

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: P637427

Luminaire Tested: **IFLD-L-SA7D-750-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637427
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-750-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48123.9 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

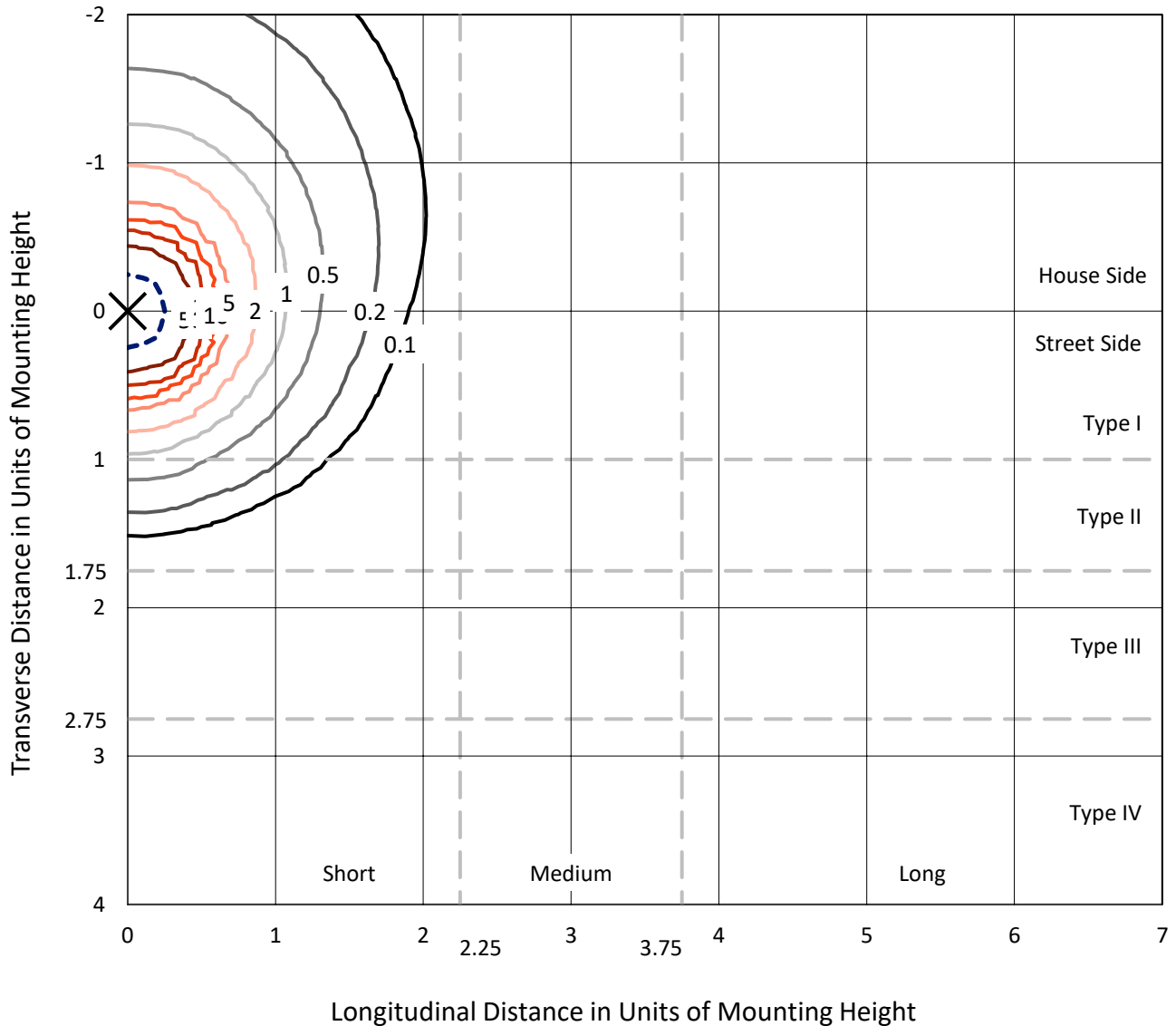
Input Watts (W): 422.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

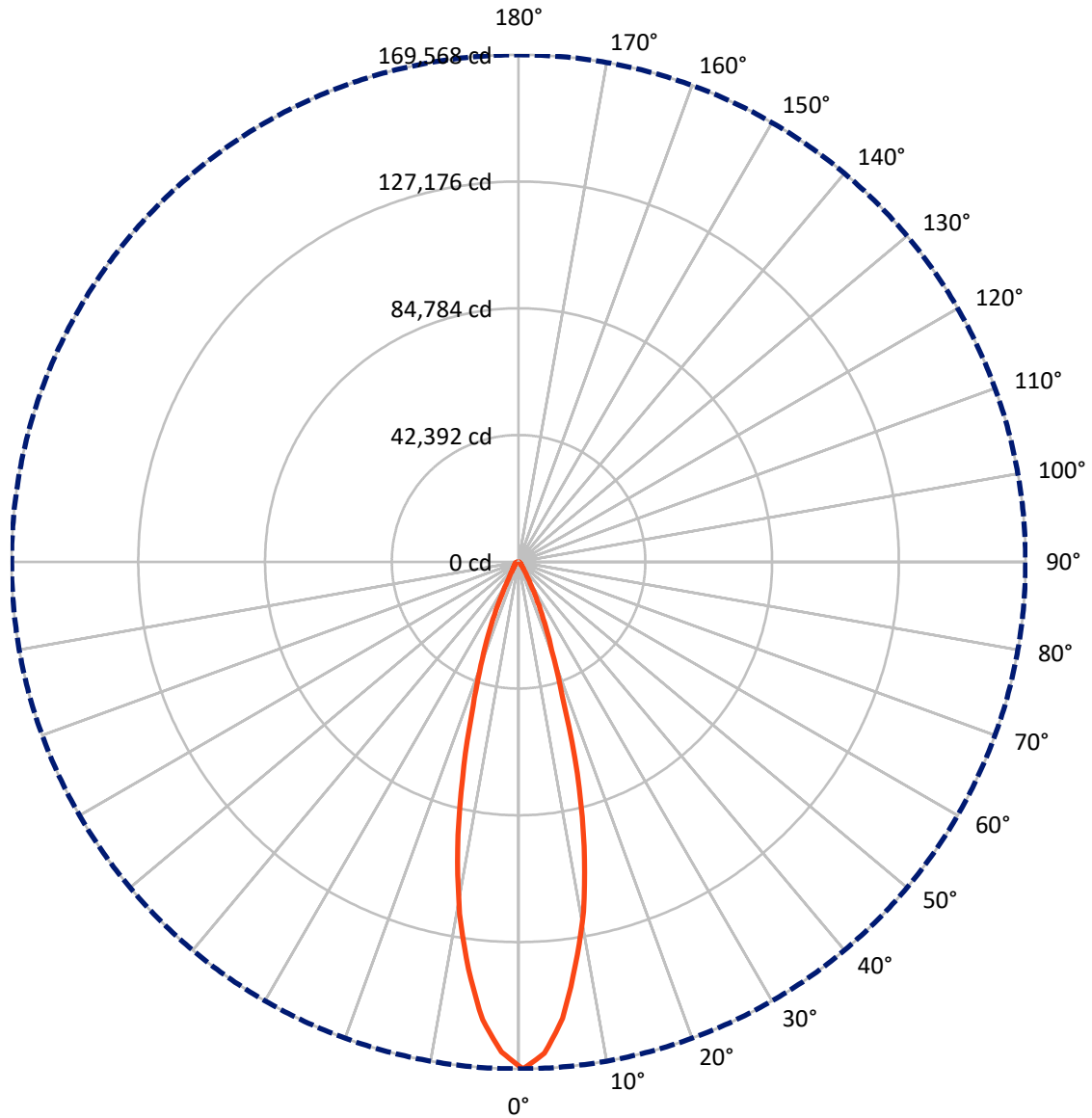
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 423.9 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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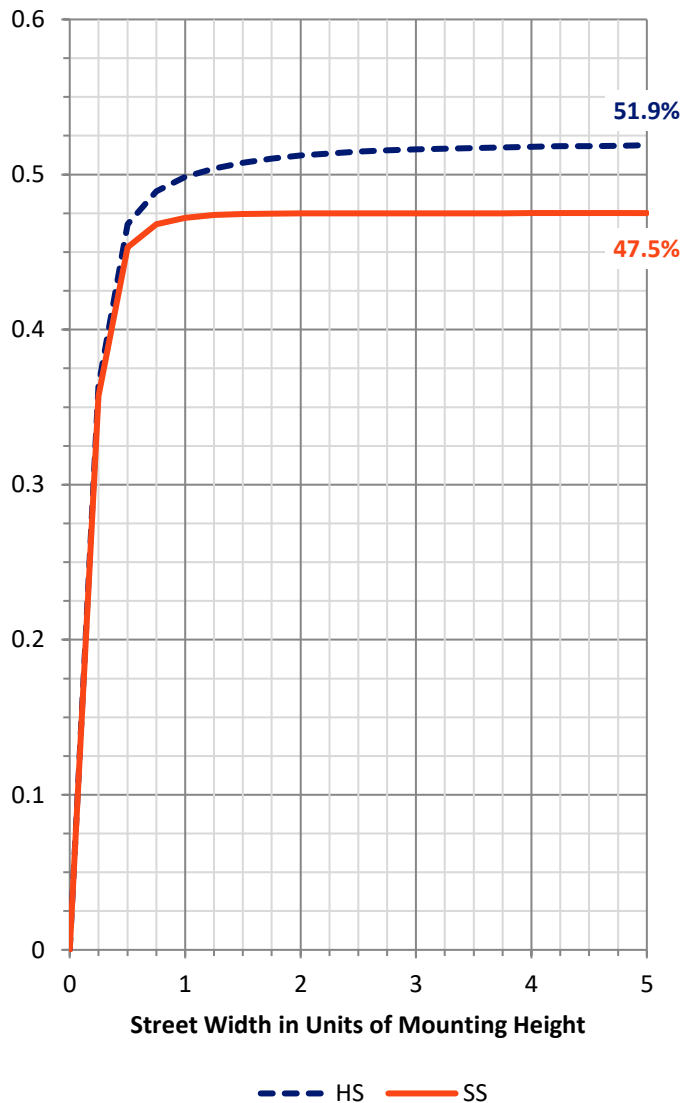
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25374.2	0.0	25374.2
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	22749.7	0.0	22749.7
	% Fixture	47.3	0.0	47.3
Total	Lumens	48123.9	0.0	48123.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13685.7	28.4
10°-20°	20726.8	43.1
20°-30°	8746.8	18.2
30°-40°	2281.2	4.7
40°-50°	1153.8	2.4
50°-60°	754.2	1.6
60°-70°	451.8	0.9
70°-80°	237.7	0.5
80°-90°	85.9	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°	48123.9	100.0
0°-180°	48123.9	100.0

