

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: P637164

Luminaire Tested: **IFLD-L-SA7B-750-U-33-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637164  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7B-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: 36226.6 lumens  
Efficiency: N/A  
Efficacy: 128.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

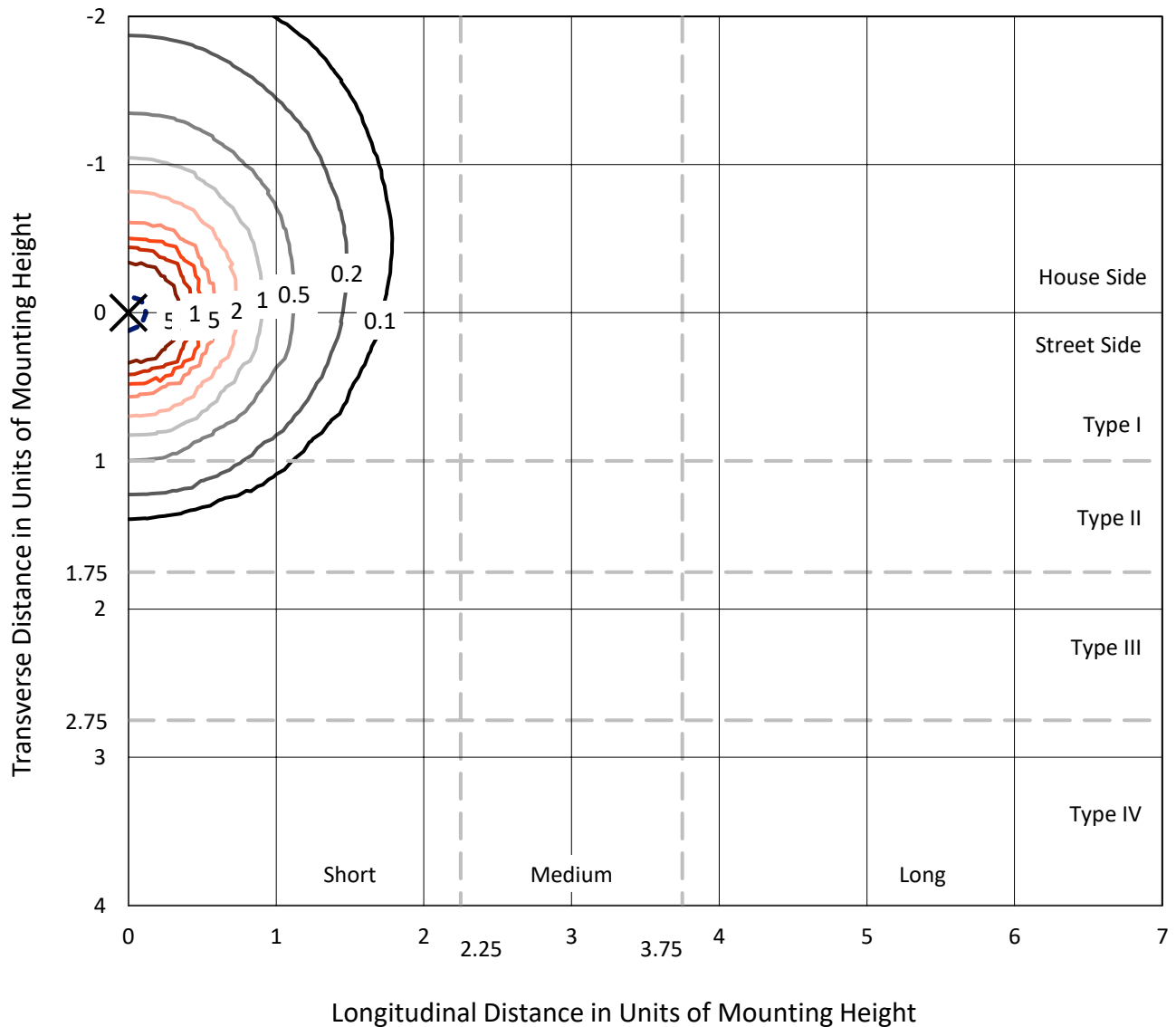
Input Watts (W): 281  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

