

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: P637282

Luminaire Tested: **IFLD-L-SA7D-722-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637282
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-722-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34654.5 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

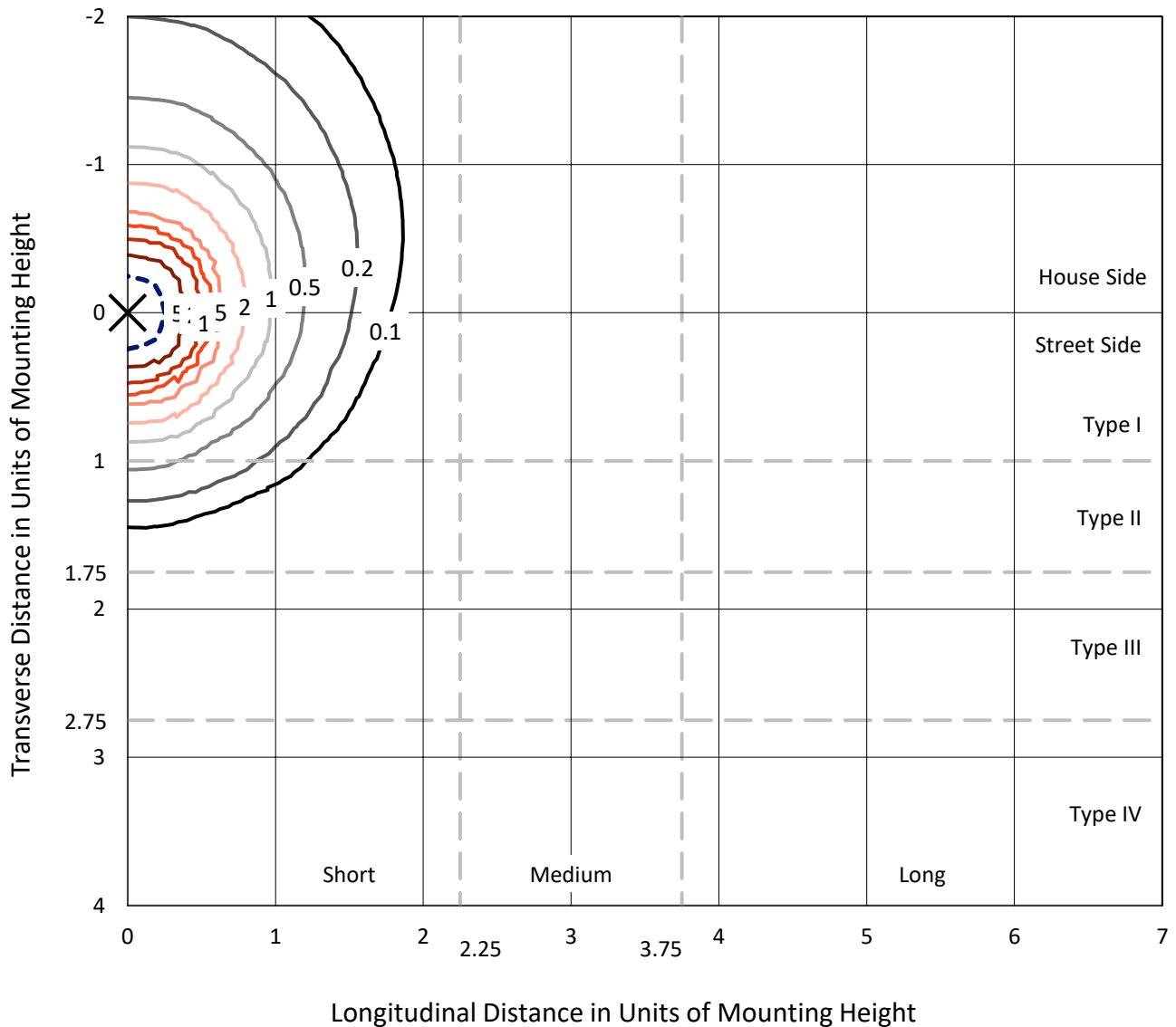
Input Watts (W): 422.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

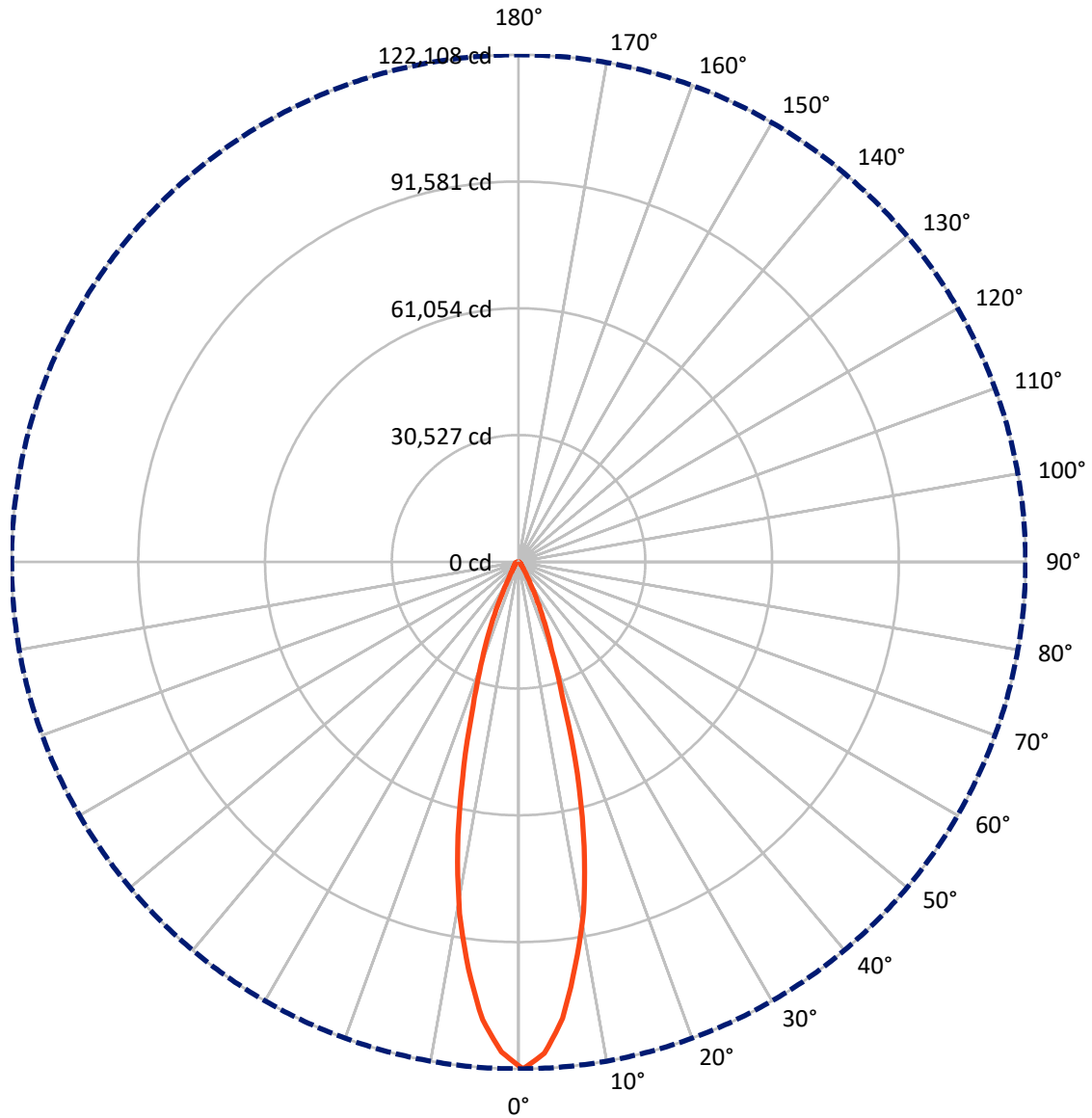
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 305.3 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	18272.2	0.0	18272.2
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	16382.3	0.0	16382.3
	% Fixture	47.3	0.0	47.3
Total	Lumens	34654.5	0.0	34654.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9855.2	28.4
10°-20°	14925.6	43.1
20°-30°	6298.7	18.2
30°-40°	1642.7	4.7
40°-50°	830.9	2.4
50°-60°	543.1	1.6
60°-70°	325.4	0.9
70°-80°	171.2	0.5
80°-90°	61.8	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°	34654.5	100.0
0°-180°	34654.5	100.0

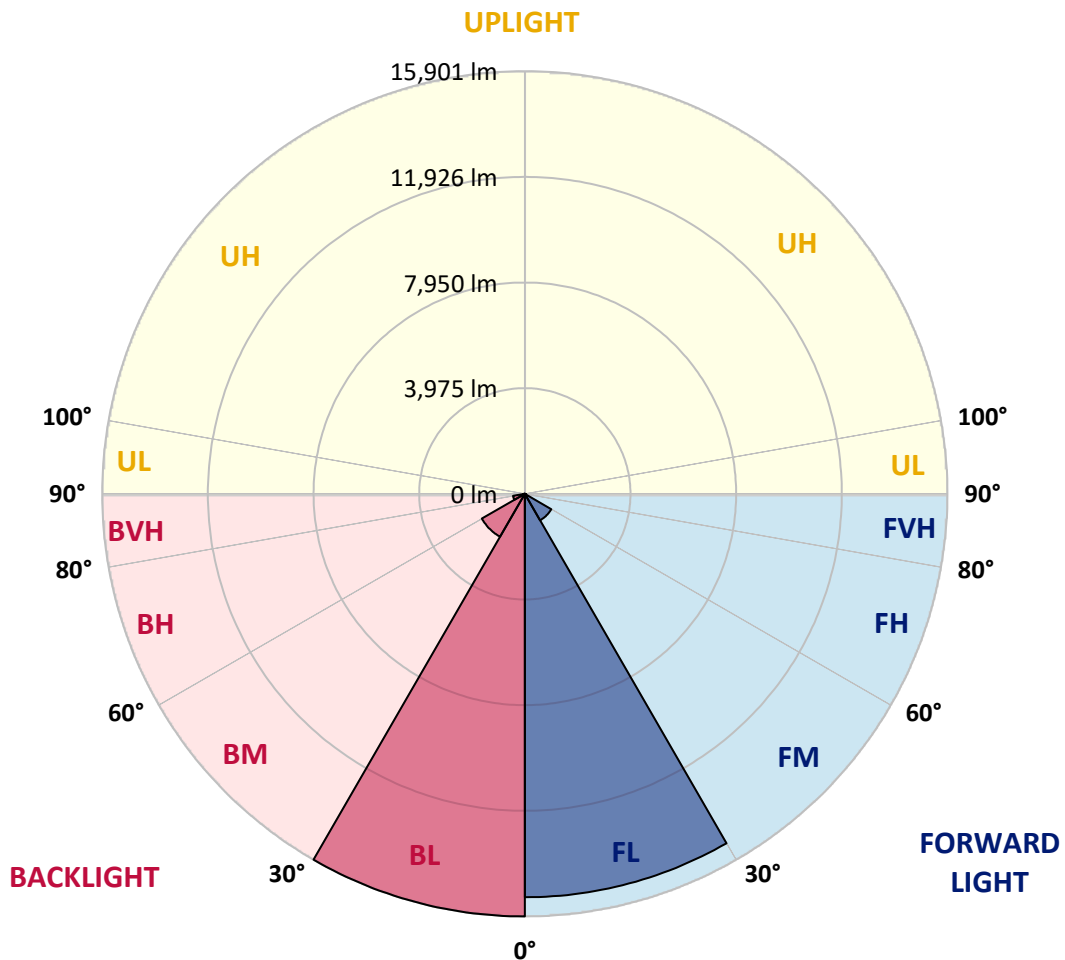


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	15178.5	43.8			
FM (30°-60°)	1149.5	3.3			
FH (60°-80°)	46.9	0.1			G0/660
FVH (80°-90°)	7.5	0.0			G0/10
BL (0°-30°)	15901.0	45.9	B5		
BM (30°-60°)	1867.2	5.4	B2/2500		
BH (60°-80°)	449.7	1.3	B1/500		G0/660
