

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: P637078

Luminaire Tested: **IFLD-L-SA7C-730-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637078
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-730-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40144.9 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

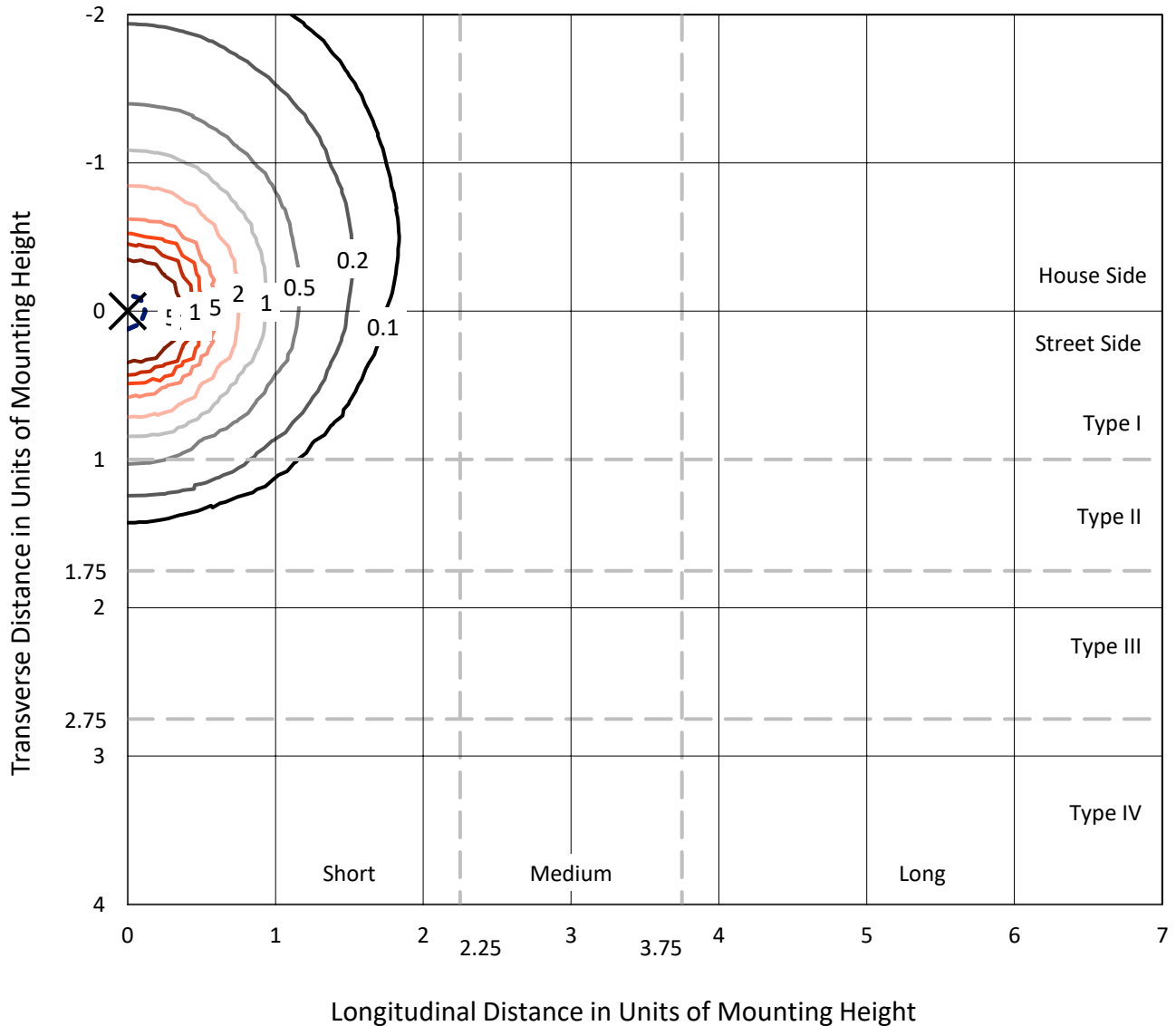
Input Watts (W): 369
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

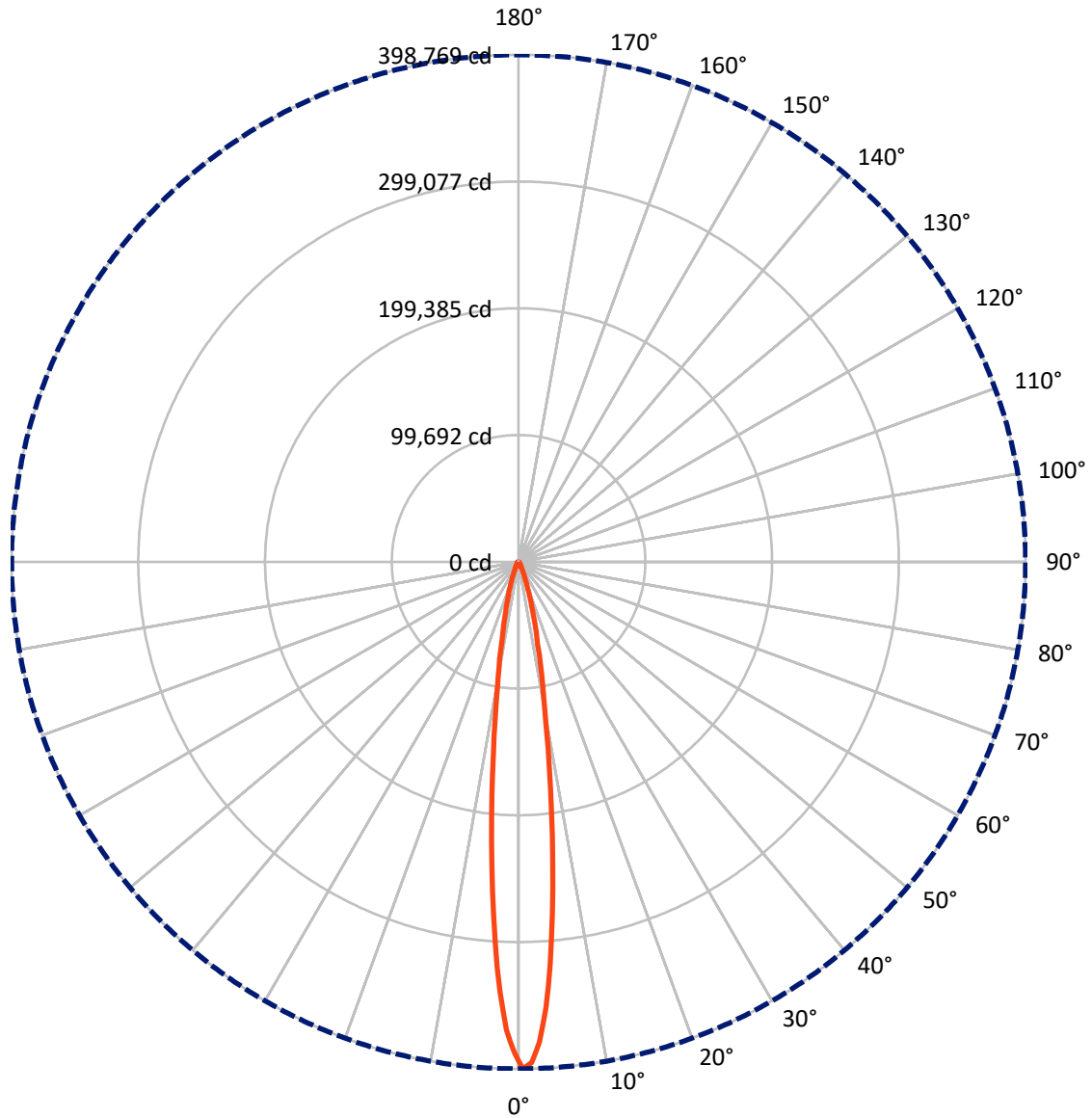
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 996.9 fc
 Type V - Short - N/A

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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	20561.5	0.0	20561.5
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	19583.4	0.0	19583.4
	% Fixture	48.8	0.0	48.8
Total	Lumens	40144.9	0.0	40144.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20266.4	50.5
10°-20°	12974.4	32.3
20°-30°	3899.9	9.7
30°-40°	1269.8	3.2
40°-50°	738.8	1.8
50°-60°	490.7	1.2
60°-70°	295.4	0.7
70°-80°	151.8	0.4
80°-90°	57.7	0.1
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°	40144.9	100.0
0°-180°	40144.9	100.0

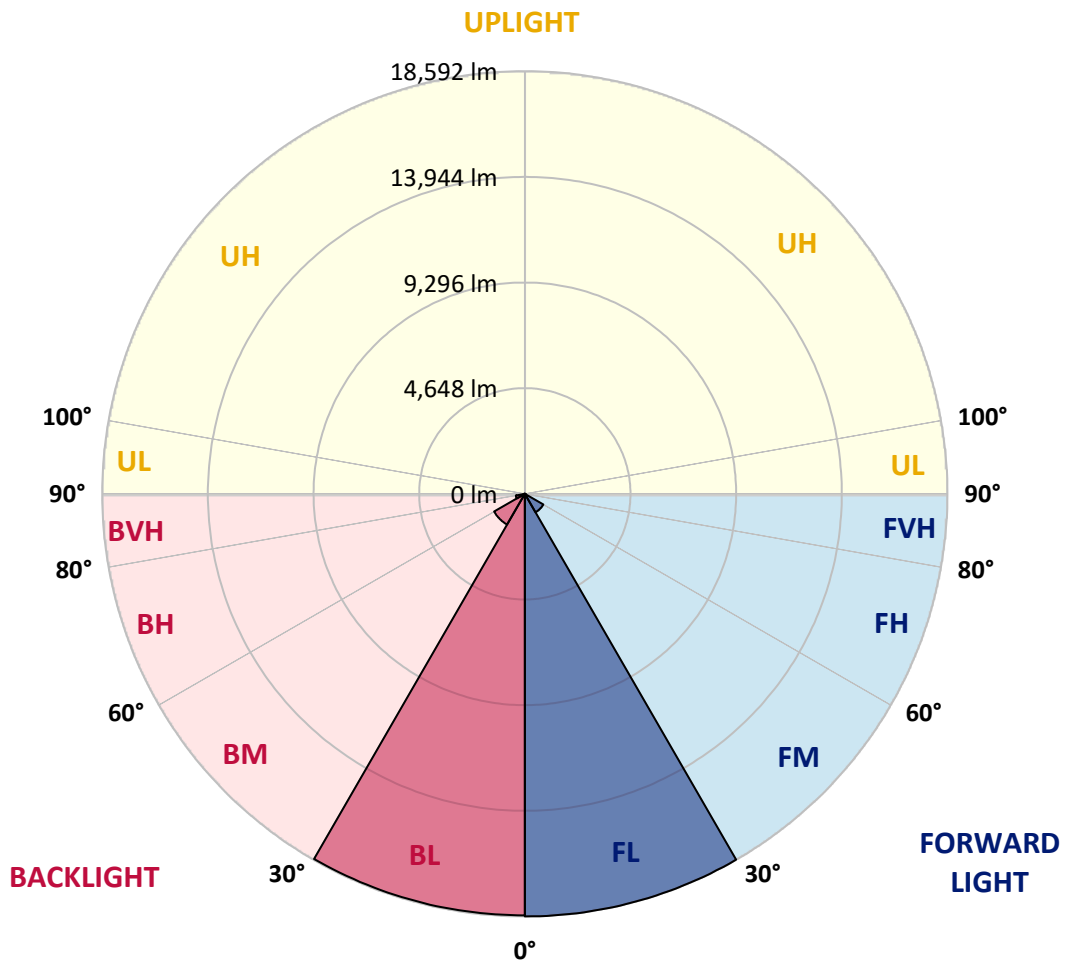


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	18592.4	46.3			
FM (30°-60°)	938.2	2.3			
FH (60°-80°)	44.2	0.1			G0/660
FVH (80°-90°)	8.7	0.0			G0/10
BL (0°-30°)	18548.3	46.2	B5		
BM (30°-60°)	1561.1	3.9	B2/2500		
BH (60°-80°)	403.1	1.0	B1/500		G0/660
BVH (80°-90°)	49.0	0.1			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°	398769.2	398769.2	398769.2	398769.2	398769.2	398769.2	398769.2	398769.2	398769.2	398769.2
