

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: P637165

Luminaire Tested: **IFLD-L-SA7C-750-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637165
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-750-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45095.8 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

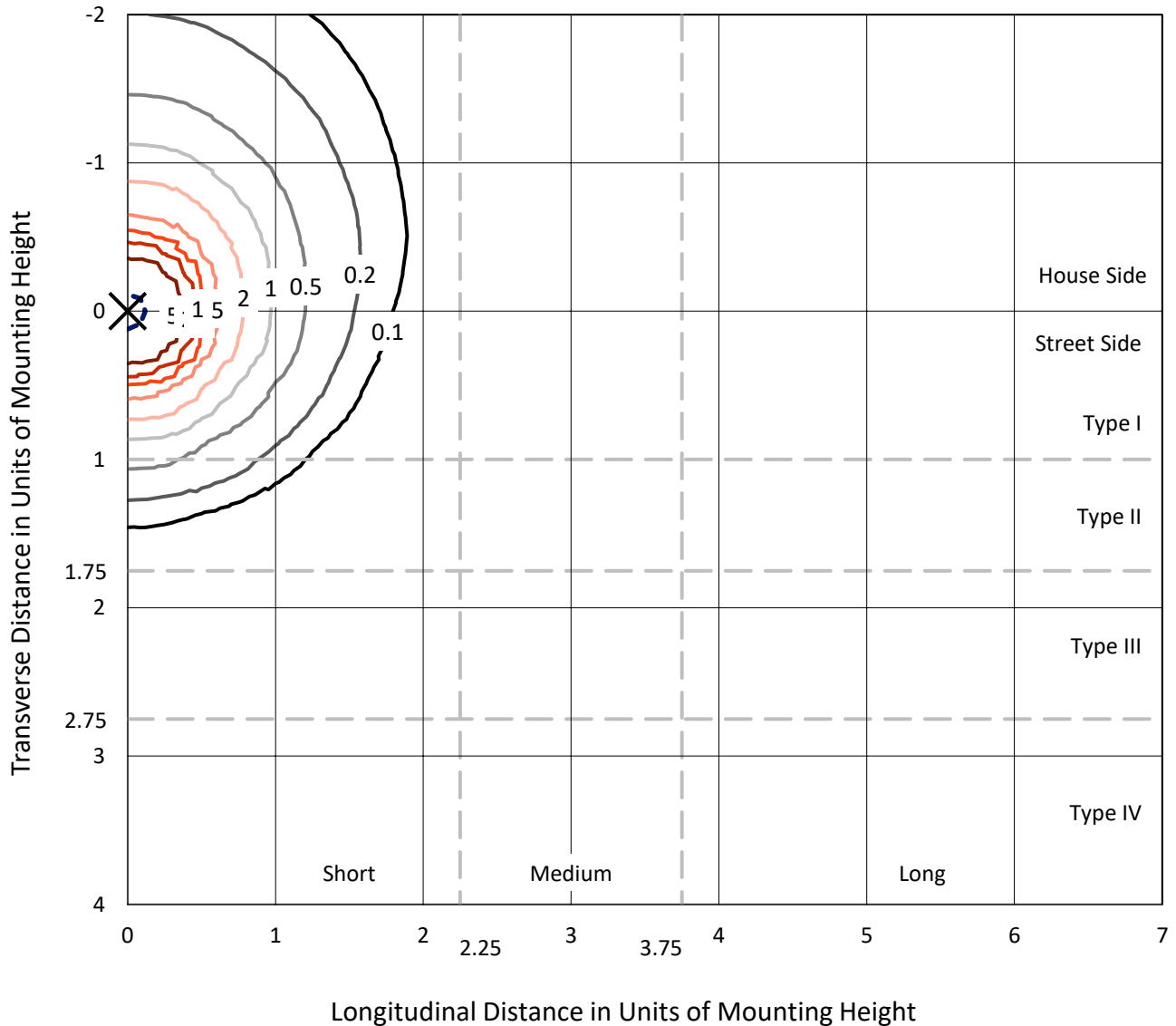
Input Watts (W): 369
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

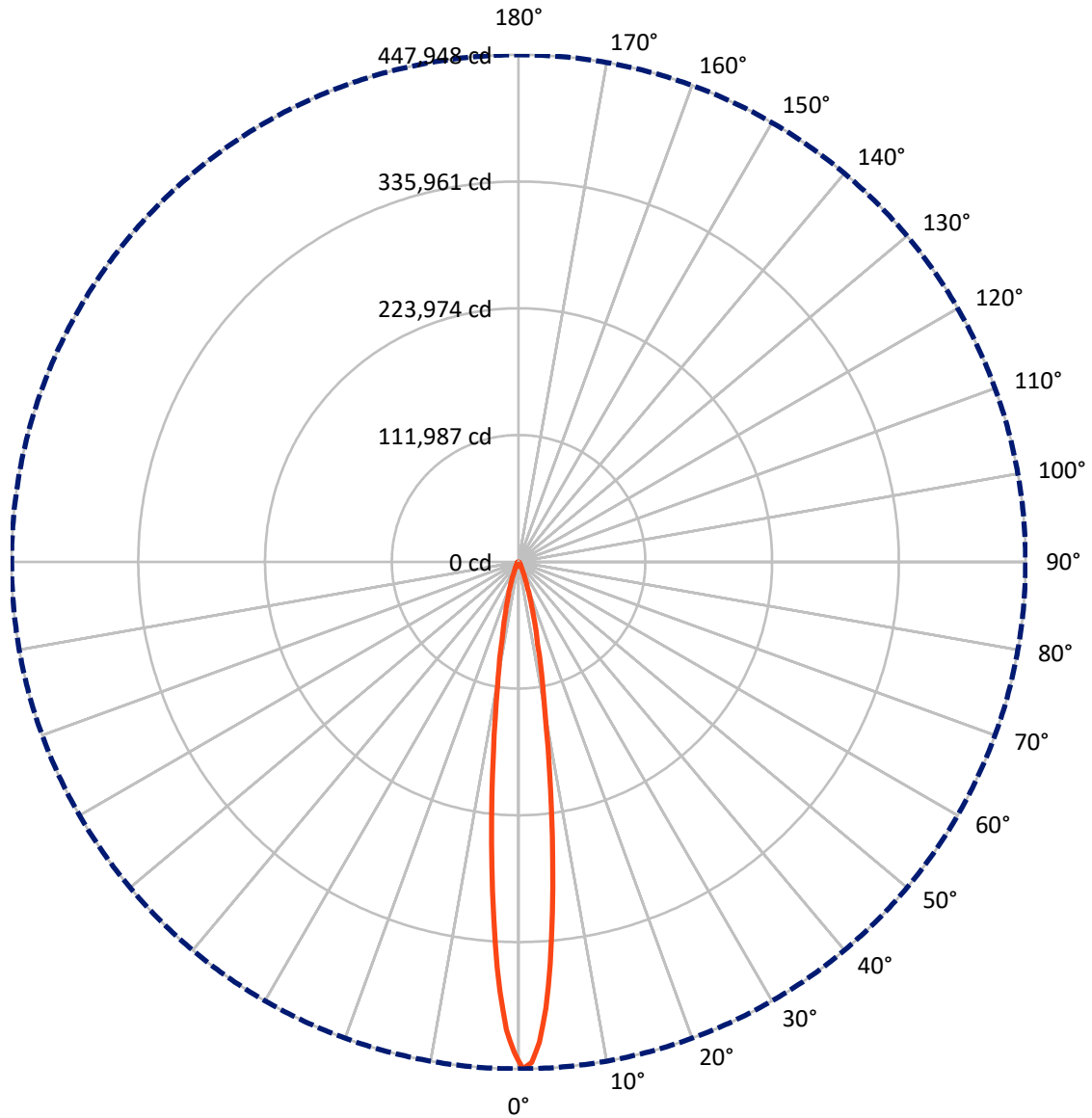
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1119.9 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	23097.2	0.0	23097.2
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	21998.6	0.0	21998.6
	% Fixture	48.8	0.0	48.8
Total	Lumens	45095.8	0.0	45095.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22765.7	50.5
10°-20°	14574.5	32.3
20°-30°	4380.8	9.7
30°-40°	1426.4	3.2
40°-50°	829.9	1.8
50°-60°	551.3	1.2
60°-70°	331.8	0.7
70°-80°	170.6	0.4
80°-90°	64.8	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°	45095.8	100.0
0°-180°	45095.8	100.0

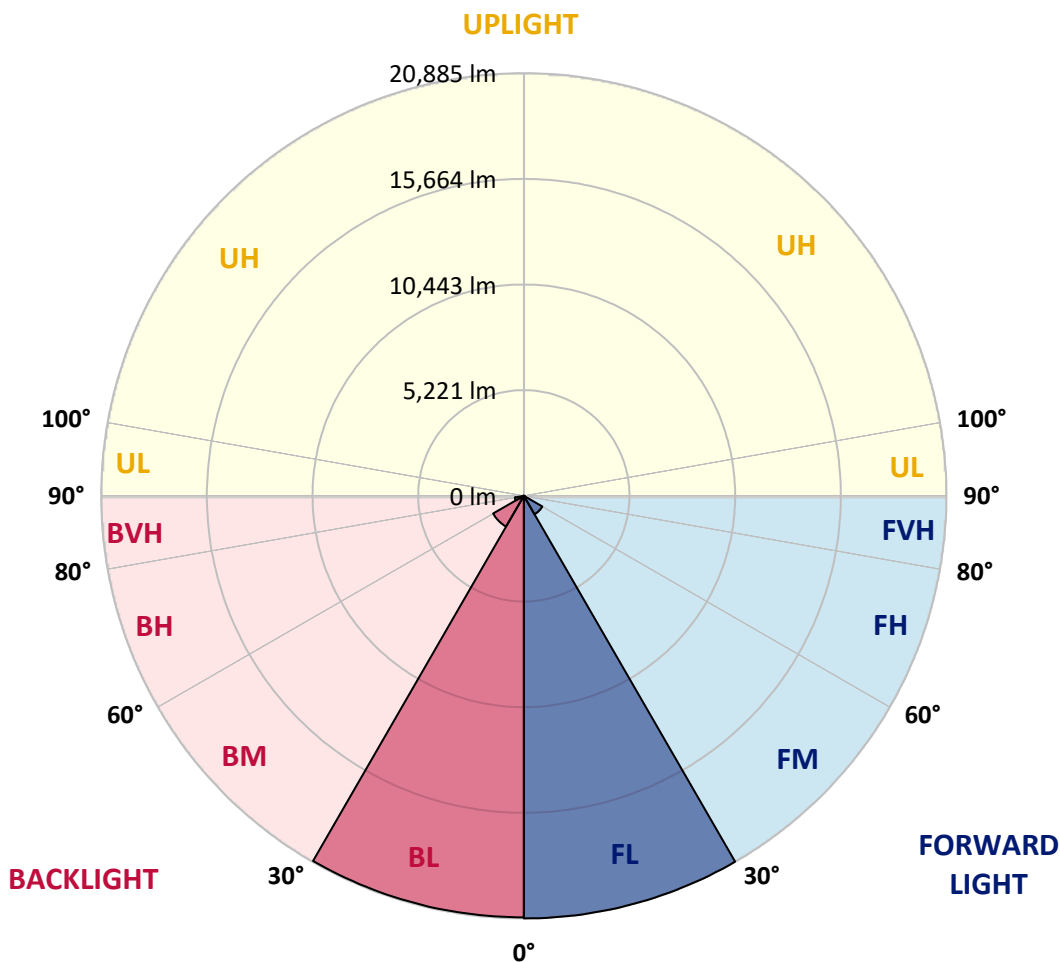


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	20885.3	46.3			
FM (30°-60°)	1053.9	2.3			
FH (60°-80°)	49.6	0.1			G0/660
FVH (80°-90°)	9.8	0.0			G0/10
BL (0°-30°)	20835.8	46.2	B5		
BM (30°-60°)	1753.7	3.9	B2/2500		
BH (60°-80°)	452.8	1.0	B1/500		G0/660
BVH (80°-90°)	55.0	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°	447947.5	447947.5	447947.5	447947.5	447947.5	447947.5	447947.5	447947.5	447947.5	447947.5
1°	442584.0	441233.3	437746.0	440226.4	442407.2	441773.6	441729.4	441493.6	441164.5	443748.1
