

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: P637104

Luminaire Tested: **IFLD-M-SA4E-735-U-33-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637104  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4E-735-U-33-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor  
Light Source: (64) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35511.5 lumens  
Efficiency: N/A  
Efficacy: 112.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

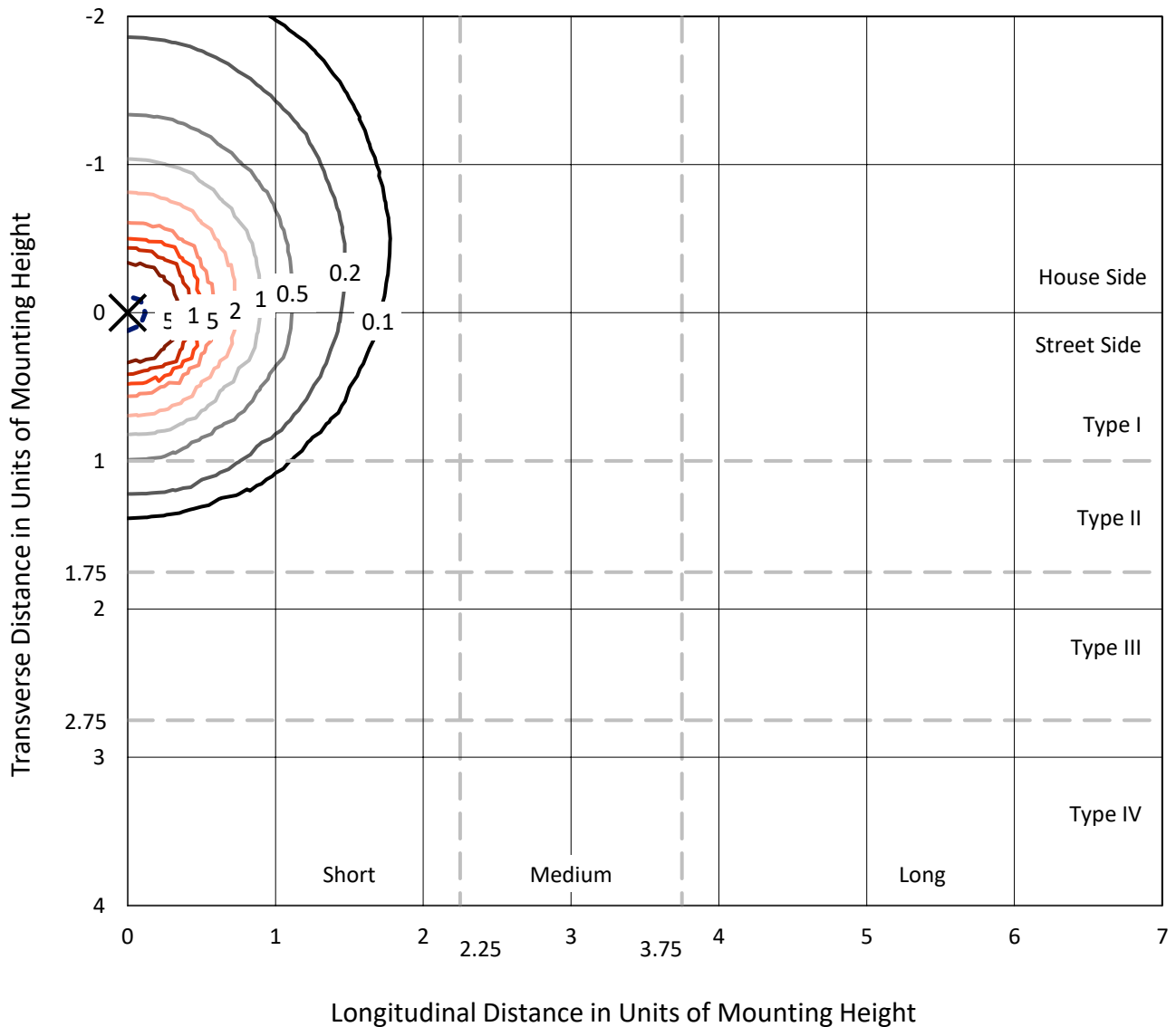
Input Watts (W): 314.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

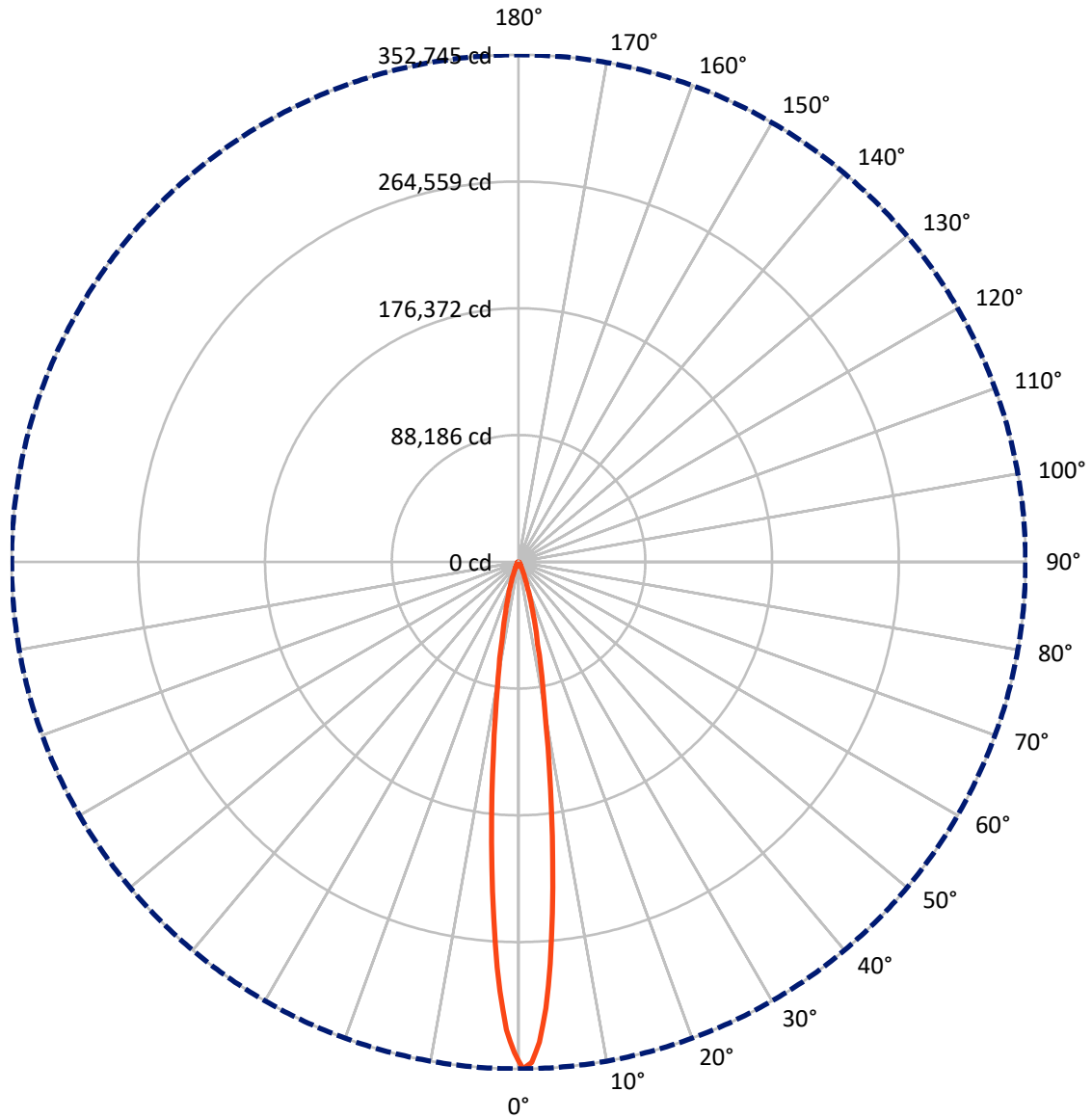
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 881.9 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
<b>House Side</b>	Lumens	18188.4	0.0	18188.4
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	17323.2	0.0	17323.2
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	35511.5	0.0	35511.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	17927.3	50.5
10°-20°	11477.0	32.3
20°-30°	3449.8	9.7
30°-40°	1123.2	3.2
40°-50°	653.5	1.8
50°-60°	434.1	1.2
60°-70°	261.3	0.7
70°-80°	134.3	0.4
80°-90°	51.0	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°	35511.5	100.0
0°-180°	35511.5	100.0

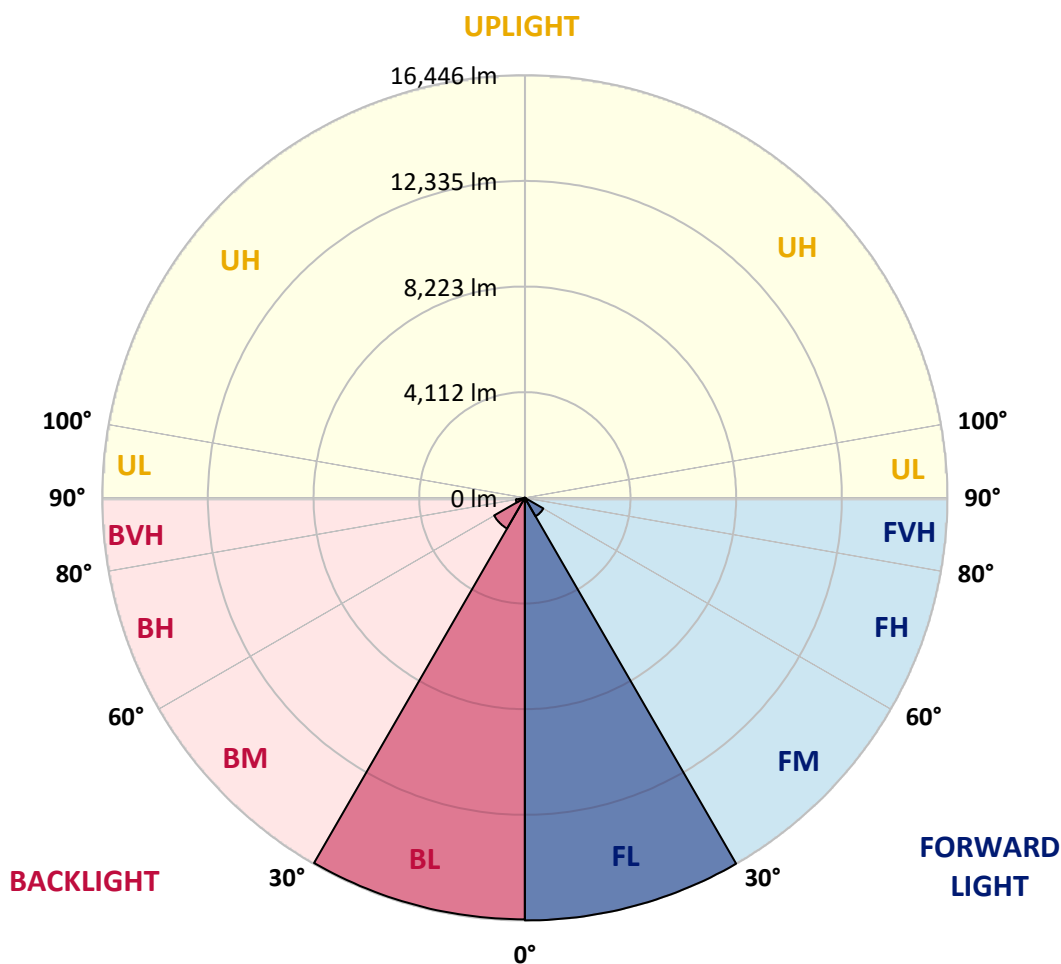


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	16446.5	46.3			
FM (30°-60°)	829.9	2.3			
FH (60°-80°)	39.1	0.1			G0/660
FVH (80°-90°)	7.7	0.0			G0/10
BL (0°-30°)	16407.5	46.2	B5		
BM (30°-60°)	1381.0	3.9	B2/2500		
BH (60°-80°)	356.5	1.0	B1/500		G0/660
