

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: P637106

Luminaire Tested: **IFLD-L-SA7B-735-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637106
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-735-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34930.3 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

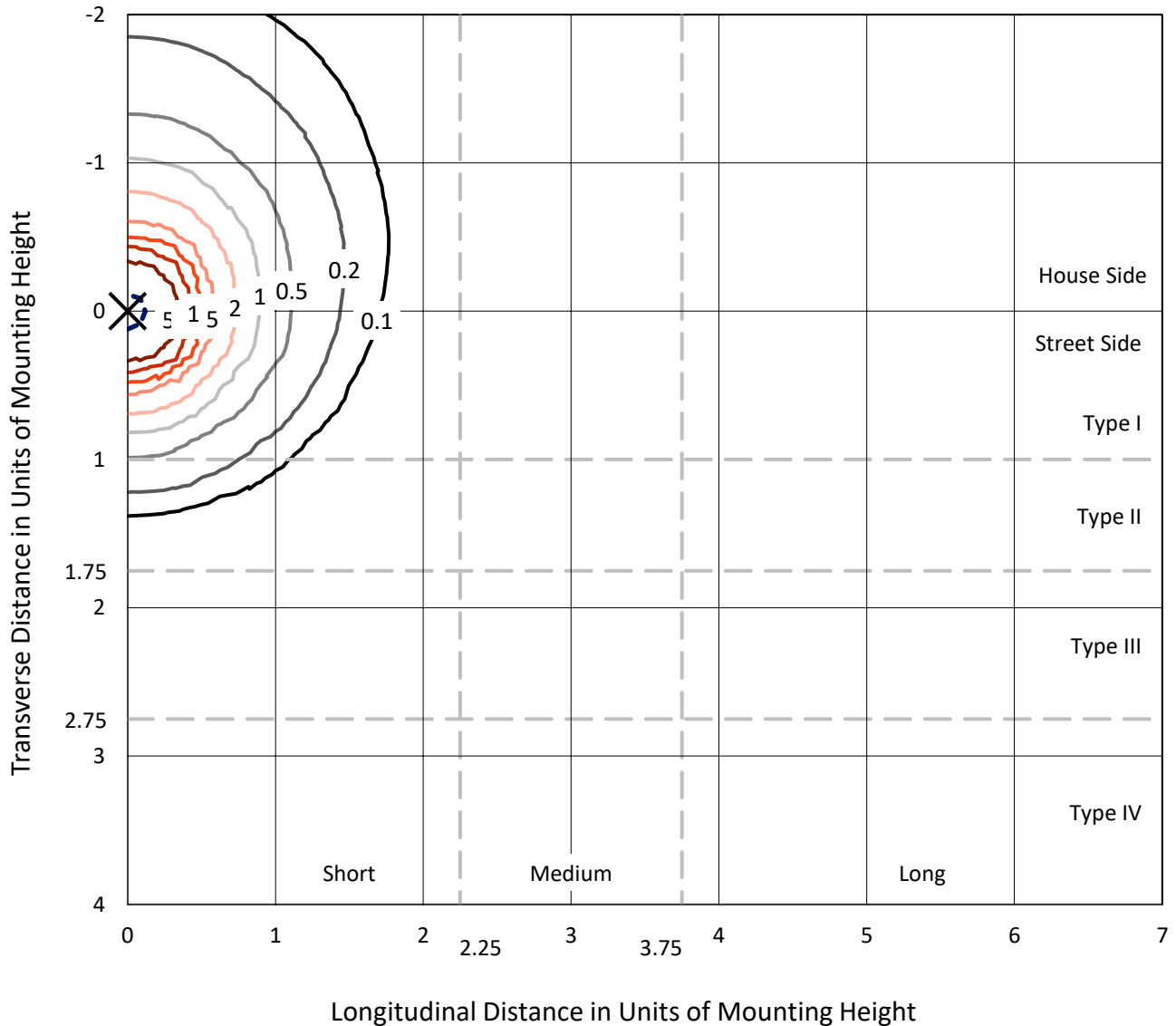
Input Watts (W): 281
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

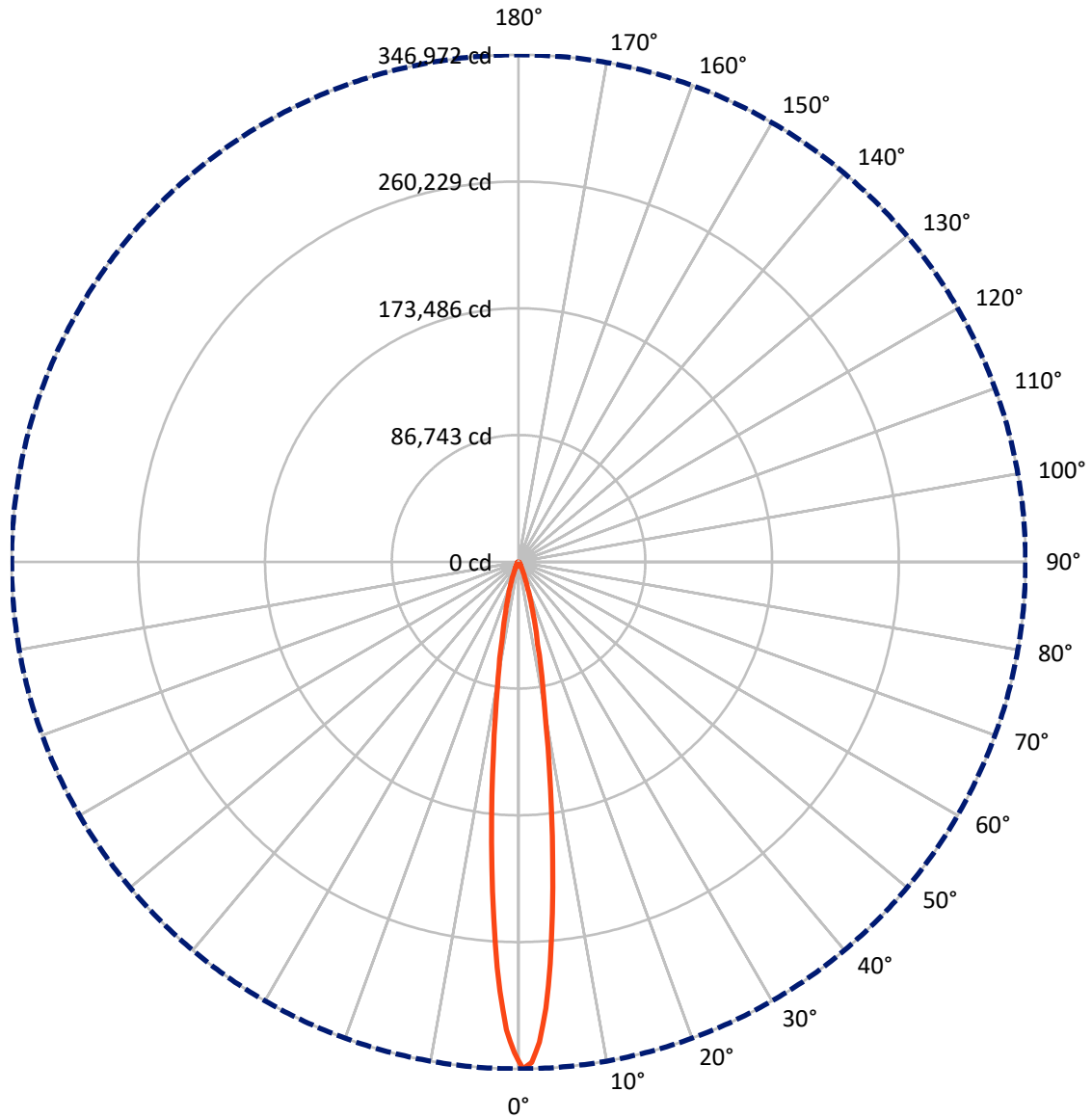
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 867.4 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	17890.7	0.0	17890.7
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	17039.7	0.0	17039.7
	% Fixture	48.8	0.0	48.8
Total	Lumens	34930.3	0.0	34930.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17633.9	50.5
10°-20°	11289.1	32.3
20°-30°	3393.3	9.7
30°-40°	1104.9	3.2
40°-50°	642.8	1.8
50°-60°	427.0	1.2
60°-70°	257.0	0.7
70°-80°	132.1	0.4
80°-90°	50.2	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°	34930.3	100.0
0°-180°	34930.3	100.0

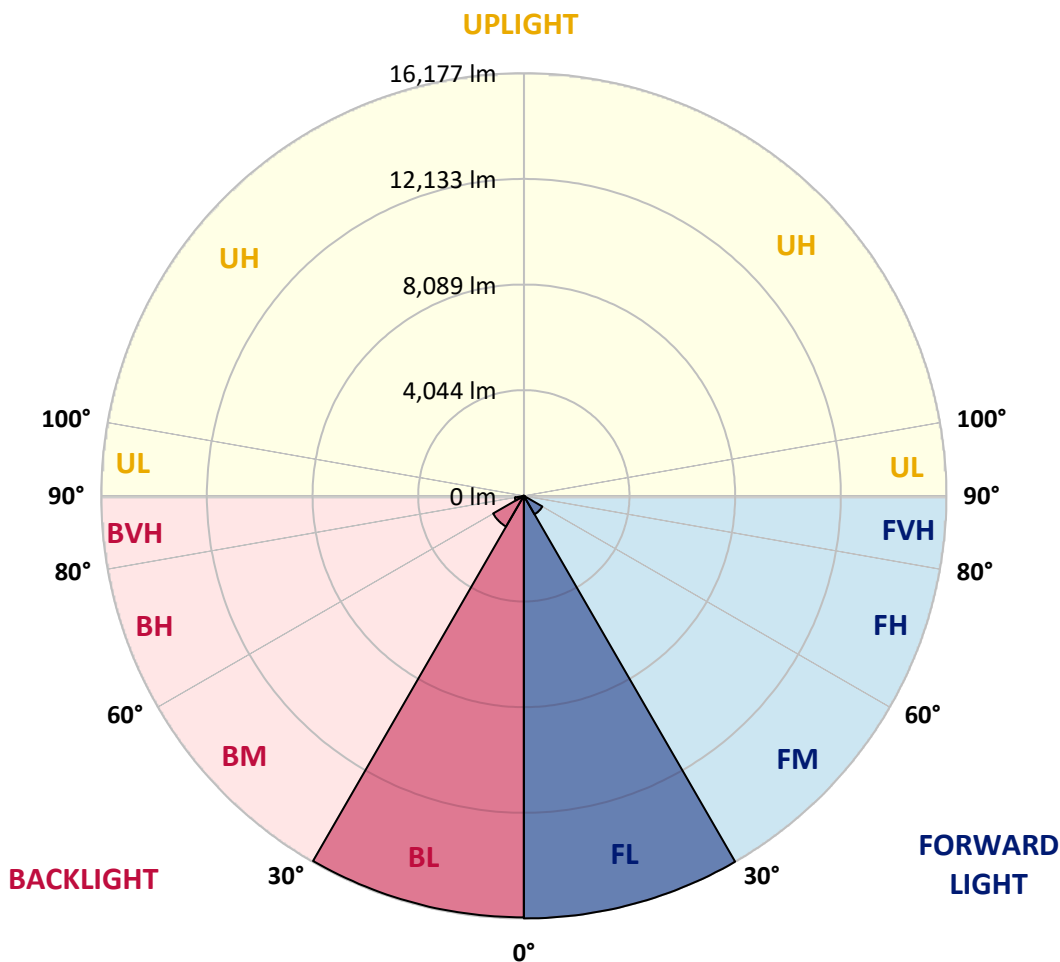


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	16177.3	46.3			
FM (30°-60°)	816.3	2.3			
FH (60°-80°)	38.4	0.1			G0/660
FVH (80°-90°)	7.6	0.0			G0/10
BL (0°-30°)	16139.0	46.2	B5		
BM (30°-60°)	1358.4	3.9	B2/2500		
BH (60°-80°)	350.7	1.0	B1/500		G0/660
BVH (80°-90°)	42.6	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°	346971.8	346971.8	346971.8	346971.8	346971.8	346971.8	346971.8	346971.8	346971.8	346971.8
