

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: P637287

Luminaire Tested: **IFLD-L-SA8D-722-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637287
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-722-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39605.2 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

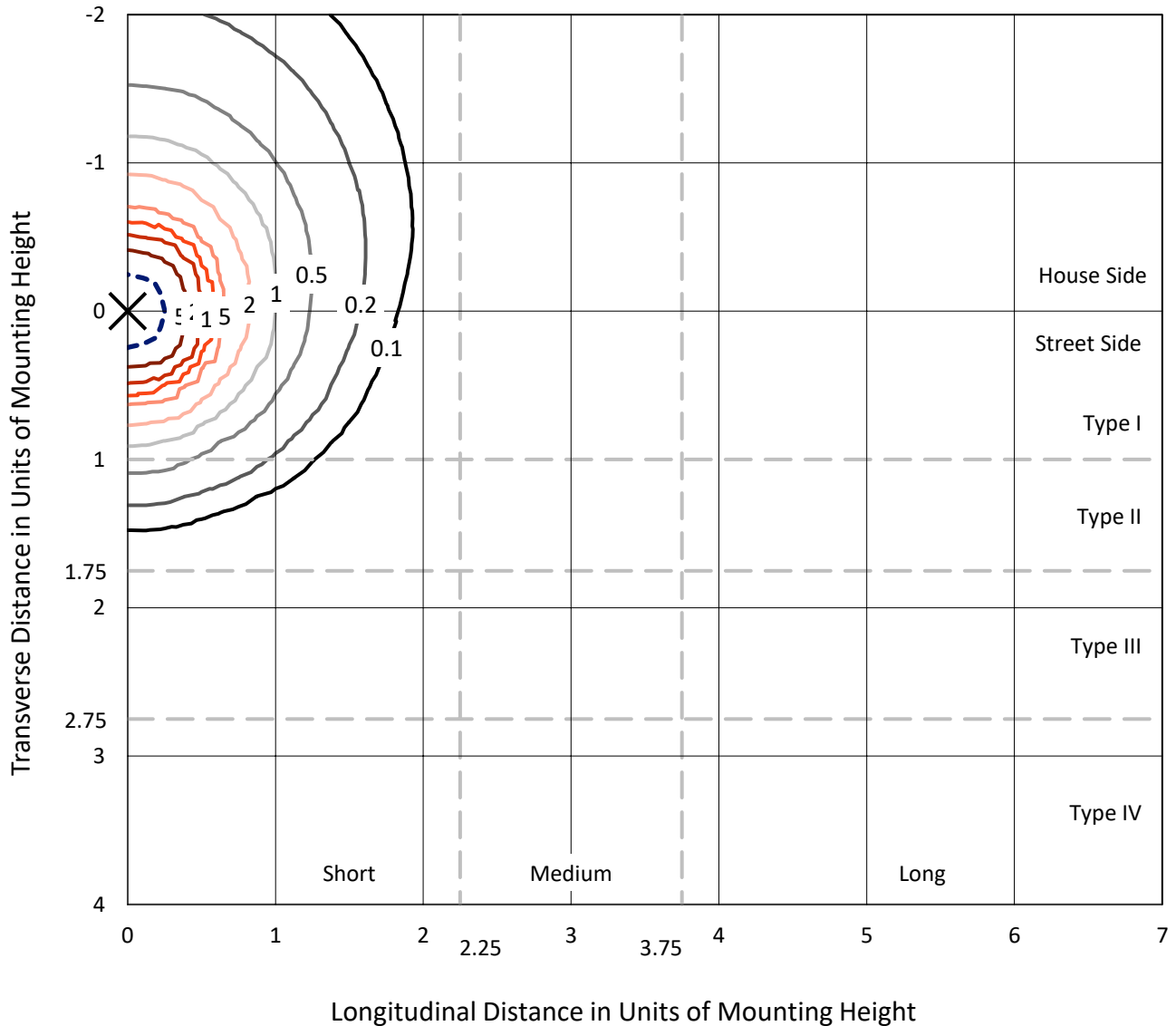
Input Watts (W): 488.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

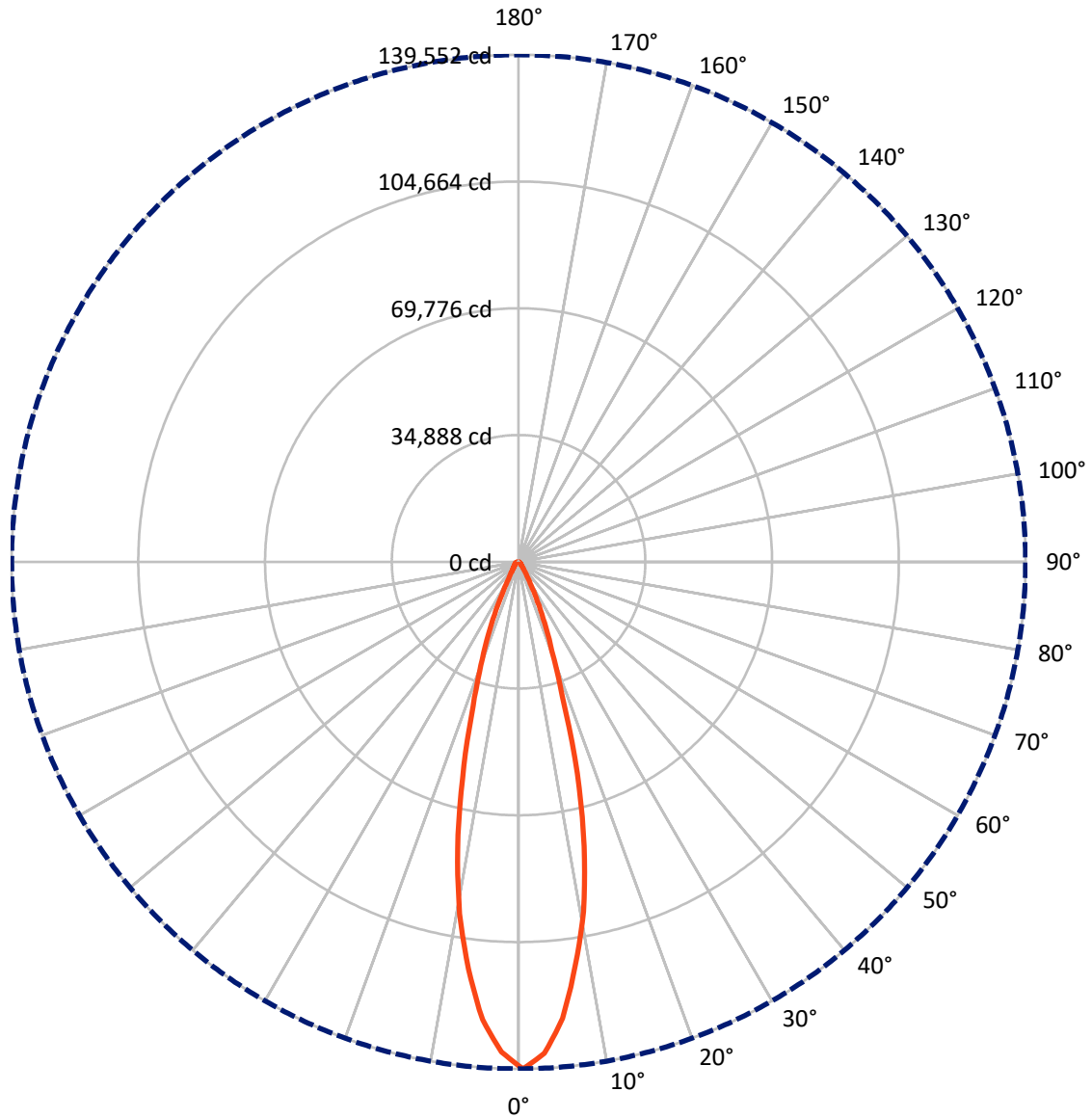
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 348.9 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	20882.6	0.0	20882.6
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	18722.7	0.0	18722.7
	% Fixture	47.3	0.0	47.3
Total	Lumens	39605.2	0.0	39605.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11263.1	28.4
10°-20°	17057.8	43.1
20°-30°	7198.5	18.2
30°-40°	1877.4	4.7
40°-50°	949.6	2.4
50°-60°	620.7	1.6
60°-70°	371.9	0.9
70°-80°	195.6	0.5
80°-90°	70.7	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°	39605.2	100.0
0°-180°	39605.2	100.0



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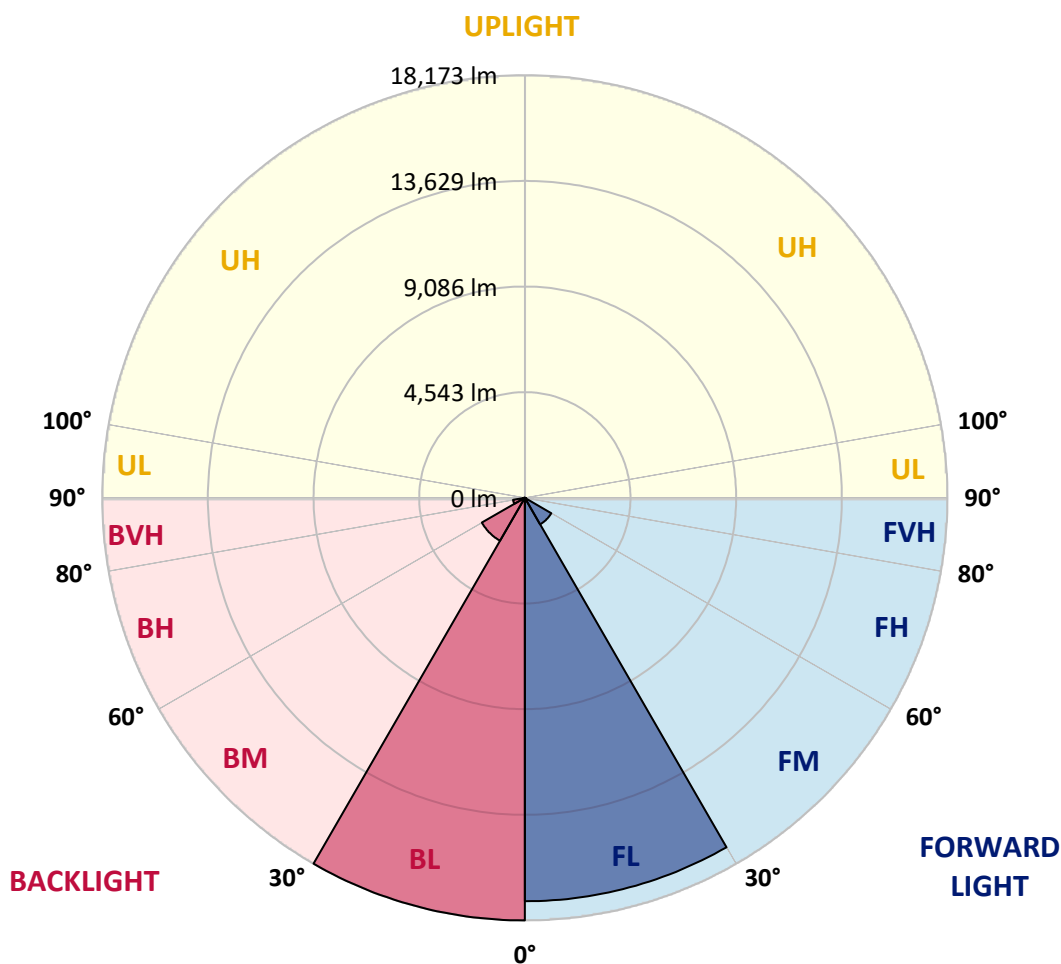
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	17346.8	43.8			
FM (30°-60°)	1313.7	3.3			
FH (60°-80°)	53.5	0.1			G0/660
FVH (80°-90°)	8.6	0.0			G0/10
BL (0°-30°)	18172.6	45.9	B5		
BM (30°-60°)	2134.0	5.4	B2/2500		
BH (60°-80°)	513.9	1.3	B2/1000		G0/660