1°	393994.5	392792.1	389687.7	391895.8	393837.1	393273.1	393233.7	393023.8	392730.9	395030.8
2°	378245.1	377466.8	372875.7	374769.0	377528.0	375516.7	376775.9	375669.7	375691.6	378437.4
3°	351695.7	352119.8	344796.0	348237.1	352071.7	347196.5	348709.3	351551.4	348573.8	347677.5
4°	317188.6	313507.0	309506.2	313004.2	313996.7	311159.0	313948.6	317429.0	313292.7	313476.4
5°	277793.0	275073.4	270338.1	272498.0	270036.4	270932.7	275112.8	276546.9	273661.1	270027.6
6°	237286.9	235354.3	229434.1	232547.2	231672.7	231165.5	236443.1	232070.6	233644.7	231445.4
7°	197375.5	193763.9	190856.2	193838.2	194030.6	192504.6	199356.2	198560.4	195696.5	195031.9
8°	163528.6	159925.7	157464.0	159685.2	161136.8	158740.8	161963.2	164079.5	161840.8	162041.9
9°	131894.1	131260.1	127836.5	130739.8	132318.2	129751.6	133319.5	134084.7	131990.3	133009.1
10°	108296.1	107557.2	104824.4	106000.6	108615.3	105554.6	108978.2	109227.5	107557.2	108033.8
12.5°	66924.3	66627.0	66552.6	66723.1	66688.2	67230.4	68104.8	67107.9	66976.8	65328.3
15°	43256.4	43698.0	43243.2	44117.7	44244.5	44756.1	44222.7	43418.1	41883.4	41122.6
17.5°	26995.3	27559.4	28337.7	29618.8	30899.9	31048.6	30340.2	29395.8	28652.5	27839.2
20°	15530.8	15806.3	15688.2	17223.0	20537.3	21438.0	20524.1	19531.6	18635.3	17813.2
22.5°	9649.9	9549.4	9733.0	10249.0	11328.9	14114.2	13366.5	12374.0	11722.5	11044.7
25°	5915.9	6025.2	5955.2	6239.4	6724.8	7905.3	8075.9	7647.4	7315.1	6965.3
27.5°	3808.4	3808.4	3839.0	3996.4	4328.7	4289.3	5198.8	4866.5	4687.2	4516.7
30°	2645.3	2654.1	2654.1	2745.9	2820.2	2689.0	2925.1	3353.6	3270.6	3139.4
