

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: P637075

Luminaire Tested: **IFLD-M-SA4E-730-U-33-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637075  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4E-730-U-33-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor  
Light Source: (64) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32786 lumens  
Efficiency: N/A  
Efficacy: 104.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

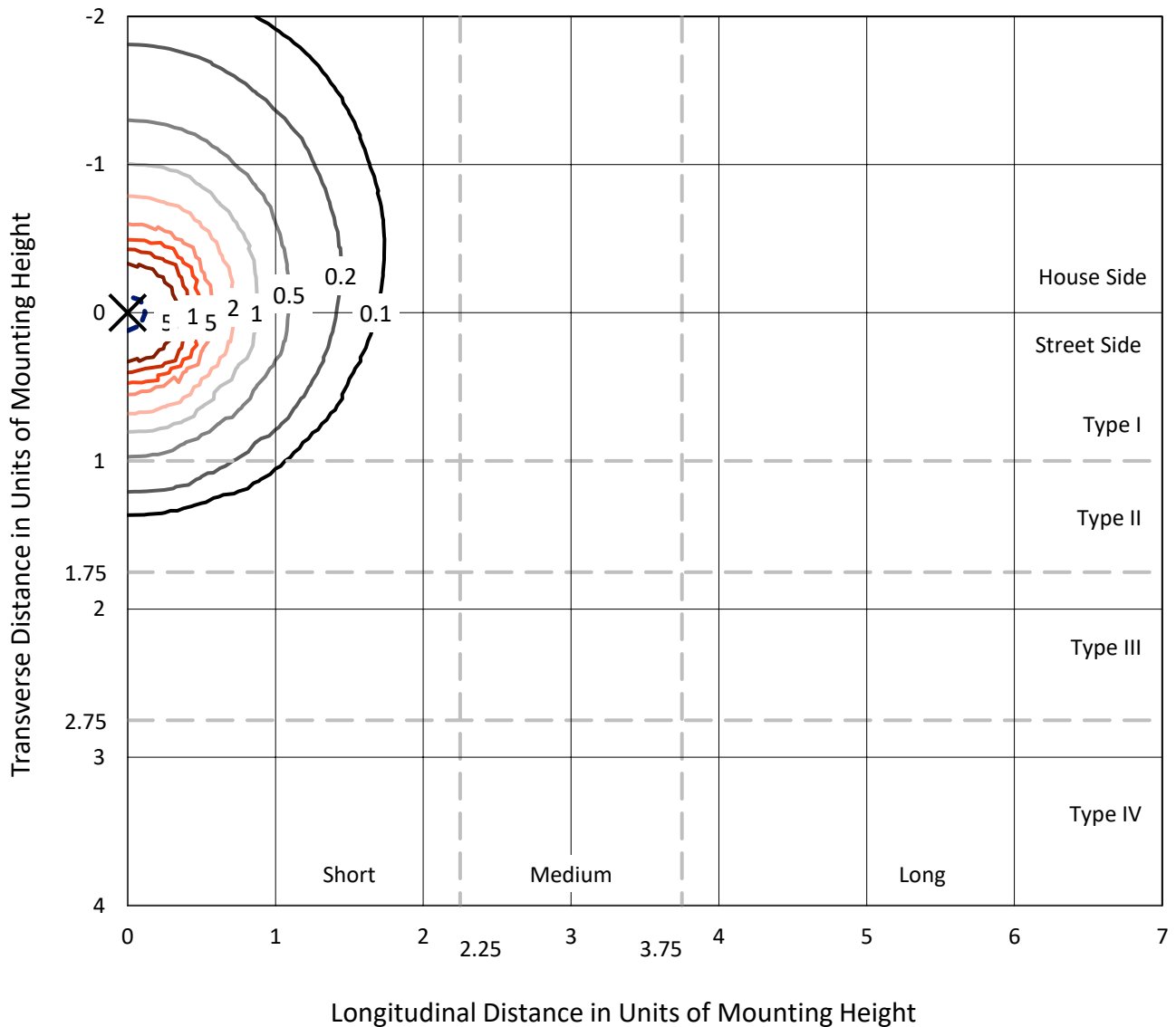
Input Watts (W): 314.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

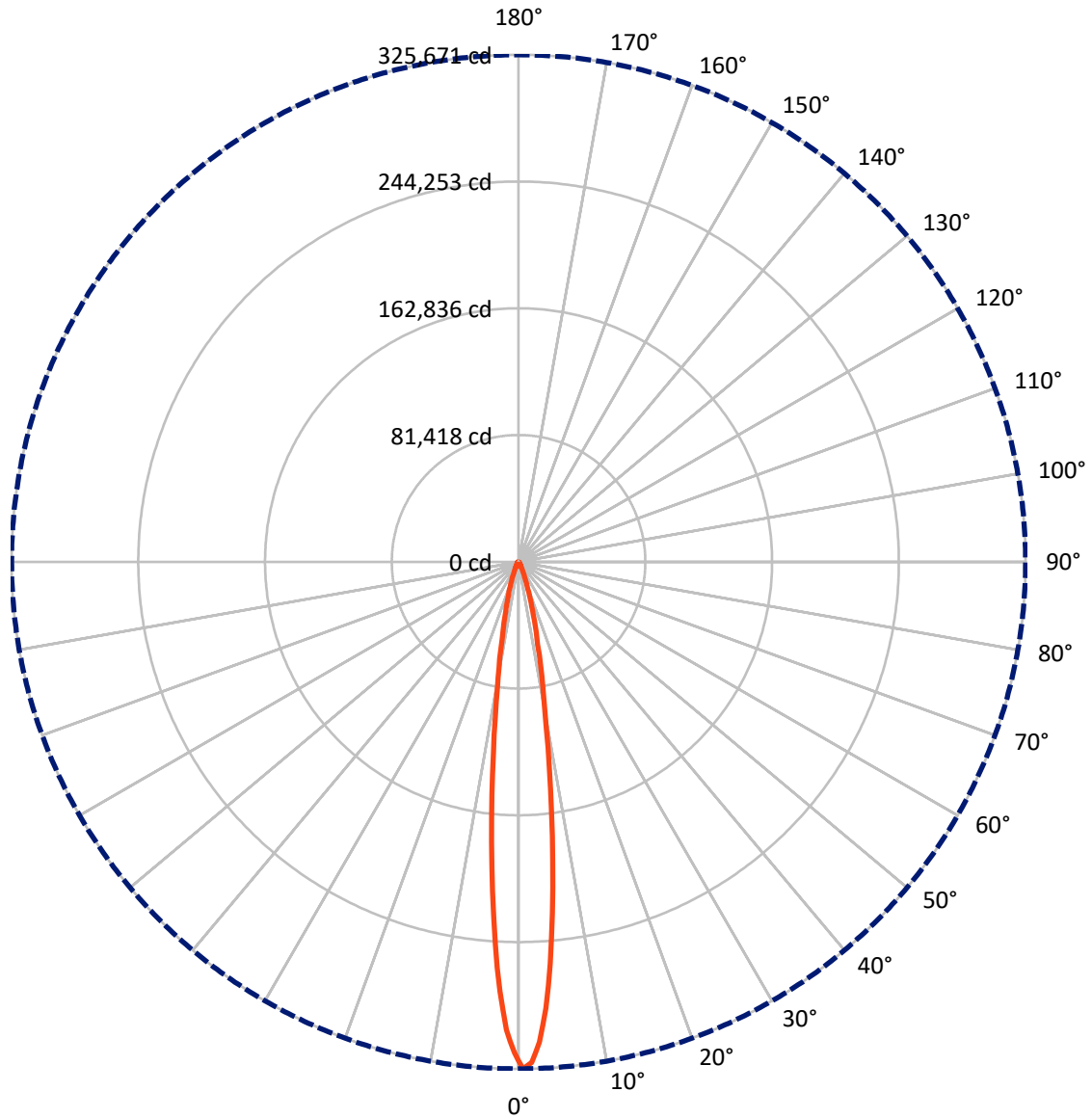
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 814.2 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
<b>House Side</b>	Lumens	16792.4	0.0	16792.4
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	15993.6	0.0	15993.6
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	32786.0	0.0	32786.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	16551.3	50.5
10°-20°	10596.1	32.3
20°-30°	3185.0	9.7
30°-40°	1037.0	3.2
40°-50°	603.4	1.8
50°-60°	400.8	1.2
60°-70°	241.2	0.7
70°-80°	124.0	0.4
80°-90°	47.1	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°	32786.0	100.0
0°-180°	32786.0	100.0

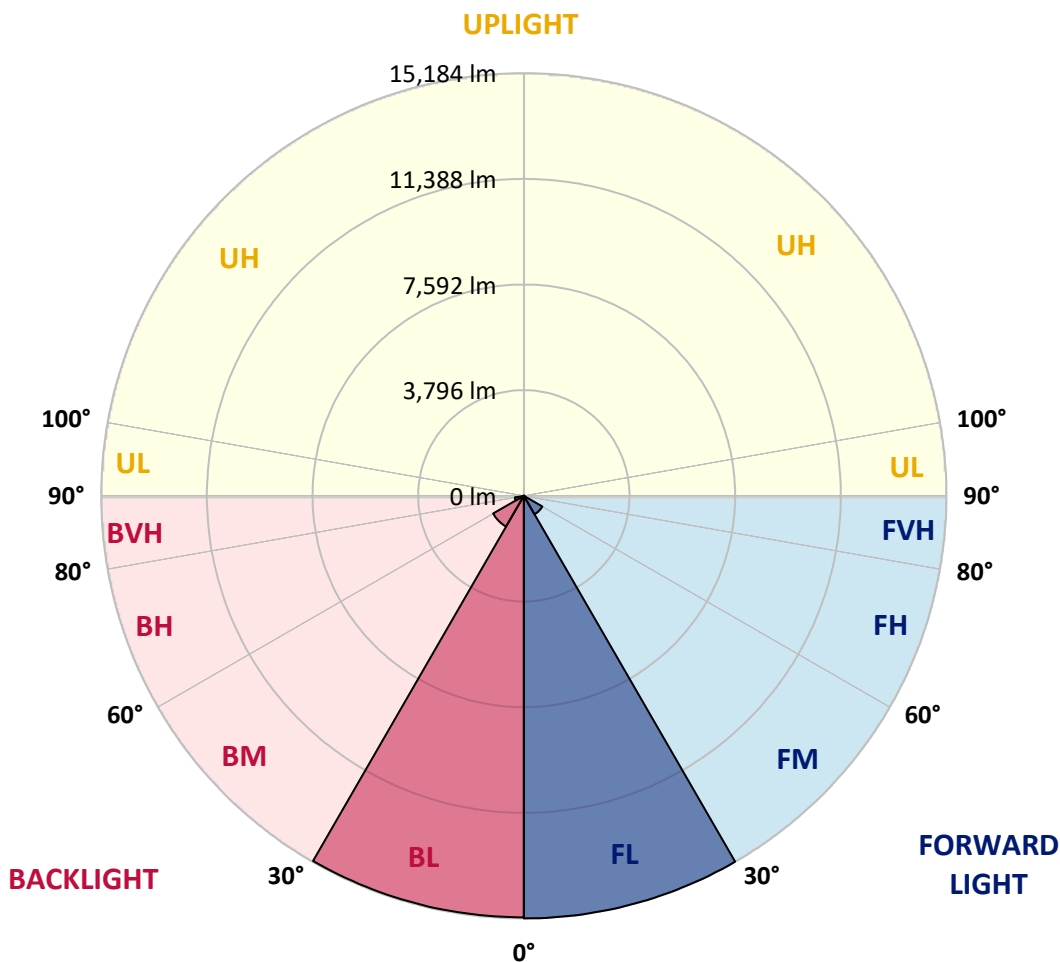


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	15184.2	46.3			
FM (30°-60°)	766.2	2.3			
FH (60°-80°)	36.1	0.1			G0/660
FVH (80°-90°)	7.1	0.0			G0/10
BL (0°-30°)	15148.2	46.2	B5		
BM (30°-60°)	1275.0	3.9	B2/2500		
BH (60°-80°)	329.2	1.0	B1/500		G0/660