BVH (80°-90°)	54.3	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°	122107.5	122107.5	122107.5	122107.5	122107.5	122107.5	122107.5	122107.5	122107.5	122107.5
2.5°	118550.5	118616.6	118371.4	118900.7	118488.2	119593.5	119044.7	119900.9	119612.9	120091.6
5°	110455.6	110346.7	110276.6	111097.8	110860.4	112047.4	111288.5	111039.4	111810.0	111669.9
7.5°	98231.6	98519.6	98356.2	98570.2	98690.9	100045.2	100473.3	100138.6	100150.3	100344.9
10°	85700.2	85276.0	84672.8	85073.6	85922.0	86513.6	86276.2	86766.5	86657.6	87120.7
12.5°	70281.1	70615.8	70277.2	69919.2	71401.9	71238.5	71651.0	71919.5	71246.3	72744.6
15°	52939.5	53114.6	53527.1	53499.9	54640.2	54869.8	54815.3	55099.4	54574.0	54823.1
17.5°	34010.0	34601.5	35710.7	37586.5	39695.8	39941.0	39878.8	39645.2	39392.3	39112.1
20°	22844.6	22782.3	23183.2	23731.9	28098.4	29254.3	29219.3	28487.6	27429.0	27226.7
22.5°	16002.9	16119.6	16065.1	16610.0	17512.9	20700.2	20307.1	19563.8	19217.5	18991.7
25°	10527.2	10484.4	10756.8	10920.2	11694.7	12083.9	13461.6	13185.2	12652.1	12710.5
27.5°	6417.5	6472.0	6573.2	6713.3	7262.0	7137.5	7923.6	8028.7	7857.4	7674.5
30°	3938.5	3977.4	4059.1	4160.3	4351.0	4214.8	4432.7	4810.2	4747.9	4619.5
32.5°	2673.6	2677.5	2735.9	2774.8	2751.5	2623.0	2693.1	3051.1	3058.9	3047.2
35°	1922.5	1922.5	1977.0	2008.1	1942.0	1836.9	1848.6	2070.4	2167.7	2187.2
37.5°	1327.1	1331.0	1424.4	1517.8	1443.8	1416.6	1369.9	1517.8	1673.5	1696.8