32.5°	1963.2	1989.5	2011.3	2059.4	1998.2	1858.3	1915.1	2413.6	2365.5	2317.4
35°	1495.4	1517.2	1569.7	1595.9	1508.5	1421.0	1368.6	1775.2	1797.1	1783.9
37.5°	1088.7	1101.9	1198.0	1298.6	1198.0	1119.3	1088.7	1364.2	1469.1	1456.0
40°	835.1	839.5	857.0	970.7	970.7	909.5	918.2	1018.8	1202.4	1202.4
42.5°	717.1	717.1	734.6	717.1	721.4	787.0	808.9	822.0	1018.8	1018.8
45°	620.9	620.9	629.6	585.9	542.2	677.7	695.2	699.6	857.0	878.9
47.5°	520.3	520.3	537.8	481.0	459.1	537.8	585.9	599.0	738.9	756.4
50°	384.8	389.1	441.6	393.5	406.6	415.4	507.2	515.9	625.3	664.6
52.5°	258.0	258.0	266.7	306.1	354.2	341.0	411.0	441.6	498.5	550.9
55°	209.9	209.9	205.5	196.8	262.3	284.2	301.7	367.3	406.6	472.2
57.5°	144.3	153.0	139.9	161.8	170.5	214.2	227.4	288.6	310.4	397.9
60°	17.5	21.9	30.6	118.1	113.7	144.3	170.5	227.4	253.6	306.1
62.5°	4.4	4.4	8.7	21.9	78.7	96.2	135.5	157.4	183.6	236.1
65°	0.0	0.0	4.4	8.7	17.5	52.5	70.0	91.8	131.2	166.2
67.5°	0.0	0.0	4.4	8.7	8.7	21.9	35.0	56.8	70.0	122.4
70°	0.0	0.0	4.4	8.7	8.7	17.5	21.9	26.2	48.1	65.6
72.5°	0.0	0.0	4.4	8.7	13.1	17.5	21.9	21.9	21.9	43.7
75°	0.0	0.0	4.4	8.7	13.1	17.5	21.9	21.9	17.5	17.5
77.5°	0.0	0.0	4.4	8.7	17.5	21.9	26.2	21.9	13.1	13.1
80°	0.0	0.0	4.4	13.1	21.9	30.6	35.0	26.2	13.1	8.7
82.5°	0.0	0.0	8.7	17.5	26.2	35.0	48.1	39.4	17.5	8.7
85°	0.0	0.0	4.4	13.1	26.2	35.0	70.0	48.1	21.9	4.4
87.5°	0.0	0.0	0.0	4.4	4.4	8.7	26.2	17.5	8.7	4.4
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°
398769.2	0°	398769.2	398769.2	398769.2	398769.2	398769.2	398769.2	398769.2	398769.2
392376.7	1°	395118.2	395393.7	394493.0	395887.8	395398.1	392529.8	391580.9	390457.2
