

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: P637430

Luminaire Tested: **IFLD-L-SA8B-750-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637430
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-750-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40152 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

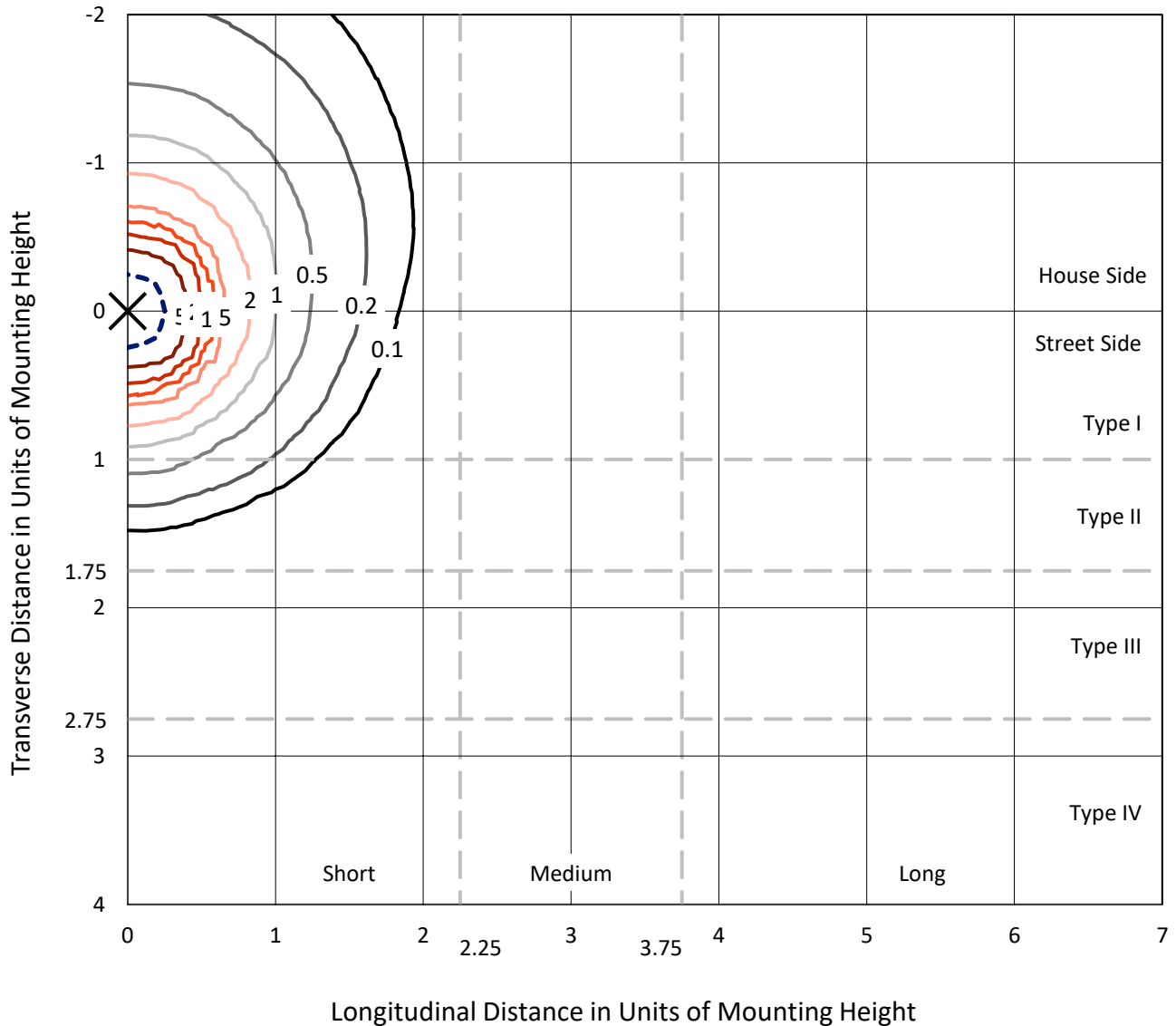
Input Watts (W): 320
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

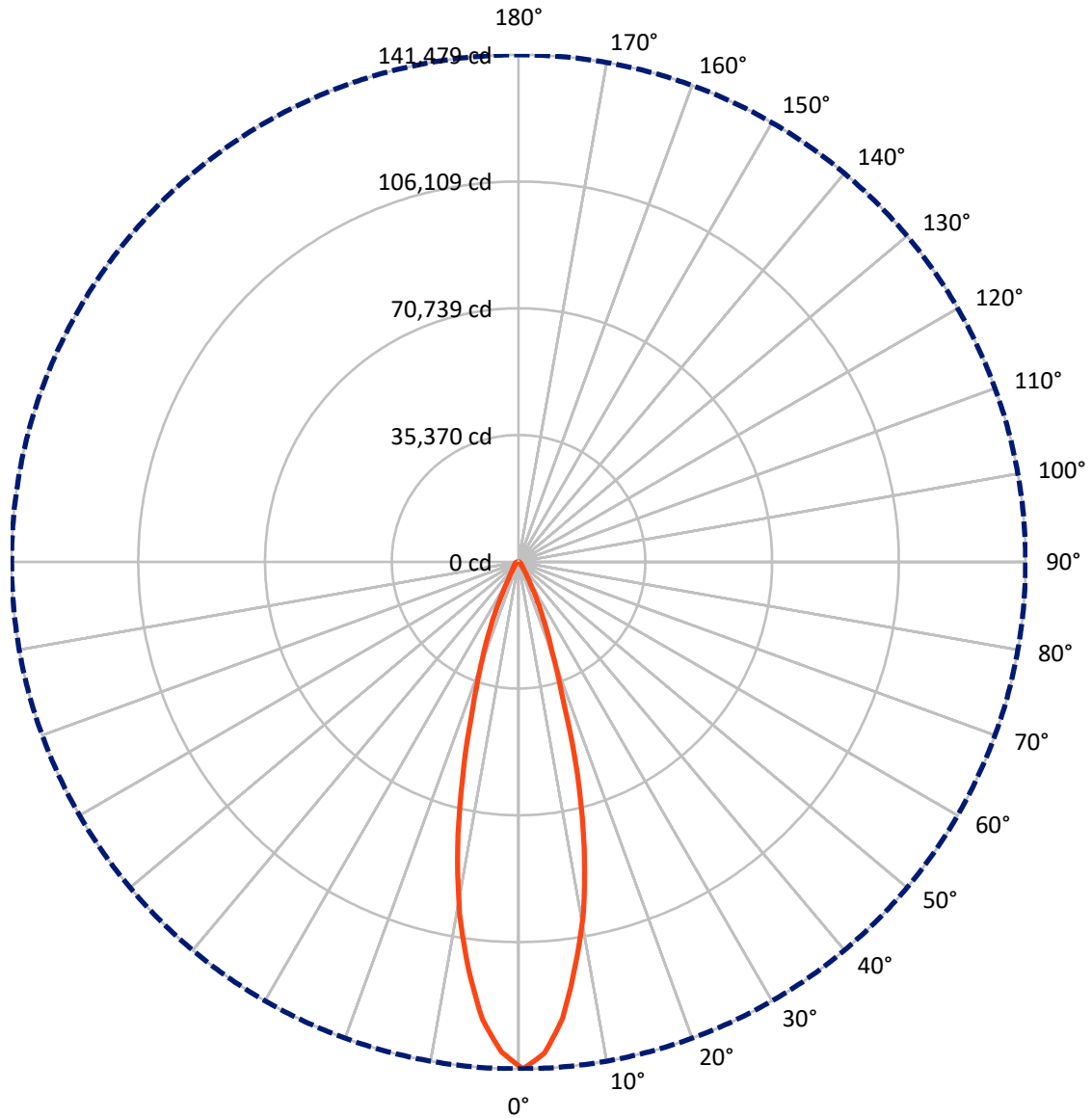
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 353.7 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	21170.9	0.0	21170.9
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	18981.2	0.0	18981.2
	% Fixture	47.3	0.0	47.3
Total	Lumens	40152.0	0.0	40152.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11418.6	28.4
10°-20°	17293.4	43.1
20°-30°	7297.9	18.2
30°-40°	1903.3	4.7
40°-50°	962.7	2.4
50°-60°	629.2	1.6
60°-70°	377.0	0.9
70°-80°	198.3	0.5
80°-90°	71.6	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°	40152.0	100.0
0°-180°	40152.0	100.0

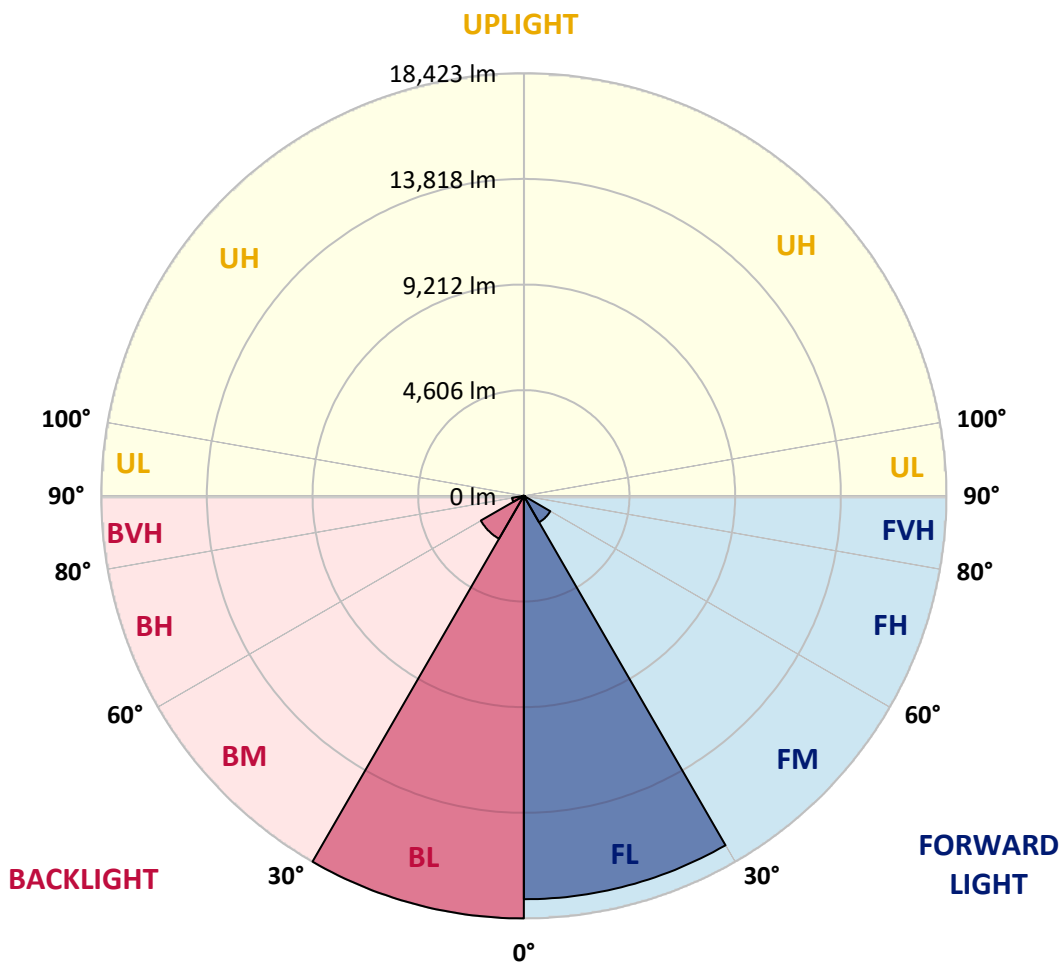


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	17586.3	43.8			
FM (30°-60°)	1331.9	3.3			
FH (60°-80°)	54.3	0.1			G0/660
FVH (80°-90°)	8.7	0.0			G0/10
BL (0°-30°)	18423.5	45.9	B5		
BM (30°-60°)	2163.4	5.4	B2/2500		
BH (60°-80°)	521.0	1.3	B2/1000		G0/660