BVH (80°-90°)	62.1	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°	139551.8	139551.8	139551.8	139551.8	139551.8	139551.8	139551.8	139551.8	139551.8	139551.8
2.5°	135486.6	135562.2	135282.0	135886.9	135415.4	136678.6	136051.4	137029.9	136700.8	137247.9
5°	126235.3	126110.8	126030.7	126969.2	126697.9	128054.4	127187.1	126902.5	127783.1	127623.0
7.5°	112265.0	112594.1	112407.3	112652.0	112789.8	114337.7	114826.9	114444.4	114457.7	114680.1
10°	97943.3	97458.5	96769.1	97227.3	98196.9	98872.9	98601.6	99162.0	99037.5	99566.8
12.5°	80321.5	80704.0	80317.0	79907.8	81602.4	81415.6	81887.1	82193.9	81424.5	83136.9
15°	60502.4	60702.5	61174.0	61142.9	62446.1	62708.5	62646.2	62970.9	62370.4	62655.1
17.5°	38868.7	39544.7	40812.3	42956.1	45366.8	45647.0	45575.8	45309.0	45019.9	44699.6
20°	26108.1	26037.0	26495.1	27122.2	32112.6	33433.5	33393.5	32557.3	31347.6	31116.3
22.5°	18289.0	18422.5	18360.2	18982.9	20014.8	23657.4	23208.2	22358.7	21962.9	21704.9
25°	12031.1	11982.2	12293.5	12480.3	13365.4	13810.2	15384.7	15068.9	14459.6	14526.3
27.5°	7334.3	7396.6	7512.2	7672.3	8299.5	8157.1	9055.6	9175.7	8980.0	8770.9
30°	4501.1	4545.6	4639.0	4754.6	4972.6	4816.9	5066.0	5497.4	5426.2	5279.4
32.5°	3055.6	3060.0	3126.8	3171.2	3144.5	2997.8	3077.8	3487.0	3495.9	3482.6
35°	2197.2	2197.2	2259.4	2295.0	2219.4	2099.3	2112.7	2366.2	2477.4	2499.6
37.5°	1516.7	1521.1	1627.9	1734.6	1650.1	1619.0	1565.6	1734.6	1912.5	1939.2
40°	1152.0	1147.5	1200.9	1280.9	1289.8	1232.0	1249.8	1356.6	1538.9	1561.2