40°	1008.0	1004.1	1050.8	1120.8	1128.6	1078.0	1093.6	1187.0	1346.5	1366.0
42.5°	817.3	821.2	844.5	836.7	840.6	906.8	930.1	972.9	1120.8	1155.8
45°	688.8	692.7	704.4	665.5	649.9	751.1	782.2	805.6	930.1	972.9
47.5°	568.2	576.0	587.7	544.8	537.1	603.2	657.7	681.1	790.0	836.7
50°	408.6	416.4	459.2	435.9	459.2	474.8	548.7	583.8	657.7	720.0
52.5°	295.8	303.6	315.2	319.1	377.5	385.3	439.8	494.3	529.3	599.3
55°	233.5	241.3	233.5	225.7	276.3	319.1	338.6	397.0	424.2	505.9
57.5°	132.3	140.1	151.8	175.1	182.9	245.2	264.6	315.2	338.6	416.4
60°	23.4	27.2	42.8	105.1	128.4	155.7	198.5	241.3	272.4	326.9
62.5°	3.9	3.9	7.8	23.4	73.9	109.0	144.0	171.2	198.5	249.1
65°	0.0	0.0	3.9	7.8	19.5	62.3	77.8	101.2	136.2	179.0
67.5°	0.0	0.0	3.9	7.8	11.7	23.4	35.0	62.3	77.8	120.6
70°	0.0	0.0	3.9	7.8	11.7	15.6	19.5	27.2	46.7	73.9
72.5°	0.0	0.0	3.9	7.8	11.7	15.6	19.5	23.4	23.4	46.7
75°	0.0	0.0	3.9	7.8	11.7	19.5	23.4	23.4	19.5	19.5
77.5°	0.0	0.0	3.9	7.8	15.6	23.4	27.2	23.4	15.6	15.6
80°	0.0	0.0	7.8	11.7	19.5	27.2	35.0	27.2	15.6	7.8
82.5°	0.0	0.0	7.8	15.6	19.5	31.1	42.8	35.0	15.6	7.8
85°	0.0	0.0	3.9	11.7	23.4	31.1	42.8	31.1	15.6	3.9
87.5°	0.0	0.0	3.9	3.9	7.8	11.7	23.4	19.5	7.8	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°
122107.5	0°	122107.5	122107.5	122107.5	122107.5	122107.5	122107.5	122107.5	122107.5	122107.5
119184.8	2.5°	119869.8	120492.4	120620.9	120449.6	120698.7	120251.2	119908.7	119021.4	118488.2
