.3	324.2
65°	0.0	0.0	5.1	10.1	25.3	81.1	101.3	131.7	177.3	233.0
67.5°	0.0	0.0	5.1	10.1	15.2	30.4	45.6	81.1	101.3	157.0
70°	0.0	0.0	5.1	10.1	15.2	20.3	25.3	35.5	60.8	96.2
72.5°	0.0	0.0	5.1	10.1	15.2	20.3	25.3	30.4	30.4	60.8
75°	0.0	0.0	5.1	10.1	15.2	25.3	30.4	30.4	25.3	25.3
77.5°	0.0	0.0	5.1	10.1	20.3	30.4	35.5	30.4	20.3	20.3
80°	0.0	0.0	10.1	15.2	25.3	35.5	45.6	35.5	20.3	10.1
82.5°	0.0	0.0	10.1	20.3	25.3	40.5	55.7	45.6	20.3	10.1
85°	0.0	0.0	5.1	15.2	30.4	40.5	55.7	40.5	20.3	5.1
87.5°	0.0	0.0	5.1	5.1	10.1	15.2	30.4	25.3	10.1	5.1
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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CATALOG NUMBER: IFLD-S-SA6D-750-U-44-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
158940.3	0°	158940.3	158940.3	158940.3	158940.3	158940.3	158940.3	158940.3	158940.3	158940.3
155136.0	2.5°	156027.5	156838.1	157005.2	156782.3	157106.5	156524.0	156078.2	154923.2	154229.2
145298.5	5°	146235.6	146114.0	146960.0	147238.6	147203.2	146757.4	146134.3	145435.2	144756.4
130121.7	7.5°	130932.2	131089.3	131859.3	132350.6	132102.4	131545.2	131114.6	130587.8	130131.9
113617.8	10°	114656.3	113577.3	114534.7	114534.7	115198.3	113622.9	113769.8	112442.6	112503.4
94652.0	12.5°	94976.2	95366.2	95523.2	95974.1	95199.0	94363.2	93339.9	93137.3	92504.1
70742.0	15°	71760.2	72874.7	71917.2	73553.5	72763.2	71891.9	71734.9	70164.5	70661.0
51310.1	17.5°	51056.8	52287.8	52672.8	53609.9	52890.6	52373.9	51720.4	51244.3	51208.8
35920.6	20°	36204.3	37440.3	37724.0	38848.6	38767.5	38605.4	38053.3	37450.5	36797.0
24452.0	22.5°	24821.8	25829.8	26772.0	28286.7	28261.3	27785.2	27729.5	26878.4	26893.6
16519.1	25°	16691.4	17425.9	17648.8	19198.9	19371.1	19320.4	19031.7	18241.5	18540.3
10090.8	27.5°	10100.9	10744.3	11499.1	12046.2	12562.8	12481.8	12193.1	11752.3	11559.8
6063.6	30°	6225.7	6514.4	6793.1	7451.6	7760.6	7922.7	7785.9	7375.6	7406.0
3991.7	32.5°	4077.9	4321.0	4523.6	4939.0	5101.1	5400.0	5344.3	5258.2	5156.8
2872.2	35°	2973.5	3150.8	3287.6	3480.1	3687.8	3941.1	3981.6	3946.2	3905.6
2218.8	37.5°	2269.4	2451.8	2608.8	2689.9	2852.0	3049.5	3161.0	3155.9	3125.5
1808.4	40°	1843.9	1980.7	2122.5	2228.9	2340.3	2487.2	2624.0	2639.2	2639.2
1519.7	42.5°	1540.0	1656.5	1798.3	1909.8	1990.8	2127.6	2269.4	2279.5	2269.4
1286.7	45°	1317.1	1418.4	1555.2	1686.9	1752.7	1854.0	1990.8	2021.2	2000.9
1104.3	47.5°	1144.8	1236.0	1352.5	1494.4	1565.3	1656.5	1783.1	1818.6	1813.5
952.3	50°	982.7	1089.1	1205.6	1322.1	1413.3	1499.4	1621.0	1661.5	1646.3
810.5	52.5°	866.2	962.5	1063.8	1190.4	1296.8	1372.8	1469.0	1540.0	1519.7
683.9	55°	724.4	840.9	947.3	1053.7	1185.4	1266.4	1357.6	1443.7	1423.5
577.5	57.5°	628.1	724.4	846.0	942.2	1073.9	1170.2	1261.4	1352.5	1347.5
471.1	60°	526.8	628.1	744.7	846.0	967.5	1073.9	1165.1	1266.4	1276.5
354.6	62.5°	415.4	537.0	638.3	754.8	876.4	992.9	1073.9	1175.2	1190.4
268.5	65°	314.1	440.7	552.2	663.6	785.2	911.8	982.7	1068.9	1084.1
197.6	67.5°	233.0	339.4	471.1	572.4	699.1	820.6	886.5	957.4	982.7
121.6	70°	177.3	258.3	395.1	491.4	623.1	719.3	790.2	851.0	871.3
81.1	72.5°	111.4	202.6	319.1	420.5	537.0	623.1	673.7	709.2	739.6
45.6	75°	76.0	157.0	258.3	359.7	445.8	511.6	557.2	587.6	612.9
20.3	77.5°	45.6	121.6	212.8	298.9	354.6	405.3	450.8	471.1	486.3
15.2	80°	25.3	91.2	177.3	243.2	278.6	314.1	349.5	374.9	385.0
10.1	82.5°	15.2	70.9	141.8	187.4	202.6	238.1	273.5	288.7	288.7
5.1	85°	10.1	50.7	96.2	136.8	146.9	172.2	182.4	192.5	202.6
5.1	87.5°	10.1	30.4	60.8	76.0	81.1	91.2	96.2	106.4	116.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
158940.3
153717.6
143996.6
128586.8
111910.7
91926.6
70164.5
50266.6
36513.3
26599.8
18069.2
11392.7
7274.3
5121.4
3890.4
3110.3
2608.8
2259.3
2000.9
1803.4
1636.2
1514.6
1433.6
1352.5
1281.6
1200.6
1099.2
992.9
881.4
734.5
607.9
481.2
374.9
283.7
197.6
111.4
0.0

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