42.5°	934.0	938.5	965.2	956.3	960.7	1036.3	1063.0	1111.9	1280.9	1321.0
45°	787.2	791.7	805.0	760.6	742.8	858.4	894.0	920.7	1063.0	1111.9
47.5°	649.4	658.3	671.6	622.7	613.8	689.4	751.7	778.4	902.9	956.3
50°	467.0	475.9	524.8	498.1	524.8	542.6	627.1	667.2	751.7	822.8
52.5°	338.0	346.9	360.3	364.7	431.4	440.3	502.6	564.9	604.9	684.9
55°	266.9	275.8	266.9	258.0	315.8	364.7	387.0	453.7	484.8	578.2
57.5°	151.2	160.1	173.5	200.1	209.0	280.2	302.4	360.3	387.0	475.9
60°	26.7	31.1	48.9	120.1	146.8	177.9	226.8	275.8	311.3	373.6
62.5°	4.4	4.4	8.9	26.7	84.5	124.5	164.6	195.7	226.8	284.7
65°	0.0	0.0	4.4	8.9	22.2	71.2	89.0	115.6	155.7	204.6
67.5°	0.0	0.0	4.4	8.9	13.3	26.7	40.0	71.2	89.0	137.9
70°	0.0	0.0	4.4	8.9	13.3	17.8	22.2	31.1	53.4	84.5
72.5°	0.0	0.0	4.4	8.9	13.3	17.8	22.2	26.7	26.7	53.4
75°	0.0	0.0	4.4	8.9	13.3	22.2	26.7	26.7	22.2	22.2
77.5°	0.0	0.0	4.4	8.9	17.8	26.7	31.1	26.7	17.8	17.8
80°	0.0	0.0	8.9	13.3	22.2	31.1	40.0	31.1	17.8	8.9
82.5°	0.0	0.0	8.9	17.8	22.2	35.6	48.9	40.0	17.8	8.9
85°	0.0	0.0	4.4	13.3	26.7	35.6	48.9	35.6	17.8	4.4
87.5°	0.0	0.0	4.4	4.4	8.9	13.3	26.7	22.2	8.9	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°
<i>139551.8</i>	0°	<i>139551.8</i>	<i>139551.8</i>	<i>139551.8</i>	<i>139551.8</i>	<i>139551.8</i>	<i>139551.8</i>	<i>139551.8</i>	<i>139551.8</i>	<i>139551.8</i>
136211.6	2.5°	136994.4	137706.0	137852.8	137657.1	137941.7	137430.2	137038.8	136024.8	135415.4