376824.0	2°	375669.7	377073.2	377143.2	378691.0	378669.2	375324.3	374288.0	376198.8
349496.4	3°	348438.3	350073.5	348600.0	351350.3	350523.9	346466.3	345412.5	347581.3
314928.0	4°	313987.9	313677.5	313170.3	311605.0	313533.2	310765.5	308679.8	311622.5
274846.0	5°	274295.1	273604.3	272616.1	272152.6	273586.8	271815.9	267526.6	271824.7
235424.3	6°	235712.9	232739.6	232595.3	232337.4	232481.6	227523.3	227820.6	231021.3
192745.1	7°	194782.6	195329.2	194214.2	196002.5	194638.3	191280.3	189986.1	193357.2
162925.2	8°	161788.3	161097.5	160244.9	162916.4	160550.9	158347.2	156838.8	159501.6
133175.2	9°	132926.0	131732.3	130866.6	130731.0	131098.3	126962.0	127801.5	129817.2
108296.1	10°	108335.5	106376.6	106853.2	106980.0	106577.8	103866.9	103893.1	104588.3
66421.5	12.5°	66185.3	65223.4	65463.9	65595.1	66412.7	65459.5	64112.8	63142.1
41879.1	15°	41599.2	40908.4	42320.7	43269.5	43077.1	42228.8	41594.8	40716.0
27839.2	17.5°	27581.2	28486.3	28490.7	29356.4	29443.9	28595.6	28105.9	27314.5
18106.2	20°	18040.6	18416.6	19199.3	19811.4	20165.6	19518.5	18932.6	18390.4
11289.6	22.5°	11289.6	11945.5	12435.2	13230.9	13554.5	13082.3	12666.9	12225.3
7048.3	25°	6930.3	7398.1	7804.8	8495.6	8937.2	8709.9	8329.5	8019.0
4551.7	27.5°	4621.6	4818.4	5019.5	5496.1	5955.2	5828.4	5675.4	5487.4
3209.4	30°	3257.5	3274.9	3489.2	3755.9	4062.0	4140.7	4070.7	3974.5
2356.7	32.5°	2400.5	2470.4	2571.0	2737.1	2942.6	3130.7	3095.7	3052.0
1801.4	35°	1853.9	1958.8	2041.9	2168.7	2278.0	2457.3	2487.9	2474.8
1482.3	37.5°	1512.9	1604.7	1687.8	1762.1	1853.9	1976.3	2072.5	2076.9