BVH (80°-90°)	43.3	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°	352744.7	352744.7	352744.7	352744.7	352744.7	352744.7	352744.7	352744.7	352744.7	352744.7
1°	348521.1	347457.5	344711.3	346664.6	348381.9	347882.9	347848.1	347662.5	347403.3	349437.8
2°	334589.4	333900.9	329839.8	331514.5	333955.1	332175.9	333289.8	332311.3	332330.6	334759.6
3°	311104.3	311479.4	305000.9	308044.9	311436.9	307124.3	308462.6	310976.6	308342.7	307549.8
4°	280579.8	277323.1	273784.1	276878.4	277756.3	275246.2	277713.8	280792.5	277133.6	277296.1
5°	245731.2	243325.4	239136.6	241047.3	238869.8	239662.6	243360.2	244628.9	242076.1	238862.0
6°	209900.1	208190.6	202953.6	205707.5	204933.9	204485.3	209153.7	205285.9	206678.3	204732.8
7°	174595.1	171400.3	168828.3	171466.1	171636.3	170286.4	176347.2	175643.3	173109.9	172522.0
8°	144654.7	141467.6	139290.1	141254.9	142539.0	140419.5	143270.0	145142.0	143161.7	143339.6
9°	116671.4	116110.5	113082.1	115650.3	117046.5	114776.1	117932.2	118609.1	116756.4	117657.6
10°	95797.0	95143.3	92726.0	93766.4	96079.3	93371.9	96400.4	96620.8	95143.3	95564.9
12.5°	59200.1	58937.1	58871.4	59022.2	58991.3	59470.9	60244.4	59362.6	59246.5	57788.4
15°	38263.9	38654.5	38252.3	39025.8	39138.0	39590.5	39118.6	38407.0	37049.4	36376.4
17.5°	23879.6	24378.6	25067.0	26200.3	27333.5	27465.1	26838.5	26003.0	25345.5	24626.1
20°	13738.3	13982.0	13877.6	15235.2	18166.9	18963.7	18155.3	17277.3	16484.4	15757.3
22.5°	8536.2	8447.2	8609.7	9066.1	10021.4	12485.2	11823.8	10945.8	10369.5	9770.0
25°	5233.1	5329.8	5267.9	5519.3	5948.6	6992.9	7143.8	6764.7	6470.8	6161.4
27.5°	3368.8	3368.8	3395.9	3535.1	3829.1	3794.3	4598.8	4304.8	4146.3	3995.4