BVH (80°-90°)	40.0	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°	325671.0	325671.0	325671.0	325671.0	325671.0	325671.0	325671.0	325671.0	325671.0	325671.0
1°	321771.6	320789.6	318254.2	320057.5	321643.0	321182.4	321150.2	320978.8	320739.6	322617.9
2°	308909.2	308273.5	304524.1	306070.3	308323.5	306680.9	307709.3	306805.9	306823.7	309066.3
3°	287226.6	287572.9	281591.6	284402.0	287533.7	283552.1	284787.6	287108.7	284676.9	283944.9
4°	259044.9	256038.2	252770.8	255627.5	256438.1	254120.6	256398.8	259241.3	255863.2	256013.2
5°	226870.9	224649.8	220782.5	222546.6	220536.1	221268.2	224682.0	225853.2	223496.4	220529.0
6°	193790.0	192211.6	187376.6	189919.1	189204.9	188790.7	193100.8	189529.9	190815.4	189019.2
7°	161194.7	158245.1	155870.4	158305.8	158462.9	157216.7	162812.3	162162.4	159823.4	159280.7
8°	133552.2	130609.8	128599.4	130413.4	131598.9	129642.1	132273.8	134002.2	132173.9	132338.1
9°	107716.7	107198.9	104402.8	106773.9	108063.0	105966.9	108880.8	109505.7	107795.2	108627.2
10°	88444.4	87840.9	85609.1	86569.7	88705.1	86205.5	89001.5	89205.0	87840.9	88230.2
12.5°	54656.4	54413.6	54352.9	54492.2	54463.6	54906.4	55620.6	54806.4	54699.3	53353.0
15°	35327.1	35687.7	35316.4	36030.5	36134.1	36551.9	36116.2	35459.2	34205.8	33584.5
17.5°	22046.8	22507.5	23143.1	24189.4	25235.7	25357.1	24778.6	24007.3	23400.2	22736.0
20°	12683.9	12908.9	12812.4	14065.8	16772.6	17508.2	16761.9	15951.3	15219.2	14547.9
22.5°	7881.0	7798.9	7948.9	8370.2	9252.2	11526.9	10916.3	10105.7	9573.6	9020.1
25°	4831.4	4920.7	4863.6	5095.7	5492.1	6456.2	6595.5	6245.5	5974.1	5688.5
27.5°	3110.3	3110.3	3135.3	3263.8	3535.2	3503.1	4245.8	3974.4	3828.0	3688.8