BVH (80°-90°)	62.9	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°	141478.6	141478.6	141478.6	141478.6	141478.6	141478.6	141478.6	141478.6	141478.6	141478.6
2.5°	137357.2	137433.9	137149.8	137763.1	137285.1	138565.7	137929.9	138921.9	138588.2	139142.9
5°	127978.2	127852.0	127770.8	128722.2	128447.2	129822.5	128943.2	128654.6	129547.4	129385.1
7.5°	113815.1	114148.7	113959.3	114207.3	114347.1	115916.3	116412.3	116024.5	116038.1	116263.5
10°	99295.6	98804.1	98105.2	98569.7	99552.7	100238.0	99963.0	100531.1	100404.9	100941.5
12.5°	81430.5	81818.2	81425.9	81011.1	82729.1	82539.7	83017.7	83328.8	82548.7	84284.7
15°	61337.7	61540.7	62018.6	61987.1	63308.2	63574.3	63511.2	63840.3	63231.6	63520.2
17.5°	39405.3	40090.7	41375.8	43549.2	45993.2	46277.2	46205.1	45934.5	45641.5	45316.8
20°	26468.6	26396.5	26860.9	27496.7	32555.9	33895.2	33854.6	33006.9	31780.4	31545.9
22.5°	18541.6	18676.8	18613.7	19245.0	20291.1	23984.1	23528.7	22667.4	22266.1	22004.6
25°	12197.2	12147.6	12463.2	12652.6	13549.9	14000.9	15597.1	15276.9	14659.2	14726.8
27.5°	7435.6	7498.7	7615.9	7778.3	8414.0	8269.8	9180.6	9302.3	9103.9	8892.0
30°	4563.2	4608.3	4703.0	4820.3	5041.2	4883.4	5135.9	5573.3	5501.1	5352.3
32.5°	3097.8	3102.3	3169.9	3215.0	3188.0	3039.2	3120.3	3535.2	3544.2	3530.7
35°	2227.5	2227.5	2290.6	2326.7	2250.1	2128.3	2141.8	2398.9	2511.6	2534.1
37.5°	1537.6	1542.1	1650.3	1758.6	1672.9	1641.3	1587.2	1758.6	1938.9	1966.0
40°	1167.9	1163.4	1217.5	1298.6	1307.6	1249.0	1267.1	1375.3	1560.2	1582.7