127574.1	5°	128396.9	128290.2	129032.9	129277.6	129246.4	128855.0	128308.0	127694.2	127098.2
114248.7	7.5°	114960.3	115098.2	115774.3	116205.7	115987.8	115498.5	115120.5	114657.9	114257.6
99758.0	10°	100669.8	99722.4	100563.1	100563.1	101145.7	99762.5	99891.4	98726.1	98779.5
83105.7	12.5°	83390.4	83732.9	83870.7	84266.6	83586.1	82852.2	81953.8	81775.9	81219.9
62112.5	15°	63006.5	63985.0	63144.3	64581.0	63887.1	63122.1	62984.2	61605.4	62041.3
45051.0	17.5°	44828.6	45909.4	46247.4	47070.3	46438.7	45985.0	45411.3	44993.2	44962.0
31538.8	20°	31787.9	32873.1	33122.2	34109.6	34038.4	33896.1	33411.3	32882.0	32308.3
21469.2	22.5°	21793.9	22678.9	23506.2	24836.1	24813.9	24395.8	24346.8	23599.6	23613.0
14504.0	25°	14655.3	15300.2	15495.9	16856.9	17008.1	16963.6	16710.1	16016.3	16278.7
8859.9	27.5°	8868.8	9433.6	10096.3	10576.7	11030.4	10959.2	10705.7	10318.7	10149.7
5323.9	30°	5466.3	5719.8	5964.4	6542.6	6813.9	6956.2	6836.2	6475.9	6502.6
3504.8	32.5°	3580.4	3793.9	3971.8	4336.5	4478.9	4741.3	4692.3	4616.7	4527.8
2521.9	35°	2610.8	2766.5	2886.6	3055.6	3237.9	3460.3	3495.9	3464.8	3429.2
1948.1	37.5°	1992.6	2152.7	2290.6	2361.7	2504.1	2677.5	2775.4	2770.9	2744.2
1587.8	40°	1619.0	1739.1	1863.6	1957.0	2054.8	2183.8	2303.9	2317.3	2317.3
1334.3	42.5°	1352.1	1454.4	1578.9	1676.8	1748.0	1868.0	1992.6	2001.5	1992.6
1129.7	45°	1156.4	1245.4	1365.5	1481.1	1538.9	1627.9	1748.0	1774.6	1756.9
969.6	47.5°	1005.2	1085.2	1187.5	1312.1	1374.3	1454.4	1565.6	1596.7	1592.3
