

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: P637053

Luminaire Tested: **IFLD-L-SA8B-727-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637053
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-727-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33848.5 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

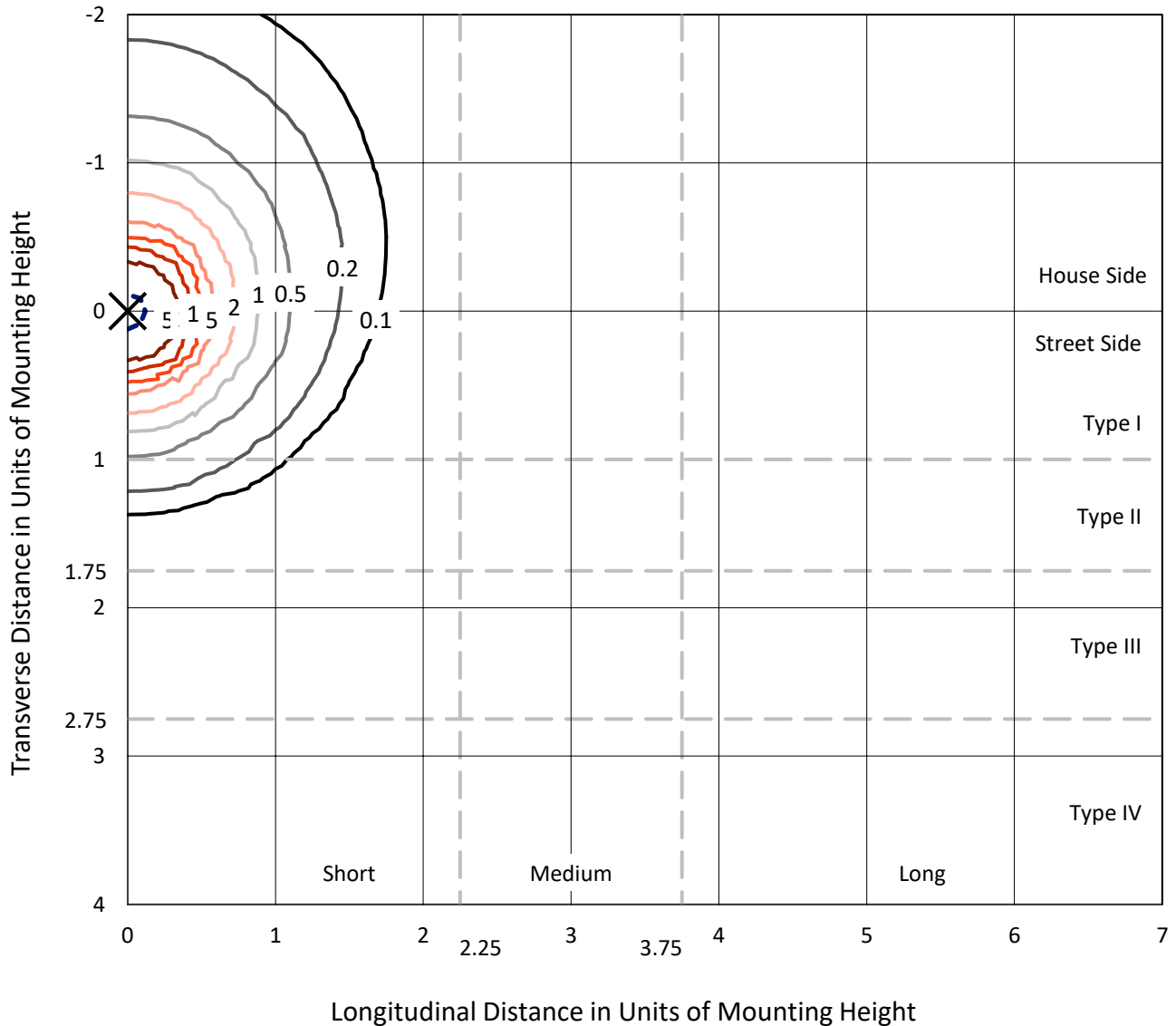
Input Watts (W): 320
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

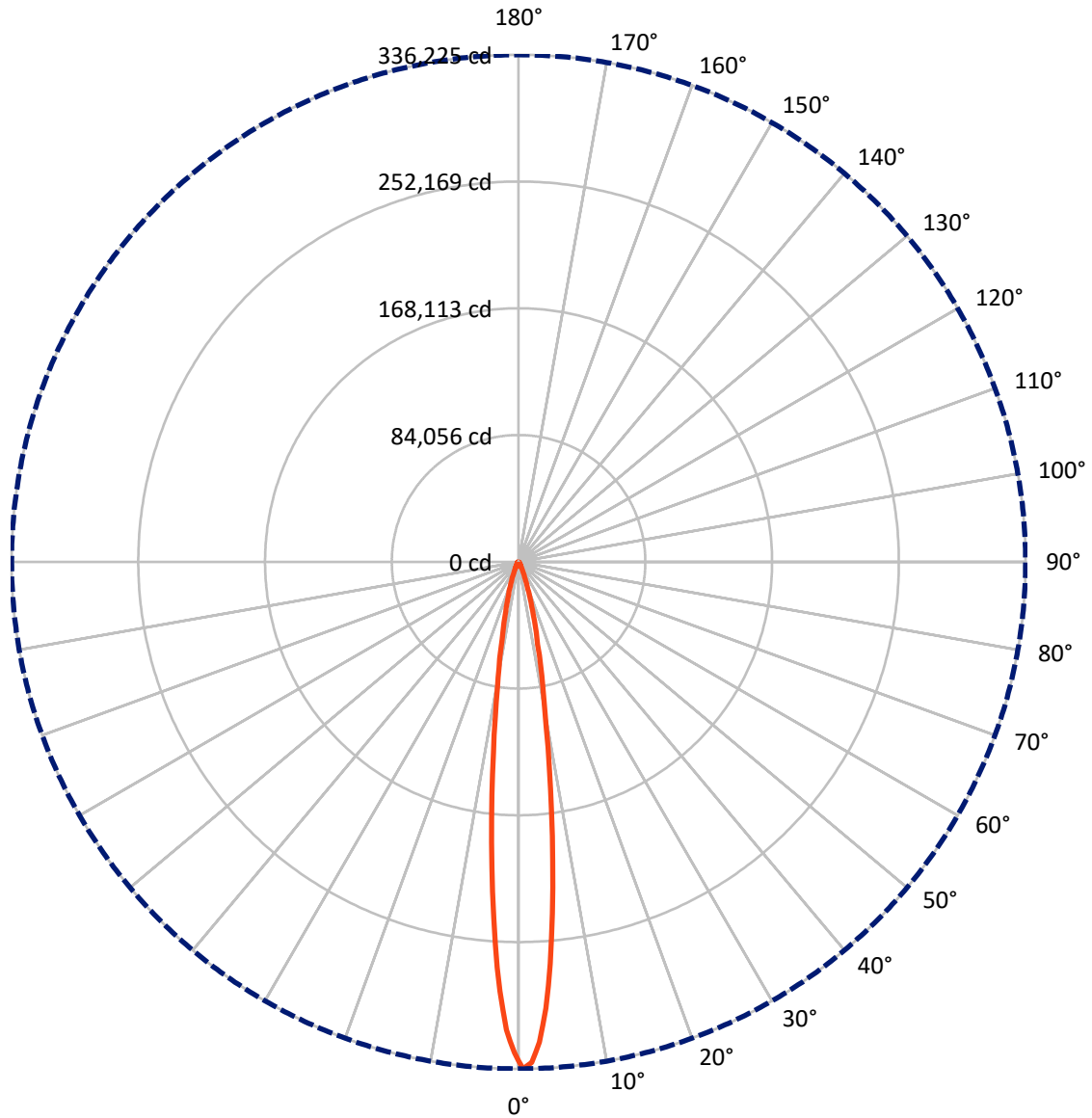
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 840.6 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	17336.6	0.0	17336.6
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	16511.9	0.0	16511.9
	% Fixture	48.8	0.0	48.8
Total	Lumens	33848.5	0.0	33848.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17087.7	50.5
10°-20°	10939.5	32.3
20°-30°	3288.2	9.7
30°-40°	1070.6	3.2
40°-50°	622.9	1.8
50°-60°	413.8	1.2
60°-70°	249.1	0.7
70°-80°	128.0	0.4
80°-90°	48.6	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°	33848.5	100.0
0°-180°	33848.5	100.0

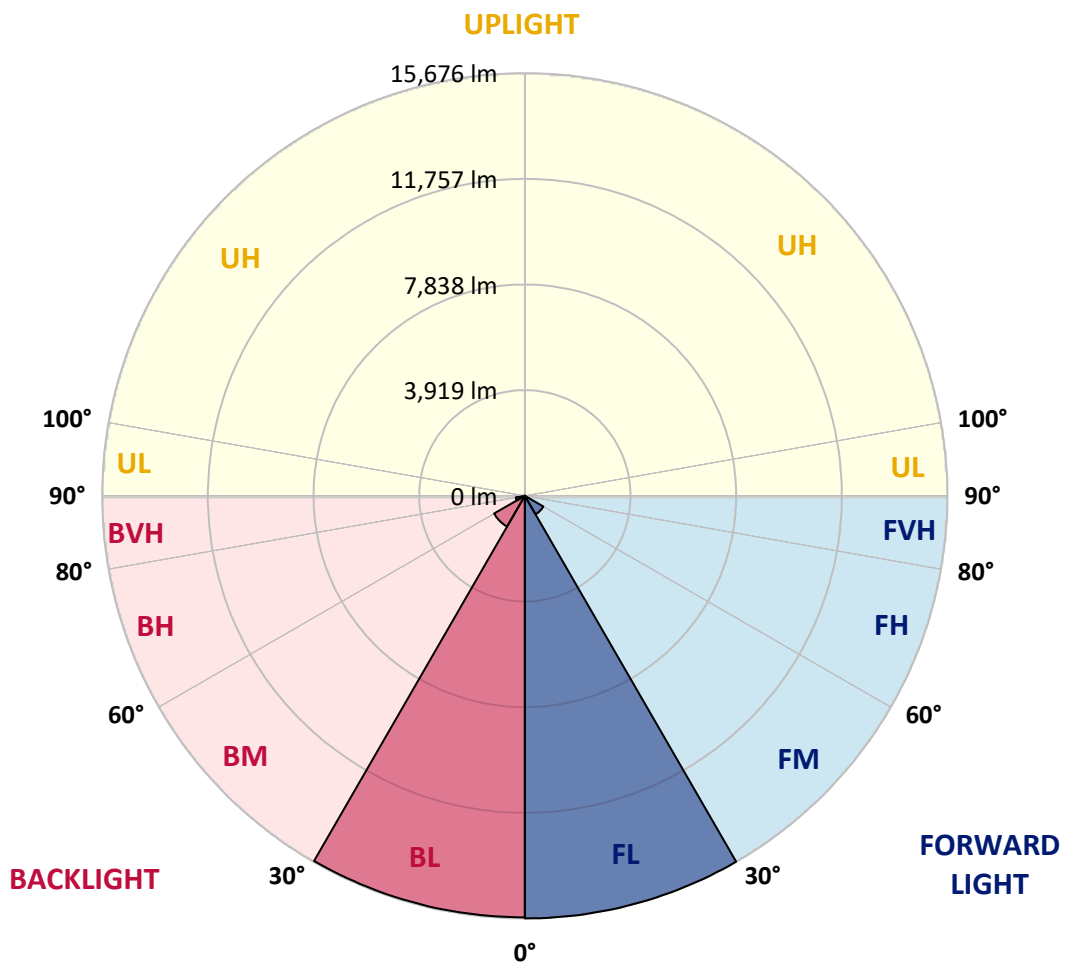


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	15676.3	46.3			
FM (30°-60°)	791.1	2.3			
FH (60°-80°)	37.2	0.1			G0/660
FVH (80°-90°)	7.3	0.0			G0/10
BL (0°-30°)	15639.1	46.2	B5		
BM (30°-60°)	1316.3	3.9	B2/2500		
BH (60°-80°)	339.9	1.0	B1/500		G0/660
BVH (80°-90°)	41.3	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°	336225.2	336225.2	336225.2	336225.2	336225.2	336225.2	336225.2	336225.2	336225.2	336225.2