42.5°	946.9	951.4	978.5	969.5	974.0	1050.6	1077.7	1127.3	1298.6	1339.2
45°	798.1	802.6	816.2	771.1	753.0	870.3	906.3	933.4	1077.7	1127.3
47.5°	658.3	667.4	680.9	631.3	622.3	698.9	762.0	789.1	915.4	969.5
50°	473.5	482.5	532.1	505.0	532.1	550.1	635.8	676.4	762.0	834.2
52.5°	342.7	351.7	365.2	369.7	437.4	446.4	509.5	572.7	613.2	694.4
55°	270.5	279.6	270.5	261.5	320.1	369.7	392.3	459.9	491.5	586.2
57.5°	153.3	162.3	175.9	202.9	211.9	284.1	306.6	365.2	392.3	482.5
60°	27.1	31.6	49.6	121.7	148.8	180.4	230.0	279.6	315.6	378.8
62.5°	4.5	4.5	9.0	27.1	85.7	126.3	166.8	198.4	230.0	288.6
65°	0.0	0.0	4.5	9.0	22.5	72.1	90.2	117.2	157.8	207.4
67.5°	0.0	0.0	4.5	9.0	13.5	27.1	40.6	72.1	90.2	139.8
70°	0.0	0.0	4.5	9.0	13.5	18.0	22.5	31.6	54.1	85.7
72.5°	0.0	0.0	4.5	9.0	13.5	18.0	22.5	27.1	27.1	54.1
75°	0.0	0.0	4.5	9.0	13.5	22.5	27.1	27.1	22.5	22.5
77.5°	0.0	0.0	4.5	9.0	18.0	27.1	31.6	27.1	18.0	18.0
80°	0.0	0.0	9.0	13.5	22.5	31.6	40.6	31.6	18.0	9.0
82.5°	0.0	0.0	9.0	18.0	22.5	36.1	49.6	40.6	18.0	9.0
85°	0.0	0.0	4.5	13.5	27.1	36.1	49.6	36.1	18.0	4.5
87.5°	0.0	0.0	4.5	4.5	9.0	13.5	27.1	22.5	9.0	4.5
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°
141478.6	0°	141478.6	141478.6	141478.6	141478.6	141478.6	141478.6	141478.6	141478.6	141478.6
138092.2	2.5°	138885.8	139607.3	139756.1	139557.7	139846.3	139327.7	138930.9	137902.8	137285.1
129335.5	5°	130169.7	130061.5	130814.5	131062.5	131030.9	130634.1	130079.5	129457.2	128853.0