30°	2340.0	2347.7	2347.7	2429.0	2494.7	2378.7	2587.5	2966.6	2893.1	2777.1
32.5°	1736.6	1759.8	1779.2	1821.7	1767.6	1643.8	1694.1	2135.0	2092.5	2049.9
35°	1322.8	1342.1	1388.5	1411.7	1334.4	1257.0	1210.6	1570.3	1589.7	1578.1
37.5°	963.1	974.7	1059.8	1148.7	1059.8	990.1	963.1	1206.7	1299.6	1288.0
40°	738.7	742.6	758.1	858.6	858.6	804.5	812.2	901.2	1063.6	1063.6
42.5°	634.3	634.3	649.8	634.3	638.2	696.2	715.5	727.1	901.2	901.2
45°	549.2	549.2	557.0	518.3	479.6	599.5	615.0	618.8	758.1	777.4
47.5°	460.3	460.3	475.7	425.5	406.1	475.7	518.3	529.9	653.7	669.1
50°	340.4	344.2	390.6	348.1	359.7	367.4	448.7	456.4	553.1	587.9
52.5°	228.2	228.2	235.9	270.7	313.3	301.7	363.6	390.6	440.9	487.3
55°	185.7	185.7	181.8	174.0	232.1	251.4	266.9	324.9	359.7	417.7
57.5°	127.6	135.4	123.8	143.1	150.8	189.5	201.1	255.3	274.6	352.0
60°	15.5	19.3	27.1	104.4	100.6	127.6	150.8	201.1	224.3	270.7
62.5°	3.9	3.9	7.7	19.3	69.6	85.1	119.9	139.2	162.4	208.9
65°	0.0	0.0	3.9	7.7	15.5	46.4	61.9	81.2	116.0	147.0
67.5°	0.0	0.0	3.9	7.7	7.7	19.3	30.9	50.3	61.9	108.3
70°	0.0	0.0	3.9	7.7	7.7	15.5	19.3	23.2	42.5	58.0
72.5°	0.0	0.0	3.9	7.7	11.6	15.5	19.3	19.3	19.3	38.7
75°	0.0	0.0	3.9	7.7	11.6	15.5	19.3	19.3	15.5	15.5
77.5°	0.0	0.0	3.9	7.7	15.5	19.3	23.2	19.3	11.6	11.6
80°	0.0	0.0	3.9	11.6	19.3	27.1	30.9	23.2	11.6	7.7
82.5°	0.0	0.0	7.7	15.5	23.2	30.9	42.5	34.8	15.5	7.7
85°	0.0	0.0	3.9	11.6	23.2	30.9	61.9	42.5	19.3	3.9
87.5°	0.0	0.0	0.0	3.9	3.9	7.7	23.2	15.5	7.7	3.9
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°
352744.7	0°	352744.7	352744.7	352744.7	352744.7	352744.7	352744.7	352744.7	352744.7
347090.0	1°	349515.1	349758.8	348962.0	350195.8	349762.7	347225.4	346386.1	345392.1