30°	2160.4	2167.5	2167.5	2242.5	2303.2	2196.1	2388.9	2738.9	2671.0	2563.9
32.5°	1603.3	1624.8	1642.6	1681.9	1631.9	1517.6	1564.1	1971.1	1931.9	1892.6
35°	1221.3	1239.1	1282.0	1303.4	1232.0	1160.5	1117.7	1449.8	1467.6	1456.9
37.5°	889.2	899.9	978.4	1060.6	978.4	914.2	889.2	1114.1	1199.8	1189.1
40°	682.0	685.6	699.9	792.7	792.7	742.8	749.9	832.0	982.0	982.0
42.5°	585.6	585.6	599.9	585.6	589.2	642.8	660.6	671.3	832.0	832.0
45°	507.1	507.1	514.2	478.5	442.8	553.5	567.8	571.3	699.9	717.8
47.5°	424.9	424.9	439.2	392.8	374.9	439.2	478.5	489.2	603.5	617.8
50°	314.2	317.8	360.7	321.4	332.1	339.2	414.2	421.4	510.6	542.8
52.5°	210.7	210.7	217.8	250.0	289.2	278.5	335.7	360.7	407.1	449.9
55°	171.4	171.4	167.8	160.7	214.3	232.1	246.4	300.0	332.1	385.7
57.5°	117.8	125.0	114.3	132.1	139.3	175.0	185.7	235.7	253.5	325.0
60°	14.3	17.9	25.0	96.4	92.8	117.8	139.3	185.7	207.1	250.0
62.5°	3.6	3.6	7.1	17.9	64.3	78.6	110.7	128.6	150.0	192.8
65°	0.0	0.0	3.6	7.1	14.3	42.9	57.1	75.0	107.1	135.7
67.5°	0.0	0.0	3.6	7.1	7.1	17.9	28.6	46.4	57.1	100.0
70°	0.0	0.0	3.6	7.1	7.1	14.3	17.9	21.4	39.3	53.6
72.5°	0.0	0.0	3.6	7.1	10.7	14.3	17.9	17.9	17.9	35.7
75°	0.0	0.0	3.6	7.1	10.7	14.3	17.9	17.9	14.3	14.3
77.5°	0.0	0.0	3.6	7.1	14.3	17.9	21.4	17.9	10.7	10.7
80°	0.0	0.0	3.6	10.7	17.9	25.0	28.6	21.4	10.7	7.1
82.5°	0.0	0.0	7.1	14.3	21.4	28.6	39.3	32.1	14.3	7.1
85°	0.0	0.0	3.6	10.7	21.4	28.6	57.1	39.3	17.9	3.6
87.5°	0.0	0.0	0.0	3.6	3.6	7.1	21.4	14.3	7.1	3.6
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°
325671.0	0°	325671.0	325671.0	325671.0	325671.0	325671.0	325671.0	325671.0	325671.0
320450.3	1°	322689.3	322914.3	322178.7	323317.8	322917.9	320575.3	319800.4	318882.7