1°	332199.4	331185.6	328568.1	330429.8	332066.7	331591.1	331557.9	331381.0	331134.0	333073.2
2°	318920.1	318263.9	314393.0	315989.3	318315.5	316619.7	317681.4	316748.7	316767.1	319082.4
3°	296534.9	296892.5	290717.4	293618.7	296851.9	292741.3	294016.9	296413.2	293902.6	293146.8
4°	267439.9	264335.8	260962.5	263911.8	264748.7	262356.0	264708.1	267642.7	264155.1	264310.0
5°	234223.3	231930.2	227937.6	229758.8	227683.2	228438.9	231963.4	233172.6	230739.4	227675.8
6°	200070.3	198440.8	193449.0	196073.9	195336.6	194909.0	199358.7	195672.1	196999.3	195144.9
7°	166418.6	163373.4	160921.8	163436.1	163598.3	162311.7	168088.7	167417.7	165002.9	164442.6
8°	137880.3	134842.5	132767.0	134639.8	135863.7	133843.5	136560.5	138344.8	136457.3	136626.9
9°	111207.5	110672.9	107786.3	110234.2	111565.1	109401.0	112409.3	113054.5	111288.6	112147.6
10°	91310.7	90687.7	88383.5	89375.2	91579.8	88999.2	91885.8	92095.9	90687.7	91089.5
12.5°	56427.7	56177.0	56114.3	56258.1	56228.6	56685.8	57423.1	56582.5	56471.9	55082.1
15°	36471.9	36844.3	36460.9	37198.2	37305.1	37736.4	37286.7	36608.3	35314.3	34672.8
17.5°	22761.3	23236.9	23893.1	24973.3	26053.5	26178.8	25581.6	24785.3	24158.6	23472.8
20°	13094.9	13327.2	13227.7	14521.7	17316.1	18075.6	17305.1	16468.2	15712.5	15019.4
22.5°	8136.4	8051.6	8206.5	8641.5	9552.1	11900.5	11270.1	10433.2	9883.9	9312.5
25°	4988.0	5080.2	5021.2	5260.8	5670.1	6665.4	6809.2	6447.9	6167.7	5872.8
27.5°	3211.1	3211.1	3236.9	3369.6	3649.8	3616.6	4383.4	4103.2	3952.1	3808.3
30°	2230.4	2237.8	2237.8	2315.2	2377.9	2267.3	2466.4	2827.7	2757.6	2647.0