115826.1	7.5°	116547.6	116687.4	117372.8	117810.1	117589.2	117093.2	116709.9	116241.0	115835.1
101135.4	10°	102059.7	101099.3	101951.5	101951.5	102542.2	101139.9	101270.6	100089.2	100143.4
84253.2	12.5°	84541.8	84889.0	85028.7	85430.1	84740.2	83996.1	83085.3	82904.9	82341.3
62970.1	15°	63876.4	64868.4	64016.2	65472.6	64769.2	63993.6	63853.8	62456.0	62897.9
45673.0	17.5°	45447.6	46543.3	46886.0	47720.2	47079.9	46619.9	46038.3	45614.4	45582.8
31974.3	20°	32226.8	33327.0	33579.5	34580.5	34508.4	34364.1	33872.6	33336.0	32754.3
21765.6	22.5°	22094.8	22992.1	23830.8	25179.0	25156.5	24732.6	24683.0	23925.5	23939.0
14704.3	25°	14857.6	15511.4	15709.8	17089.6	17242.9	17197.8	16940.8	16237.4	16503.4
8982.2	27.5°	8991.2	9563.9	10235.7	10722.7	11182.7	11110.5	10853.5	10461.2	10289.8
5397.4	30°	5541.7	5798.7	6046.7	6632.9	6908.0	7052.3	6930.5	6565.3	6592.4
3553.2	32.5°	3629.9	3846.3	4026.7	4396.4	4540.7	4806.7	4757.1	4680.5	4590.3
2556.7	35°	2646.9	2804.7	2926.4	3097.8	3282.6	3508.1	3544.2	3512.6	3476.5
1975.0	37.5°	2020.1	2182.4	2322.2	2394.4	2538.6	2714.5	2813.7	2809.2	2782.1
1609.8	40°	1641.3	1763.1	1889.3	1984.0	2083.2	2214.0	2335.7	2349.3	2349.3
1352.7	42.5°	1370.8	1474.5	1600.7	1699.9	1772.1	1893.8	2020.1	2029.1	2020.1
1145.3	45°	1172.4	1262.6	1384.3	1501.5	1560.2	1650.3	1772.1	1799.1	1781.1
983.0	47.5°	1019.1	1100.2	1203.9	1330.2	1393.3	1474.5	1587.2	1618.8	1614.3