2°	424892.2	424018.0	418860.7	420987.5	424086.7	421827.4	423241.9	421999.3	422023.8	425108.3
3°	395068.7	395545.1	387318.1	391183.6	395491.1	390014.6	391714.0	394906.6	391561.8	390554.9
4°	356305.9	352170.3	347676.2	351605.5	352720.4	349532.8	352666.4	356576.1	351929.6	352135.9
5°	312052.0	308996.9	303677.6	306103.9	303338.7	304345.6	309041.1	310652.1	307410.4	303328.9
6°	266550.4	264379.5	257729.1	261226.2	260243.9	259674.1	265602.5	260690.8	262459.0	259988.4
7°	221716.9	217659.8	214393.6	217743.3	217959.4	216245.3	223941.8	223047.9	219830.8	219084.2
8°	183695.8	179648.6	176883.3	179378.4	181009.1	178317.5	181937.4	184314.6	181799.9	182025.8
9°	148160.0	147447.8	143602.0	146863.3	148636.4	145753.3	149761.2	150620.7	148268.0	149412.4
10°	121651.8	120821.7	117751.9	119073.2	122010.3	118572.2	122418.0	122698.0	120821.7	121357.1
12.5°	75177.7	74843.7	74760.2	74951.8	74912.5	75521.6	76503.9	75384.0	75236.7	73385.0
15°	48591.0	49087.0	48576.2	49558.6	49701.0	50275.7	49676.4	48772.7	47048.7	46194.1
17.5°	30324.5	30958.1	31832.4	33271.5	34710.6	34877.6	34081.9	33021.0	32186.1	31272.5
20°	17446.2	17755.6	17623.0	19347.0	23070.0	24081.8	23055.3	21940.3	20933.5	20010.1
22.5°	10840.0	10727.0	10933.3	11512.9	12726.1	15854.8	15014.9	13900.0	13168.1	12406.8
25°	6645.5	6768.3	6689.7	7008.9	7554.1	8880.3	9071.8	8590.5	8217.2	7824.3
27.5°	4278.0	4278.0	4312.4	4489.2	4862.5	4818.3	5840.0	5466.7	5265.3	5073.7
30°	2971.5	2981.4	2981.4	3084.5	3168.0	3020.7	3285.9	3767.2	3673.9	3526.6
32.5°	2205.3	2234.8	2259.4	2313.4	2244.6	2087.5	2151.3	2711.2	2657.2	2603.2