307748.6	2°	306805.9	307952.1	308009.3	309273.4	309255.5	306523.8	305677.5	307238.0
285430.4	3°	284566.2	285901.7	284698.3	286944.5	286269.5	282955.7	282095.1	283866.3
257198.7	4°	256431.0	256177.4	255763.2	254484.8	256059.6	253799.2	252095.9	254499.1
224464.2	5°	224014.2	223450.0	222643.0	222264.5	223435.7	221989.5	218486.4	221996.6
192268.8	6°	192504.5	190076.2	189958.4	189747.7	189865.6	185816.1	186059.0	188672.9
157413.1	7°	159077.1	159523.5	158612.9	160073.4	158959.3	156216.8	155159.8	157913.0
133059.4	8°	132131.0	131566.8	130870.5	133052.3	131120.4	129320.7	128088.7	130263.4
108762.9	9°	108559.4	107584.5	106877.5	106766.8	107066.7	103688.7	104374.3	106020.5
88444.4	10°	88476.6	86876.8	87266.0	87369.6	87041.1	84827.1	84848.5	85416.3
54245.8	12.5°	54052.9	53267.3	53463.7	53570.9	54238.6	53460.2	52360.3	51567.6
34202.2	15°	33973.7	33409.5	34562.9	35337.8	35180.7	34487.9	33970.1	33252.4
22736.0	17.5°	22525.3	23264.5	23268.1	23975.1	24046.5	23353.8	22953.8	22307.5
14787.2	20°	14733.6	15040.7	15679.9	16179.8	16469.1	15940.6	15462.1	15019.3
9220.1	22.5°	9220.1	9755.7	10155.7	10805.6	11069.8	10684.2	10344.9	9984.3
5756.3	25°	5659.9	6042.0	6374.1	6938.3	7299.0	7113.3	6802.6	6549.1
3717.3	27.5°	3774.5	3935.1	4099.4	4488.6	4863.6	4760.0	4635.0	4481.5
2621.1	30°	2660.3	2674.6	2849.6	3067.4	3317.4	3381.7	3324.5	3246.0
1924.7	32.5°	1960.4	2017.6	2099.7	2235.4	2403.2	2556.8	2528.2	2492.5
1471.2	35°	1514.1	1599.8	1667.6	1771.2	1860.4	2006.9	2031.9	2021.1
1210.5	37.5°	1235.5	1310.5	1378.4	1439.1	1514.1	1614.1	1692.6	1696.2
999.9	40°	1024.9	1092.7	1182.0	1228.4	1282.0	1356.9	1453.4	1460.5