847.7	50°	874.8	969.5	1073.2	1176.9	1258.0	1334.7	1442.9	1479.0	1465.5
721.5	52.5°	771.1	856.7	946.9	1059.6	1154.3	1222.0	1307.6	1370.8	1352.7
608.7	55°	644.8	748.5	843.2	937.9	1055.1	1127.3	1208.4	1285.1	1267.1
514.0	57.5°	559.1	644.8	753.0	838.7	955.9	1041.6	1122.8	1203.9	1199.4
419.3	60°	468.9	559.1	662.8	753.0	861.2	955.9	1037.1	1127.3	1136.3
315.6	62.5°	369.7	478.0	568.2	671.9	780.1	883.8	955.9	1046.1	1059.6
239.0	65°	279.6	392.3	491.5	590.7	698.9	811.6	874.8	951.4	965.0
175.9	67.5°	207.4	302.1	419.3	509.5	622.3	730.5	789.1	852.2	874.8
108.2	70°	157.8	230.0	351.7	437.4	554.6	640.3	703.4	757.5	775.6
72.1	72.5°	99.2	180.4	284.1	374.3	478.0	554.6	599.7	631.3	658.3
40.6	75°	67.6	139.8	230.0	320.1	396.8	455.4	496.0	523.1	545.6
18.0	77.5°	40.6	108.2	189.4	266.0	315.6	360.7	401.3	419.3	432.9
13.5	80°	22.5	81.2	157.8	216.4	248.0	279.6	311.1	333.7	342.7
9.0	82.5°	13.5	63.1	126.3	166.8	180.4	211.9	243.5	257.0	257.0
4.5	85°	9.0	45.1	85.7	121.7	130.8	153.3	162.3	171.3	180.4
4.5	87.5°	9.0	27.1	54.1	67.6	72.1	81.2	85.7	94.7	103.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
141478.6
136829.7
128176.6
114459.9
99615.8
81827.3
62456.0
44744.1
32501.8
23677.5
16084.1
10141.0
6475.1
4558.7
3463.0
2768.6
2322.2
2011.1
1781.1
1605.3
1456.5
1348.2
1276.1
1203.9
1140.8
1068.7
978.5
883.8
784.6
653.8
541.1
428.4
333.7
252.5
175.9
99.2
0.0

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