333332.4	2°	332311.3	333552.8	333614.7	334983.9	334964.6	332005.7	331089.1	332779.3
309158.8	3°	308222.8	309669.3	308365.9	310798.7	310067.7	306478.4	305546.3	307464.7
278580.2	4°	277748.6	277474.0	277025.3	275640.7	277346.4	274898.1	273053.1	275656.1
243124.3	5°	242637.0	242025.9	241151.7	240741.8	242010.4	240443.9	236649.7	240451.7
208252.5	6°	208507.7	205877.7	205750.0	205521.8	205649.5	201263.4	201526.4	204357.6
170499.1	7°	172301.5	172785.0	171798.7	173380.6	172173.9	169203.4	168058.6	171040.6
144120.9	8°	143115.3	142504.2	141750.0	144113.2	142020.7	140071.4	138737.0	141092.5
117804.6	9°	117584.1	116528.2	115762.4	115642.5	115967.4	112308.5	113051.1	114834.2
95797.0	10°	95831.8	94099.0	94520.6	94632.8	94277.0	91878.9	91902.1	92517.1
58755.3	12.5°	58546.5	57695.6	57908.3	58024.3	58747.6	57904.4	56713.1	55854.5
37045.5	15°	36798.0	36186.9	37436.2	38275.5	38105.3	37354.9	36794.1	36016.7
24626.1	17.5°	24397.9	25198.5	25202.4	25968.2	26045.6	25295.2	24862.0	24162.0
16016.4	20°	15958.4	16291.1	16983.4	17524.9	17838.2	17265.7	16747.5	16267.9
9986.6	22.5°	9986.6	10566.8	10999.9	11703.9	11990.1	11572.4	11204.9	10814.3
6234.8	25°	6130.4	6544.3	6904.0	7515.1	7905.7	7704.6	7368.1	7093.5
4026.4	27.5°	4088.2	4262.3	4440.2	4861.8	5267.9	5155.7	5020.4	4854.1
2838.9	30°	2881.5	2897.0	3086.5	3322.4	3593.2	3662.8	3600.9	3515.8
2084.7	32.5°	2123.4	2185.3	2274.3	2421.2	2603.0	2769.3	2738.4	2699.7
1593.5	35°	1639.9	1732.8	1806.2	1918.4	2015.1	2173.7	2200.8	2189.2
1311.2	37.5°	1338.2	1419.5	1493.0	1558.7	1639.9	1748.2	1833.3	1837.2
1083.0	40°	1110.1	1183.5	1280.2	1330.5	1388.5	1469.8	1574.2	1581.9