35°	1679.8	1704.3	1763.3	1792.8	1694.5	1596.3	1537.3	1994.1	2018.7	2004.0
37.5°	1223.0	1237.7	1345.8	1458.8	1345.8	1257.4	1223.0	1532.4	1650.3	1635.6
40°	938.1	943.0	962.7	1090.4	1090.4	1021.6	1031.4	1144.4	1350.7	1350.7
42.5°	805.5	805.5	825.2	805.5	810.4	884.1	908.7	923.4	1144.4	1144.4
45°	697.5	697.5	707.3	658.2	609.0	761.3	781.0	785.9	962.7	987.2
47.5°	584.5	584.5	604.1	540.3	515.7	604.1	658.2	672.9	830.1	849.7
50°	432.2	437.1	496.1	442.0	456.8	466.6	569.8	579.6	702.4	746.6
52.5°	289.8	289.8	299.6	343.8	397.8	383.1	461.7	496.1	559.9	618.9
55°	235.8	235.8	230.8	221.0	294.7	319.3	338.9	412.6	456.8	530.5
57.5°	162.1	171.9	157.2	181.7	191.6	240.7	255.4	324.2	348.7	447.0
60°	19.6	24.6	34.4	132.6	127.7	162.1	191.6	255.4	284.9	343.8
62.5°	4.9	4.9	9.8	24.6	88.4	108.1	152.3	176.8	206.3	265.2
65°	0.0	0.0	4.9	9.8	19.6	58.9	78.6	103.1	147.3	186.6
67.5°	0.0	0.0	4.9	9.8	9.8	24.6	39.3	63.9	78.6	137.5
70°	0.0	0.0	4.9	9.8	9.8	19.6	24.6	29.5	54.0	73.7
72.5°	0.0	0.0	4.9	9.8	14.7	19.6	24.6	24.6	24.6	49.1
75°	0.0	0.0	4.9	9.8	14.7	19.6	24.6	24.6	19.6	19.6
77.5°	0.0	0.0	4.9	9.8	19.6	24.6	29.5	24.6	14.7	14.7
80°	0.0	0.0	4.9	14.7	24.6	34.4	39.3	29.5	14.7	9.8
82.5°	0.0	0.0	9.8	19.6	29.5	39.3	54.0	44.2	19.6	9.8
85°	0.0	0.0	4.9	14.7	29.5	39.3	78.6	54.0	24.6	4.9
87.5°	0.0	0.0	0.0	4.9	4.9	9.8	29.5	19.6	9.8	4.9
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°
447947.5	0°	447947.5	447947.5	447947.5	447947.5	447947.5	447947.5	447947.5	447947.5
440766.7	1°	443846.3	444155.7	443143.9	444710.7	444160.6	440938.6	439872.8	438610.5