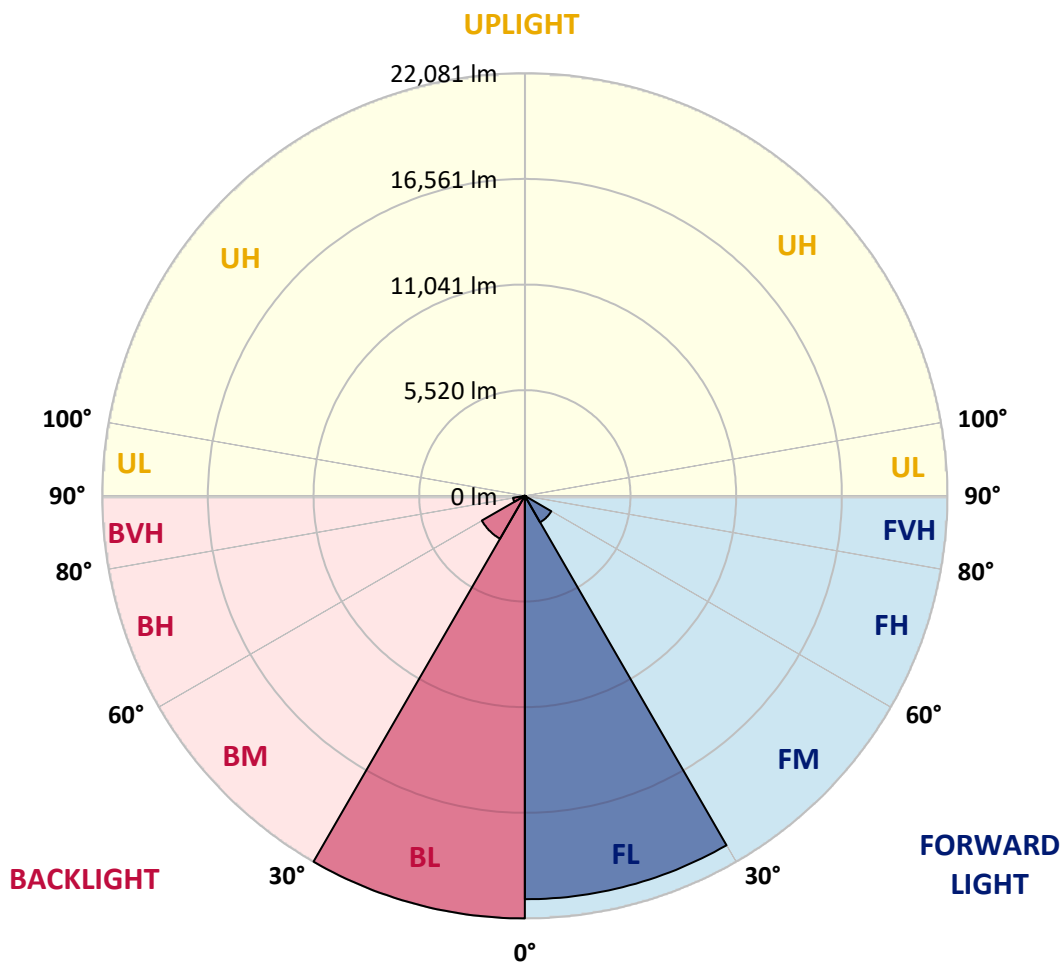


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	21078.0	43.8			
FM (30°-60°)	1596.3	3.3			
FH (60°-80°)	65.0	0.1			G0/660
FVH (80°-90°)	10.4	0.0			G1/100
BL (0°-30°)	22081.3	45.9	B5		
BM (30°-60°)	2593.0	5.4	B3/5000		
BH (60°-80°)	624.5	1.3	B2/1000		G0/660
BVH (80°-90°)	75.4	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°	169568.0	169568.0	169568.0	169568.0	169568.0	169568.0	169568.0	169568.0	169568.0	169568.0
2.5°	164628.4	164720.3	164379.8	165114.8	164541.9	166076.8	165314.7	166503.7	166103.8	166768.5
5°	153387.3	153235.9	153138.7	154279.0	153949.3	155597.7	154543.8	154197.9	155268.0	155073.4
7.5°	136412.1	136812.0	136585.0	136882.3	137049.8	138930.5	139525.0	139060.2	139076.5	139346.7
10°	119010.0	118420.9	117583.2	118139.9	119318.0	120139.5	119809.8	120490.8	120339.4	120982.6
12.5°	97597.8	98062.6	97592.4	97095.2	99154.3	98927.3	99500.1	99873.0	98938.1	101018.8
15°	73515.9	73759.1	74331.9	74294.1	75877.6	76196.4	76120.8	76515.3	75785.7	76131.6
17.5°	47228.9	48050.4	49590.6	52195.6	55124.7	55465.2	55378.7	55054.5	54703.2	54314.1
20°	31723.7	31637.3	32193.9	32955.9	39019.7	40624.8	40576.1	39560.1	38090.1	37809.1