32.5°	1655.3	1677.4	1695.9	1736.4	1684.8	1566.8	1614.7	2035.0	1994.5	1953.9
35°	1260.8	1279.3	1323.5	1345.6	1271.9	1198.2	1153.9	1496.8	1515.2	1504.1
37.5°	918.0	929.0	1010.1	1094.9	1010.1	943.8	918.0	1150.2	1238.7	1227.7
40°	704.1	707.8	722.6	818.4	818.4	766.8	774.2	859.0	1013.8	1013.8
42.5°	604.6	604.6	619.4	604.6	608.3	663.6	682.0	693.1	859.0	859.0
45°	523.5	523.5	530.9	494.0	457.1	571.4	586.2	589.9	722.6	741.0
47.5°	438.7	438.7	453.5	405.5	387.1	453.5	494.0	505.1	623.0	637.8
50°	324.4	328.1	372.4	331.8	342.9	350.2	427.7	435.0	527.2	560.4
52.5°	217.5	217.5	224.9	258.1	298.6	287.6	346.5	372.4	420.3	464.5
55°	177.0	177.0	173.3	165.9	221.2	239.6	254.4	309.7	342.9	398.2
57.5°	121.7	129.0	118.0	136.4	143.8	180.6	191.7	243.3	261.8	335.5
60°	14.7	18.4	25.8	99.5	95.9	121.7	143.8	191.7	213.8	258.1
62.5°	3.7	3.7	7.4	18.4	66.4	81.1	114.3	132.7	154.8	199.1
65°	0.0	0.0	3.7	7.4	14.7	44.2	59.0	77.4	110.6	140.1
67.5°	0.0	0.0	3.7	7.4	7.4	18.4	29.5	47.9	59.0	103.2
70°	0.0	0.0	3.7	7.4	7.4	14.7	18.4	22.1	40.6	55.3
72.5°	0.0	0.0	3.7	7.4	11.1	14.7	18.4	18.4	18.4	36.9
75°	0.0	0.0	3.7	7.4	11.1	14.7	18.4	18.4	14.7	14.7
77.5°	0.0	0.0	3.7	7.4	14.7	18.4	22.1	18.4	11.1	11.1
80°	0.0	0.0	3.7	11.1	18.4	25.8	29.5	22.1	11.1	7.4
82.5°	0.0	0.0	7.4	14.7	22.1	29.5	40.6	33.2	14.7	7.4
85°	0.0	0.0	3.7	11.1	22.1	29.5	59.0	40.6	18.4	3.7
87.5°	0.0	0.0	0.0	3.7	3.7	7.4	22.1	14.7	7.4	3.7
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°
336225.2	0°	336225.2	336225.2	336225.2	336225.2	336225.2	336225.2	336225.2	336225.2
330835.4	1°	333146.9	333379.1	332619.7	333795.7	333382.8	330964.4	330164.4	329216.9