423295.9	2°	421999.3	423575.9	423654.5	425393.2	425368.7	421611.2	420447.2	422593.6
392598.1	3°	391409.5	393246.5	391591.2	394680.7	393752.4	389194.3	388010.6	390446.8
353766.6	4°	352710.6	352361.9	351792.1	350033.8	352199.8	349090.7	346747.9	350053.4
308741.5	5°	308122.6	307346.6	306236.6	305715.9	307326.9	305337.7	300519.4	305347.5
264458.0	6°	264782.2	261442.3	261280.2	260990.4	261152.5	255582.7	255916.7	259512.0
216515.4	7°	218804.2	219418.2	218165.7	220174.6	218642.2	214870.0	213416.2	217203.1
183018.0	8°	181740.9	180964.9	180007.1	183008.1	180350.9	177875.5	176180.9	179172.1
149599.1	9°	149319.1	147978.2	147005.7	146853.5	147266.0	142619.6	143562.7	145826.9
121651.8	10°	121696.0	119495.6	120030.9	120173.4	119721.5	116676.3	116705.7	117486.7
74612.9	12.5°	74347.7	73267.1	73537.2	73684.6	74603.1	73532.3	72019.5	70929.2
47043.8	15°	46729.5	45953.4	47539.9	48605.7	48389.6	47436.7	46724.5	45737.3
31272.5	17.5°	30982.7	31999.4	32004.3	32976.8	33075.1	32122.2	31572.1	30683.1
20339.1	20°	20265.5	20687.9	21567.1	22254.7	22652.5	21925.6	21267.5	20658.4
12681.9	22.5°	12681.9	13418.6	13968.7	14862.7	15226.1	14695.7	14229.1	13733.0
7917.6	25°	7785.0	8310.5	8767.3	9543.3	10039.4	9784.0	9356.7	9008.0
5113.0	27.5°	5191.6	5412.6	5638.6	6173.9	6689.7	6547.2	6375.3	6164.1
3605.2	30°	3659.2	3678.8	3919.5	4219.1	4562.9	4651.3	4572.7	4464.7
2647.4	32.5°	2696.5	2775.1	2888.1	3074.7	3305.5	3516.7	3477.4	3428.3
2023.6	35°	2082.5	2200.4	2293.7	2436.2	2559.0	2760.3	2794.7	2780.0
1665.0	37.5°	1699.4	1802.6	1895.9	1979.4	2082.5	2220.1	2328.1	2333.0