22.5°	22222.8	22385.0	22309.3	23065.9	24319.7	28745.9	28200.1	27167.8	26686.9	26373.4
25°	14618.9	14559.4	14937.7	15164.7	16240.2	16780.6	18693.8	18310.1	17569.7	17650.7
27.5°	8911.8	8987.5	9128.0	9322.6	10084.6	9911.6	11003.3	11149.2	10911.5	10657.4
30°	5469.2	5523.3	5636.8	5777.3	6042.1	5852.9	6155.6	6679.8	6593.4	6415.0
32.5°	3712.8	3718.2	3799.3	3853.3	3820.9	3642.6	3739.8	4237.0	4247.8	4231.6
35°	2669.8	2669.8	2745.4	2788.7	2696.8	2550.9	2567.1	2875.1	3010.2	3037.3
37.5°	1842.9	1848.3	1978.0	2107.7	2005.0	1967.2	1902.3	2107.7	2323.9	2356.3
40°	1399.7	1394.3	1459.2	1556.5	1567.3	1497.0	1518.6	1648.3	1869.9	1896.9
42.5°	1134.9	1140.3	1172.8	1161.9	1167.3	1259.2	1291.6	1351.1	1556.5	1605.1
45°	956.6	962.0	978.2	924.1	902.5	1043.0	1086.3	1118.7	1291.6	1351.1
47.5°	789.0	799.8	816.1	756.6	745.8	837.7	913.3	945.8	1097.1	1161.9
50°	567.5	578.3	637.7	605.3	637.7	659.3	762.0	810.7	913.3	999.8
52.5°	410.7	421.5	437.8	443.2	524.2	535.0	610.7	686.4	735.0	832.3
55°	324.3	335.1	324.3	313.5	383.7	443.2	470.2	551.2	589.1	702.6
57.5°	183.7	194.6	210.8	243.2	254.0	340.5	367.5	437.8	470.2	578.3
60°	32.4	37.8	59.4	145.9	178.3	216.2	275.6	335.1	378.3	454.0
62.5°	5.4	5.4	10.8	32.4	102.7	151.3	200.0	237.8	275.6	345.9
65°	0.0	0.0	5.4	10.8	27.0	86.5	108.1	140.5	189.2	248.6