846.3	42.5°	864.2	928.4	1017.7	1074.8	1114.1	1185.5	1282.0	1296.2
724.9	45°	742.8	782.0	874.9	942.7	982.0	1028.4	1132.0	1146.3
624.9	47.5°	646.3	685.6	742.8	839.2	874.9	917.7	999.9	1024.9
553.5	50°	567.8	607.1	657.0	742.8	796.3	832.0	899.9	935.6
482.1	52.5°	503.5	542.8	596.3	664.2	724.9	757.0	821.3	867.7
392.8	55°	421.4	489.2	528.5	589.2	671.3	699.9	749.9	810.6
342.8	57.5°	367.8	424.9	482.1	532.1	614.2	649.9	699.9	757.0
271.4	60°	310.7	364.2	432.1	474.9	553.5	599.9	653.5	707.0
207.1	62.5°	246.4	317.8	364.2	424.9	499.9	560.6	603.5	657.0
160.7	65°	182.1	260.7	314.2	378.5	449.9	514.2	549.9	607.1
114.3	67.5°	132.1	203.5	267.8	328.5	396.4	460.6	496.4	546.4
71.4	70°	103.6	150.0	221.4	275.0	346.4	399.9	439.2	471.4
46.4	72.5°	60.7	114.3	178.5	239.3	303.5	339.2	367.8	396.4
21.4	75°	39.3	89.3	146.4	200.0	246.4	278.5	303.5	328.5
10.7	77.5°	25.0	64.3	117.8	167.8	189.3	228.5	250.0	264.2
7.1	80°	14.3	50.0	103.6	135.7	153.5	178.5	200.0	217.8
7.1	82.5°	10.7	42.9	85.7	114.3	114.3	142.8	153.5	153.5
3.6	85°	7.1	35.7	67.8	107.1	85.7	107.1	100.0	100.0
3.6	87.5°	7.1	25.0	32.1	46.4	39.3	46.4	46.4	53.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
325671.0  
315247.5  
300628.2  
275999.6  
245800.4  
212748.0  
181095.4  
150424.8  
124053.6  
100878.4  
81552.6  
51085.5  
32884.6  
22146.8  
14865.7  
9791.4  
6402.7  
4392.2  
3192.4  
2463.9  
1985.4  
1671.2  
1449.8  
1285.5  
1142.7  
1028.4  
939.2  
867.7  
814.2  
760.6  
721.3  
682.0  
617.8  
549.9  
482.1  
403.5  
328.5  
257.1  
196.4  
142.8  
96.4  
53.6  
0.0

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