1°	342817.3	341771.1	339069.9	340991.2	342680.4	342189.6	342155.4	341972.8	341717.9	343719.0
2°	329113.6	328436.4	324441.7	326089.1	328489.7	326739.6	327835.3	326872.8	326891.8	329281.0
3°	306012.9	306381.9	300009.4	303003.5	306340.0	302098.1	303414.4	305887.3	303296.5	302516.6
4°	275988.0	272784.6	269303.5	272347.1	273210.7	270741.6	273168.8	276197.2	272598.2	272758.0
5°	241709.6	239343.3	235223.0	237102.4	234960.5	235740.4	239377.5	240625.4	238114.4	234952.9
6°	206465.0	204783.4	199632.2	202340.9	201580.1	201138.7	205730.7	201926.3	203295.9	201382.2
7°	171737.8	168595.3	166065.3	168659.9	168827.3	167499.6	173461.2	172768.8	170276.8	169698.6
8°	142287.3	139152.4	137010.5	138943.2	140206.3	138121.4	140925.3	142766.7	140818.8	140993.8
9°	114762.0	114210.3	111231.4	113757.6	115131.0	112897.8	116002.2	116668.0	114845.7	115732.1
10°	94229.2	93586.3	91208.5	92231.9	94506.9	91843.8	94822.7	95039.6	93586.3	94000.9
12.5°	58231.3	57972.6	57907.9	58056.3	58025.8	58497.6	59258.5	58391.1	58276.9	56842.6
15°	37637.7	38021.9	37626.2	38387.1	38497.5	38942.6	38478.4	37778.4	36443.1	35781.1
17.5°	23488.8	23979.6	24656.8	25771.5	26886.2	27015.6	26399.2	25577.5	24930.7	24223.1
20°	13513.5	13753.2	13650.5	14985.8	17869.6	18653.3	17858.2	16994.6	16214.7	15499.4
22.5°	8396.5	8309.0	8468.8	8917.7	9857.4	12280.8	11630.3	10766.7	10199.8	9610.1
25°	5147.5	5242.6	5181.7	5429.0	5851.3	6878.5	7026.9	6654.0	6364.9	6060.5
27.5°	3313.7	3313.7	3340.3	3477.3	3766.4	3732.2	4523.5	4234.4	4078.4	3930.0
30°	2301.7	2309.3	2309.3	2389.2	2453.9	2339.8	2545.2	2918.0	2845.7	2731.6