67.5°	0.0	0.0	5.4	10.8	16.2	32.4	48.6	86.5	108.1	167.5
70°	0.0	0.0	5.4	10.8	16.2	21.6	27.0	37.8	64.9	102.7
72.5°	0.0	0.0	5.4	10.8	16.2	21.6	27.0	32.4	32.4	64.9
75°	0.0	0.0	5.4	10.8	16.2	27.0	32.4	32.4	27.0	27.0
77.5°	0.0	0.0	5.4	10.8	21.6	32.4	37.8	32.4	21.6	21.6
80°	0.0	0.0	10.8	16.2	27.0	37.8	48.6	37.8	21.6	10.8
82.5°	0.0	0.0	10.8	21.6	27.0	43.2	59.4	48.6	21.6	10.8
85°	0.0	0.0	5.4	16.2	32.4	43.2	59.4	43.2	21.6	5.4
87.5°	0.0	0.0	5.4	5.4	10.8	16.2	32.4	27.0	10.8	5.4
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°
169568.0	0°	169568.0	169568.0	169568.0	169568.0	169568.0	169568.0	169568.0	169568.0	169568.0
165509.3	2.5°	166460.5	167325.2	167503.5	167265.7	167611.6	166990.1	166514.5	165282.3	164541.9
155014.0	5°	156013.8	155884.1	156786.6	157083.9	157046.0	156570.4	155905.7	155159.9	154435.7
138822.4	7.5°	139687.1	139854.7	140676.2	141200.4	140935.6	140341.1	139881.7	139319.7	138833.3
121215.0	10°	122322.9	121171.7	122193.2	122193.2	122901.1	121220.4	121377.1	119961.1	120026.0
100980.9	12.5°	101326.8	101743.0	101910.5	102391.5	101564.6	100672.9	99581.2	99365.0	98689.5
75472.2	15°	76558.5	77747.5	76726.1	78471.7	77628.6	76699.0	76531.5	74856.1	75385.8