836.2	50°	862.9	956.3	1058.6	1160.9	1240.9	1316.5	1423.3	1458.9	1445.5
711.6	52.5°	760.6	845.1	934.0	1045.2	1138.6	1205.3	1289.8	1352.1	1334.3
600.4	55°	636.0	738.3	831.7	925.1	1040.8	1111.9	1192.0	1267.6	1249.8
507.0	57.5°	551.5	636.0	742.8	827.3	942.9	1027.4	1107.5	1187.5	1183.1
413.6	60°	462.6	551.5	653.8	742.8	849.5	942.9	1023.0	1111.9	1120.8
311.3	62.5°	364.7	471.5	560.4	662.7	769.5	871.8	942.9	1031.9	1045.2
235.7	65°	275.8	387.0	484.8	582.7	689.4	800.6	862.9	938.5	951.8
173.5	67.5°	204.6	298.0	413.6	502.6	613.8	720.5	778.4	840.6	862.9
106.7	70°	155.7	226.8	346.9	431.4	547.1	631.6	693.8	747.2	765.0
71.2	72.5°	97.8	177.9	280.2	369.2	471.5	547.1	591.5	622.7	649.4
40.0	75°	66.7	137.9	226.8	315.8	391.4	449.2	489.2	515.9	538.2
17.8	77.5°	40.0	106.7	186.8	262.4	311.3	355.8	395.8	413.6	427.0
13.3	80°	22.2	80.1	155.7	213.5	244.6	275.8	306.9	329.1	338.0
8.9	82.5°	13.3	62.3	124.5	164.6	177.9	209.0	240.2	253.5	253.5
4.4	85°	8.9	44.5	84.5	120.1	129.0	151.2	160.1	169.0	177.9
4.4	87.5°	8.9	26.7	53.4	66.7	71.2	80.1	84.5	93.4	102.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
139551.8
134966.2
126431.0
112901.0
98259.1
80712.9
61605.4
44134.8
32059.2
23355.0
15865.0
10002.9
6386.9
4496.6
3415.9
2730.9
2290.6
1983.7
1756.9
1583.4
1436.6
1329.9
1258.7
1187.5
1125.3
1054.1
965.2
871.8
773.9
644.9
533.7
422.5
329.1
249.1
173.5
97.8
0.0

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