317722.0	2°	316748.7	317932.1	317991.1	319296.2	319277.7	316457.5	315583.7	317194.8
294680.5	3°	293788.3	295167.1	293924.7	296243.6	295546.8	292125.6	291237.2	293065.7
265533.9	4°	264741.3	264479.5	264051.9	262732.1	264357.9	262024.2	260265.7	262746.8
231738.5	5°	231274.0	230691.5	229858.3	229467.5	230676.7	229183.6	225567.1	229191.0
198499.7	6°	198743.1	196236.1	196114.5	195897.0	196018.6	191838.0	192088.7	194787.3
162514.5	7°	164232.4	164693.3	163753.2	165261.0	164110.8	161279.4	160188.2	163030.6
137371.6	8°	136413.0	135830.6	135111.7	137364.2	135369.7	133511.7	132239.8	134484.9
112287.7	9°	112077.5	111071.1	110341.1	110226.8	110536.5	107049.0	107756.8	109456.3
91310.7	10°	91343.9	89692.3	90094.1	90201.0	89861.8	87576.1	87598.2	88184.4
56003.7	12.5°	55804.7	54993.6	55196.4	55307.0	55996.4	55192.7	54057.2	53238.8
35310.6	15°	35074.7	34492.2	35683.0	36483.0	36320.8	35605.6	35071.0	34330.0
23472.8	17.5°	23255.3	24018.5	24022.1	24752.1	24825.8	24110.6	23697.7	23030.4
15266.4	20°	15211.1	15528.1	16188.0	16704.2	17002.8	16457.2	15963.2	15506.0
9518.9	22.5°	9518.9	10071.9	10484.8	11155.8	11428.6	11030.4	10680.2	10307.8
5942.9	25°	5843.3	6237.8	6580.7	7163.1	7535.5	7343.8	7023.0	6761.3
3837.8	27.5°	3896.8	4062.7	4232.3	4634.1	5021.2	4914.3	4785.3	4626.7
2706.0	30°	2746.5	2761.3	2941.9	3166.8	3424.9	3491.2	3432.3	3351.2
1987.1	32.5°	2024.0	2083.0	2167.7	2307.8	2481.1	2639.6	2610.1	2573.3
1518.9	35°	1563.1	1651.6	1721.7	1828.6	1920.7	2071.9	2097.7	2086.6
1249.8	37.5°	1275.6	1353.0	1423.0	1485.7	1563.1	1666.4	1747.5	1751.2