111627.0	5°	112347.0	112253.6	112903.5	113117.6	113090.3	112747.9	112269.2	111732.1	111210.6
99967.4	7.5°	100590.0	100710.7	101302.2	101679.7	101489.0	101060.9	100730.1	100325.4	99975.1
87288.0	10°	88085.9	87256.9	87992.4	87992.4	88502.3	87291.9	87404.8	86385.2	86431.9
72717.3	12.5°	72966.4	73266.1	73386.7	73733.1	73137.6	72495.5	71709.4	71553.7	71067.2
54348.3	15°	55130.5	55986.7	55251.2	56508.2	55901.1	55231.7	55111.1	53904.6	54286.0
39419.5	17.5°	39224.9	40170.6	40466.4	41186.4	40633.8	40236.8	39734.8	39368.9	39341.7
27596.4	20°	27814.3	28763.9	28981.9	29845.8	29783.6	29659.0	29234.8	28771.7	28269.7
18785.5	22.5°	19069.6	19844.0	20567.9	21731.5	21712.1	21346.2	21303.4	20649.6	20661.3
12691.0	25°	12823.3	13387.6	13558.9	14749.7	14882.0	14843.1	14621.3	14014.2	14243.8
7752.4	27.5°	7760.1	8254.4	8834.3	9254.6	9651.5	9589.3	9367.4	9028.9	8881.0
4658.4	30°	4783.0	5004.8	5218.8	5724.8	5962.2	6086.7	5981.6	5666.4	5689.7
3066.7	32.5°	3132.9	3319.7	3475.3	3794.5	3919.0	4148.6	4105.8	4039.6	3961.8
2206.6	35°	2284.5	2420.7	2525.7	2673.6	2833.2	3027.8	3058.9	3031.7	3000.5
1704.6	37.5°	1743.5	1883.6	2004.3	2066.5	2191.1	2342.8	2428.5	2424.6	2401.2
1389.4	40°	1416.6	1521.7	1630.6	1712.4	1798.0	1910.8	2015.9	2027.6	2027.6
1167.5	42.5°	1183.1	1272.6	1381.6	1467.2	1529.5	1634.5	1743.5	1751.3	1743.5
988.5	45°	1011.9	1089.7	1194.8	1296.0	1346.5	1424.4	1529.5	1552.8	1537.2
848.4	47.5°	879.5	949.6	1039.1	1148.1	1202.6	1272.6	1369.9	1397.1	1393.2