1375.3	40°	1409.6	1503.0	1625.8	1689.6	1763.3	1866.4	1999.0	2008.9
1164.1	42.5°	1188.6	1277.0	1399.8	1478.4	1532.4	1630.7	1763.3	1782.9
997.1	45°	1021.6	1075.7	1203.4	1296.7	1350.7	1414.6	1557.0	1576.6
859.5	47.5°	889.0	943.0	1021.6	1154.2	1203.4	1262.3	1375.3	1409.6
761.3	50°	781.0	835.0	903.7	1021.6	1095.3	1144.4	1237.7	1286.9
663.1	52.5°	692.5	746.6	820.2	913.6	997.1	1041.3	1129.7	1193.5
540.3	55°	579.6	672.9	726.9	810.4	923.4	962.7	1031.4	1114.9
471.5	57.5°	505.9	584.5	663.1	731.8	844.8	893.9	962.7	1041.3
373.3	60°	427.3	501.0	594.3	653.2	761.3	825.2	898.8	972.5
284.9	62.5°	338.9	437.1	501.0	584.5	687.6	771.1	830.1	903.7
221.0	65°	250.5	358.6	432.2	520.6	618.9	707.3	756.4	835.0
157.2	67.5°	181.7	280.0	368.4	451.9	545.2	633.6	682.7	751.5
98.2	70°	142.4	206.3	304.5	378.2	476.4	550.1	604.1	648.3
63.9	72.5°	83.5	157.2	245.6	329.1	417.5	466.6	505.9	545.2
29.5	75°	54.0	122.8	201.4	275.1	338.9	383.1	417.5	451.9
14.7	77.5°	34.4	88.4	162.1	230.8	260.3	314.3	343.8	363.5
9.8	80°	19.6	68.8	142.4	186.6	211.2	245.6	275.1	299.6
9.8	82.5°	14.7	58.9	117.9	157.2	157.2	196.5	211.2	211.2
4.9	85°	9.8	49.1	93.3	147.3	117.9	147.3	137.5	137.5
4.9	87.5°	9.8	34.4	44.2	63.9	54.0	63.9	63.9	73.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
447947.5
433610.4
413502.1
379626.5
338088.6
292626.4
249089.5
206903.3
170630.8
138754.2
112172.3
70266.1
45231.4
30462.1
20447.2
13467.7
8806.6
6041.3
4391.0
3389.0
2730.9
2298.7
1994.1
1768.2
1571.7
1414.6
1291.8
1193.5
1119.9
1046.2
992.2
938.1
849.7
756.4
663.1
555.0
451.9
353.6
270.1
196.5
132.6
73.7
0.0

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