1032.3	40°	1058.1	1128.1	1220.3	1268.2	1323.5	1400.9	1500.5	1507.8
873.7	42.5°	892.2	958.5	1050.7	1109.7	1150.2	1224.0	1323.5	1338.3
748.4	45°	766.8	807.4	903.2	973.3	1013.8	1061.8	1168.7	1183.4
645.2	47.5°	667.3	707.8	766.8	866.4	903.2	947.5	1032.3	1058.1
571.4	50°	586.2	626.7	678.3	766.8	822.1	859.0	929.0	965.9
497.7	52.5°	519.8	560.4	615.7	685.7	748.4	781.6	847.9	895.9
405.5	55°	435.0	505.1	545.6	608.3	693.1	722.6	774.2	836.9
353.9	57.5°	379.7	438.7	497.7	549.3	634.1	671.0	722.6	781.6
280.2	60°	320.7	376.0	446.1	490.3	571.4	619.4	674.7	730.0
213.8	62.5°	254.4	328.1	376.0	438.7	516.1	578.8	623.0	678.3
165.9	65°	188.0	269.1	324.4	390.8	464.5	530.9	567.7	626.7
118.0	67.5°	136.4	210.1	276.5	339.2	409.2	475.6	512.4	564.1
73.7	70°	106.9	154.8	228.6	283.9	357.6	412.9	453.5	486.6
47.9	72.5°	62.7	118.0	184.3	247.0	313.4	350.2	379.7	409.2
22.1	75°	40.6	92.2	151.2	206.5	254.4	287.6	313.4	339.2
11.1	77.5°	25.8	66.4	121.7	173.3	195.4	235.9	258.1	272.8
7.4	80°	14.7	51.6	106.9	140.1	158.5	184.3	206.5	224.9
7.4	82.5°	11.1	44.2	88.5	118.0	118.0	147.5	158.5	158.5
3.7	85°	7.4	36.9	70.0	110.6	88.5	110.6	103.2	103.2
3.7	87.5°	7.4	25.8	33.2	47.9	40.6	47.9	47.9	55.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
336225.2
325463.9
310370.8
284944.1
253766.2
219642.6
186964.2
155299.7
128073.9
104147.6
84195.5
52741.1
33950.3
22864.5
15347.5
10108.8
6610.1
4534.6
3295.9
2543.8
2049.8
1725.3
1496.8
1327.2
1179.7
1061.8
969.6
895.9
840.6
785.3
744.7
704.1
637.8
567.7
497.7
416.6
339.2
265.4
202.8
147.5
99.5
55.3
0.0

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