731.6	50°	755.0	836.7	926.2	1015.7	1085.8	1152.0	1245.4	1276.5	1264.8
622.7	52.5°	665.5	739.4	817.3	914.6	996.3	1054.7	1128.6	1183.1	1167.5
525.4	55°	556.5	646.0	727.8	809.5	910.7	972.9	1043.0	1109.1	1093.6
443.7	57.5°	482.6	556.5	649.9	723.9	825.1	899.0	969.0	1039.1	1035.2
361.9	60°	404.7	482.6	572.1	649.9	743.3	825.1	895.1	972.9	980.7
272.4	62.5°	319.1	412.5	490.4	579.9	673.3	762.8	825.1	902.9	914.6
206.3	65°	241.3	338.6	424.2	509.8	603.2	700.5	755.0	821.2	832.8
151.8	67.5°	179.0	260.7	361.9	439.8	537.1	630.5	681.1	735.5	755.0
93.4	70°	136.2	198.5	303.6	377.5	478.7	552.6	607.1	653.8	669.4
62.3	72.5°	85.6	155.7	245.2	323.0	412.5	478.7	517.6	544.8	568.2
35.0	75°	58.4	120.6	198.5	276.3	342.5	393.1	428.1	451.4	470.9
15.6	77.5°	35.0	93.4	163.5	229.6	272.4	311.3	346.4	361.9	373.6
11.7	80°	19.5	70.1	136.2	186.8	214.0	241.3	268.5	288.0	295.8
7.8	82.5°	11.7	54.5	109.0	144.0	155.7	182.9	210.2	221.8	221.8
3.9	85°	7.8	38.9	73.9	105.1	112.9	132.3	140.1	147.9	155.7
3.9	87.5°	7.8	23.4	46.7	58.4	62.3	70.1	73.9	81.7	89.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
122107.5
118095.1
110626.9
98788.2
85976.5
70623.6
53904.6
38617.8
28051.7
20435.6
13881.9
8752.5
5588.6
3934.6
2988.9
2389.5
2004.3
1735.7
1537.2
1385.5
1257.0
1163.6
1101.4
1039.1
984.6
922.3
844.5
762.8
677.2
564.3
467.0
369.7
288.0
217.9
151.8
85.6
0.0

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