916.7	42.5°	936.0	1005.6	1102.3	1164.2	1206.7	1284.1	1388.5	1404.0
785.2	45°	804.5	847.0	947.6	1021.1	1063.6	1113.9	1226.1	1241.6
676.9	47.5°	700.1	742.6	804.5	908.9	947.6	994.0	1083.0	1110.1
599.5	50°	615.0	657.5	711.7	804.5	862.5	901.2	974.7	1013.4
522.1	52.5°	545.4	587.9	645.9	719.4	785.2	820.0	889.6	939.9
425.5	55°	456.4	529.9	572.4	638.2	727.1	758.1	812.2	878.0
371.3	57.5°	398.4	460.3	522.1	576.3	665.3	703.9	758.1	820.0
294.0	60°	336.5	394.5	468.0	514.4	599.5	649.8	707.8	765.8
224.3	62.5°	266.9	344.2	394.5	460.3	541.5	607.2	653.7	711.7
174.0	65°	197.3	282.3	340.4	410.0	487.3	557.0	595.6	657.5
123.8	67.5°	143.1	220.5	290.1	355.8	429.3	498.9	537.6	591.8
77.4	70°	112.2	162.4	239.8	297.8	375.2	433.2	475.7	510.5
50.3	72.5°	65.8	123.8	193.4	259.1	328.8	367.4	398.4	429.3
23.2	75°	42.5	96.7	158.6	216.6	266.9	301.7	328.8	355.8
11.6	77.5°	27.1	69.6	127.6	181.8	205.0	247.5	270.7	286.2
7.7	80°	15.5	54.1	112.2	147.0	166.3	193.4	216.6	235.9
7.7	82.5°	11.6	46.4	92.8	123.8	123.8	154.7	166.3	166.3
3.9	85°	7.7	38.7	73.5	116.0	92.8	116.0	108.3	108.3
3.9	87.5°	7.7	27.1	34.8	50.3	42.5	50.3	50.3	58.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
352744.7  
341454.7  
325620.0  
298944.0  
266234.2  
230434.1  
196150.2  
162929.9  
134366.4  
109264.6  
88332.2  
55332.4  
35618.3  
23987.9  
16101.5  
10605.4  
6934.9  
4757.4  
3457.8  
2668.8  
2150.5  
1810.1  
1570.3  
1392.4  
1237.7  
1113.9  
1017.2  
939.9  
881.9  
823.8  
781.3  
738.7  
669.1  
595.6  
522.1  
437.1  
355.8  
278.5  
212.7  
154.7  
104.4  
58.0  
0.0

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