32.5°	1708.2	1731.0	1750.1	1791.9	1738.6	1616.9	1666.4	2100.1	2058.2	2016.4
35°	1301.1	1320.2	1365.8	1388.6	1312.5	1236.5	1190.8	1544.6	1563.6	1552.2
37.5°	947.3	958.7	1042.4	1129.9	1042.4	973.9	947.3	1187.0	1278.3	1266.9
40°	726.7	730.5	745.7	844.6	844.6	791.3	798.9	886.4	1046.2	1046.2
42.5°	623.9	623.9	639.2	623.9	627.7	684.8	703.8	715.2	886.4	886.4
45°	540.2	540.2	547.8	509.8	471.8	589.7	604.9	608.7	745.7	764.7
47.5°	452.7	452.7	468.0	418.5	399.5	468.0	509.8	521.2	643.0	658.2
50°	334.8	338.6	384.3	342.4	353.8	361.4	441.3	448.9	544.0	578.3
52.5°	224.5	224.5	232.1	266.3	308.2	296.7	357.6	384.3	433.7	479.4
55°	182.6	182.6	178.8	171.2	228.3	247.3	262.5	319.6	353.8	410.9
57.5°	125.5	133.2	121.7	140.8	148.4	186.4	197.8	251.1	270.1	346.2
60°	15.2	19.0	26.6	102.7	98.9	125.5	148.4	197.8	220.7	266.3
62.5°	3.8	3.8	7.6	19.0	68.5	83.7	117.9	137.0	159.8	205.4
65°	0.0	0.0	3.8	7.6	15.2	45.7	60.9	79.9	114.1	144.6
67.5°	0.0	0.0	3.8	7.6	7.6	19.0	30.4	49.5	60.9	106.5
70°	0.0	0.0	3.8	7.6	7.6	15.2	19.0	22.8	41.8	57.1
72.5°	0.0	0.0	3.8	7.6	11.4	15.2	19.0	19.0	19.0	38.0
75°	0.0	0.0	3.8	7.6	11.4	15.2	19.0	19.0	15.2	15.2
77.5°	0.0	0.0	3.8	7.6	15.2	19.0	22.8	19.0	11.4	11.4
80°	0.0	0.0	3.8	11.4	19.0	26.6	30.4	22.8	11.4	7.6
82.5°	0.0	0.0	7.6	15.2	22.8	30.4	41.8	34.2	15.2	7.6
85°	0.0	0.0	3.8	11.4	22.8	30.4	60.9	41.8	19.0	3.8
87.5°	0.0	0.0	0.0	3.8	3.8	7.6	22.8	15.2	7.6	3.8
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°
346971.8	0°	346971.8	346971.8	346971.8	346971.8	346971.8	346971.8	346971.8	346971.8
341409.7	1°	343795.1	344034.8	343251.1	344464.7	344038.6	341542.8	340717.3	339739.5