54741.0	17.5°	54470.8	55784.1	56194.8	57194.6	56427.2	55875.9	55178.8	54670.8	54632.9
38322.5	20°	38625.1	39943.8	40246.5	41446.2	41359.8	41186.8	40597.7	39954.6	39257.5
26087.0	22.5°	26481.5	27557.0	28562.2	30178.1	30151.1	29643.1	29583.6	28675.7	28691.9
17623.7	25°	17807.4	18591.1	18828.9	20482.6	20666.4	20612.3	20304.3	19461.2	19780.1
10765.5	27.5°	10776.3	11462.7	12268.0	12851.6	13402.9	13316.4	13008.4	12538.2	12332.8
6469.0	30°	6642.0	6950.0	7247.3	7949.9	8279.5	8452.5	8306.5	7868.8	7901.2
4258.7	32.5°	4350.5	4609.9	4826.1	5269.3	5442.2	5761.1	5701.6	5609.8	5501.7
3064.3	35°	3172.4	3361.5	3507.4	3712.8	3934.4	4204.6	4247.8	4210.0	4166.8
2367.1	37.5°	2421.2	2615.7	2783.3	2869.7	3042.7	3253.4	3372.3	3366.9	3334.5
1929.4	40°	1967.2	2113.1	2264.4	2377.9	2496.8	2653.6	2799.5	2815.7	2815.7
1621.3	42.5°	1642.9	1767.2	1918.6	2037.5	2123.9	2269.8	2421.2	2432.0	2421.2
1372.7	45°	1405.1	1513.2	1659.1	1799.7	1869.9	1978.0	2123.9	2156.3	2134.7
1178.2	47.5°	1221.4	1318.7	1443.0	1594.3	1670.0	1767.2	1902.3	1940.2	1934.8
1016.0	50°	1048.5	1161.9	1286.2	1410.5	1507.8	1599.7	1729.4	1772.6	1756.4
864.7	52.5°	924.1	1026.8	1134.9	1270.0	1383.5	1464.6	1567.3	1642.9	1621.3
729.6	55°	772.8	897.1	1010.6	1124.1	1264.6	1351.1	1448.4	1540.2	1518.6