1224.3	40°	1254.9	1338.0	1447.3	1504.1	1569.7	1661.5	1779.6	1788.3
1036.3	42.5°	1058.1	1136.8	1246.1	1316.1	1364.2	1451.6	1569.7	1587.2
887.6	45°	909.5	957.6	1071.2	1154.3	1202.4	1259.3	1386.1	1403.5
765.2	47.5°	791.4	839.5	909.5	1027.5	1071.2	1123.7	1224.3	1254.9
677.7	50°	695.2	743.3	804.5	909.5	975.0	1018.8	1101.9	1145.6
590.3	52.5°	616.5	664.6	730.2	813.3	887.6	927.0	1005.7	1062.5
481.0	55°	515.9	599.0	647.1	721.4	822.0	857.0	918.2	992.5
419.8	57.5°	450.4	520.3	590.3	651.5	752.1	795.8	857.0	927.0
332.3	60°	380.4	446.0	529.1	581.5	677.7	734.6	800.2	865.7
253.6	62.5°	301.7	389.1	446.0	520.3	612.1	686.5	738.9	804.5
196.8	65°	223.0	319.2	384.8	463.5	550.9	629.6	673.4	743.3
139.9	67.5°	161.8	249.2	327.9	402.3	485.3	564.0	607.8	669.0
87.4	70°	126.8	183.6	271.1	336.7	424.1	489.7	537.8	577.2
56.8	72.5°	74.3	139.9	218.6	293.0	371.7	415.4	450.4	485.3
26.2	75°	48.1	109.3	179.3	244.9	301.7	341.0	371.7	402.3
13.1	77.5°	30.6	78.7	144.3	205.5	231.7	279.8	306.1	323.6
8.7	80°	17.5	61.2	126.8	166.2	188.0	218.6	244.9	266.7
8.7	82.5°	13.1	52.5	104.9	139.9	139.9	174.9	188.0	188.0
4.4	85°	8.7	43.7	83.1	131.2	104.9	131.2	122.4	122.4
4.4	87.5°	8.7	30.6	39.4	56.8	48.1	56.8	56.8	65.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
398769.2
386006.1
368105.4
337948.8
300971.3
260500.1
221743.0
184188.2
151897.9
123520.9
99857.4
62551.9
40265.6
27117.8
18202.4
11989.2
7839.8
5378.1
3908.9
3017.0
2431.1
2046.3
1775.2
1574.1
1399.2
1259.3
1149.9
1062.5
996.9
931.3
883.2
835.1
756.4
673.4
590.3
494.1
402.3
314.8
240.5
174.9
118.1
65.6
0.0

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