327877.2	2°	326872.8	328094.0	328154.9	329501.7	329482.7	326572.2	325670.6	327333.1
304099.2	3°	303178.5	304601.4	303319.3	305712.3	304993.3	301462.7	300545.8	302432.9
274021.0	4°	273203.1	272933.0	272491.6	271129.6	272807.4	270399.2	268584.4	271144.9
239145.4	5°	238666.1	238065.0	237205.1	236801.9	238049.7	236508.9	232776.7	236516.5
204844.3	6°	205095.4	202508.3	202382.8	202158.3	202283.9	197969.6	198228.3	201013.2
167708.8	7°	169481.7	169957.3	168987.1	170543.2	169356.2	166434.3	165308.2	168241.4
141762.3	8°	140773.1	140172.0	139430.2	141754.7	139696.5	137779.0	136466.5	138783.4
115876.7	9°	115659.8	114621.2	113867.9	113750.0	114069.5	110470.5	111201.0	112954.8
94229.2	10°	94263.5	92559.0	92973.7	93084.1	92734.1	90375.3	90398.1	91003.0
57793.8	12.5°	57588.3	56751.3	56960.6	57074.7	57786.2	56956.8	55785.0	54940.4
36439.3	15°	36195.8	35594.7	36823.5	37649.1	37481.7	36743.6	36192.0	35427.3
24223.1	17.5°	23998.6	24786.1	24790.0	25543.2	25619.3	24881.3	24455.2	23766.5
15754.3	20°	15697.3	16024.4	16705.4	17238.1	17546.2	16983.2	16473.4	16001.6
9823.2	22.5°	9823.2	10393.8	10819.9	11512.3	11793.9	11383.0	11021.6	10637.3
6132.8	25°	6030.1	6437.2	6791.0	7392.1	7776.3	7578.5	7247.5	6977.4
3960.5	27.5°	4021.3	4192.5	4367.5	4782.2	5181.7	5071.4	4938.2	4774.6
2792.5	30°	2834.3	2849.6	3036.0	3268.0	3534.4	3602.8	3542.0	3458.3
2050.6	32.5°	2088.7	2149.5	2237.0	2381.6	2560.4	2724.0	2693.6	2655.5
1567.4	35°	1613.1	1704.4	1776.7	1887.0	1982.1	2138.1	2164.7	2153.3
1289.7	37.5°	1316.3	1396.2	1468.5	1533.2	1613.1	1719.6	1803.3	1807.1