616.1	57.5°	670.1	772.8	902.5	1005.2	1145.7	1248.4	1345.7	1443.0	1437.6
502.6	60°	562.1	670.1	794.4	902.5	1032.2	1145.7	1243.0	1351.1	1361.9
378.3	62.5°	443.2	572.9	681.0	805.3	935.0	1059.3	1145.7	1253.8	1270.0
286.4	65°	335.1	470.2	589.1	708.0	837.7	972.8	1048.5	1140.3	1156.5
210.8	67.5°	248.6	362.1	502.6	610.7	745.8	875.5	945.8	1021.4	1048.5
129.7	70°	189.2	275.6	421.5	524.2	664.7	767.4	843.1	907.9	929.6
86.5	72.5°	118.9	216.2	340.5	448.6	572.9	664.7	718.8	756.6	789.0
48.6	75°	81.1	167.5	275.6	383.7	475.6	545.8	594.5	626.9	653.9
21.6	77.5°	48.6	129.7	227.0	318.9	378.3	432.4	481.0	502.6	518.8
16.2	80°	27.0	97.3	189.2	259.4	297.2	335.1	372.9	399.9	410.7
10.8	82.5°	16.2	75.7	151.3	200.0	216.2	254.0	291.8	308.0	308.0
5.4	85°	10.8	54.0	102.7	145.9	156.7	183.7	194.6	205.4	216.2
5.4	87.5°	10.8	32.4	64.9	81.1	86.5	97.3	102.7	113.5	124.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
169568.0
163996.1
153625.1
137184.9
119393.7
98073.4
74856.1
53627.7
38954.8
28378.4
19277.4
12154.5
7760.7
5463.8
4150.6
3318.3
2783.3
2410.4
2134.7
1924.0
1745.6
1615.9
1529.4
1443.0
1367.3
1280.8
1172.8
1059.3
940.4
783.6
648.5
513.4
399.9
302.6
210.8
118.9
0.0

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