1065.3	40°	1091.9	1164.2	1259.3	1308.7	1365.8	1445.7	1548.4	1556.0
901.7	42.5°	920.7	989.2	1084.3	1145.1	1187.0	1263.1	1365.8	1381.0
772.3	45°	791.3	833.2	932.1	1004.4	1046.2	1095.7	1206.0	1221.2
665.8	47.5°	688.6	730.5	791.3	894.1	932.1	977.7	1065.3	1091.9
589.7	50°	604.9	646.8	700.0	791.3	848.4	886.4	958.7	996.8
513.6	52.5°	536.4	578.3	635.3	707.6	772.3	806.5	875.0	924.5
418.5	55°	448.9	521.2	563.1	627.7	715.2	745.7	798.9	863.6
365.2	57.5°	391.9	452.7	513.6	566.9	654.4	692.4	745.7	806.5
289.1	60°	331.0	388.1	460.3	506.0	589.7	639.2	696.2	753.3
220.7	62.5°	262.5	338.6	388.1	452.7	532.6	597.3	643.0	700.0
171.2	65°	194.0	277.7	334.8	403.3	479.4	547.8	585.9	646.8
121.7	67.5°	140.8	216.9	285.3	350.0	422.3	490.8	528.8	582.1
76.1	70°	110.3	159.8	235.9	292.9	369.0	426.1	468.0	502.2
49.5	72.5°	64.7	121.7	190.2	254.9	323.4	361.4	391.9	422.3
22.8	75°	41.8	95.1	156.0	213.1	262.5	296.7	323.4	350.0
11.4	77.5°	26.6	68.5	125.5	178.8	201.6	243.5	266.3	281.5
7.6	80°	15.2	53.3	110.3	144.6	163.6	190.2	213.1	232.1
7.6	82.5°	11.4	45.7	91.3	121.7	121.7	152.2	163.6	163.6
3.8	85°	7.6	38.0	72.3	114.1	91.3	114.1	106.5	106.5
3.8	87.5°	7.6	26.6	34.2	49.5	41.8	49.5	49.5	57.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
346971.8
335866.6
320291.1
294051.6
261877.2
226663.0
192940.1
160263.5
132167.4
107476.4
86886.6
54426.8
35035.4
23595.3
15838.0
10431.9
6821.4
4679.5
3401.2
2625.1
2115.3
1780.5
1544.6
1369.6
1217.4
1095.7
1000.6
924.5
867.4
810.4
768.5
726.7
658.2
585.9
513.6
429.9
350.0
273.9
209.2
152.2
102.7
57.1
0.0

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