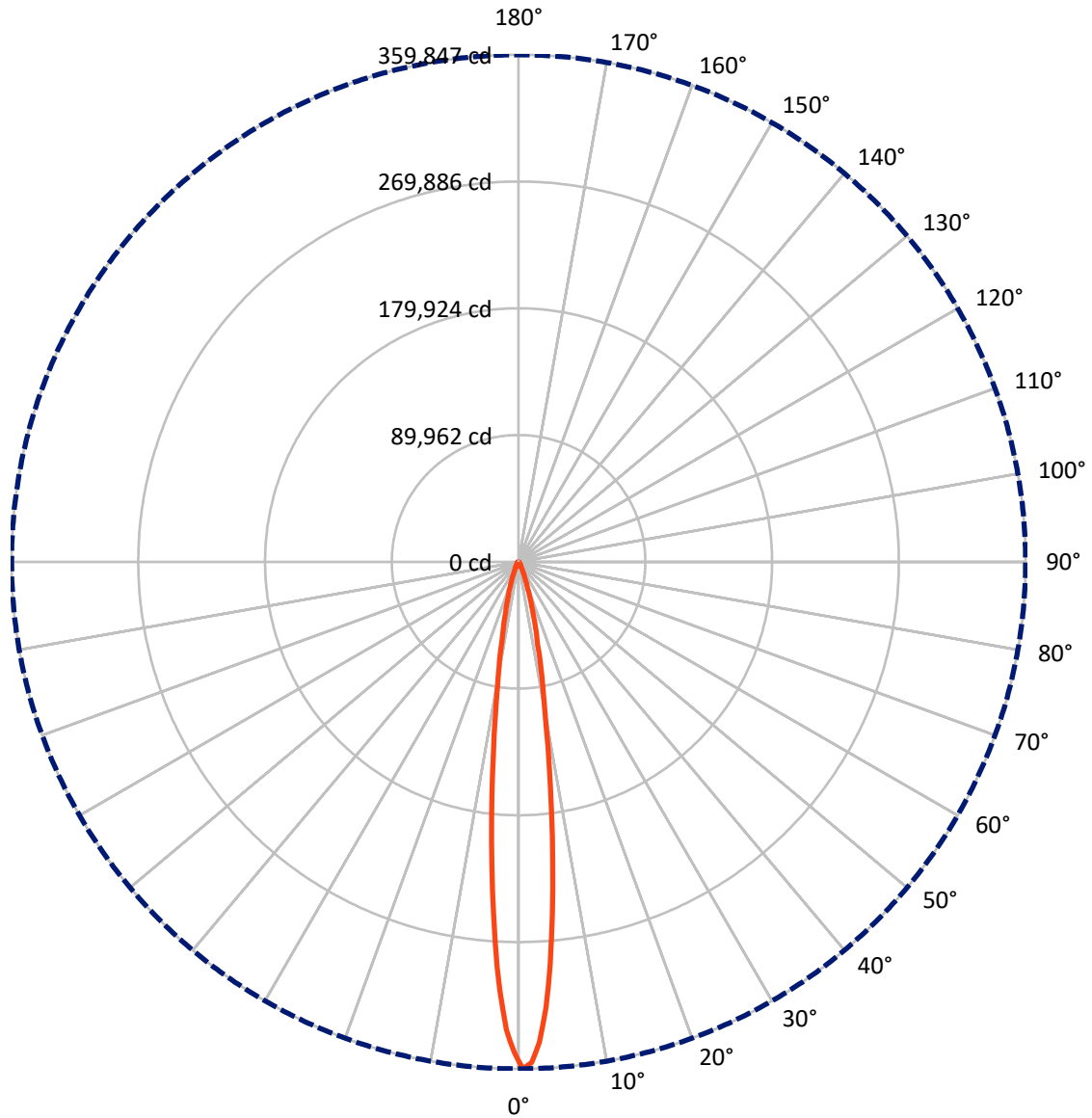
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 899.6 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
<b>House Side</b>	Lumens	18554.6	0.0	18554.6
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	17672.0	0.0	17672.0
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	36226.6	0.0	36226.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	18288.3	50.5
10°-20°	11708.1	32.3
20°-30°	3519.2	9.7
30°-40°	1145.9	3.2
40°-50°	666.7	1.8
50°-60°	442.8	1.2
60°-70°	266.6	0.7
70°-80°	137.0	0.4
80°-90°	52.1	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°	36226.6	100.0
0°-180°	36226.6	100.0

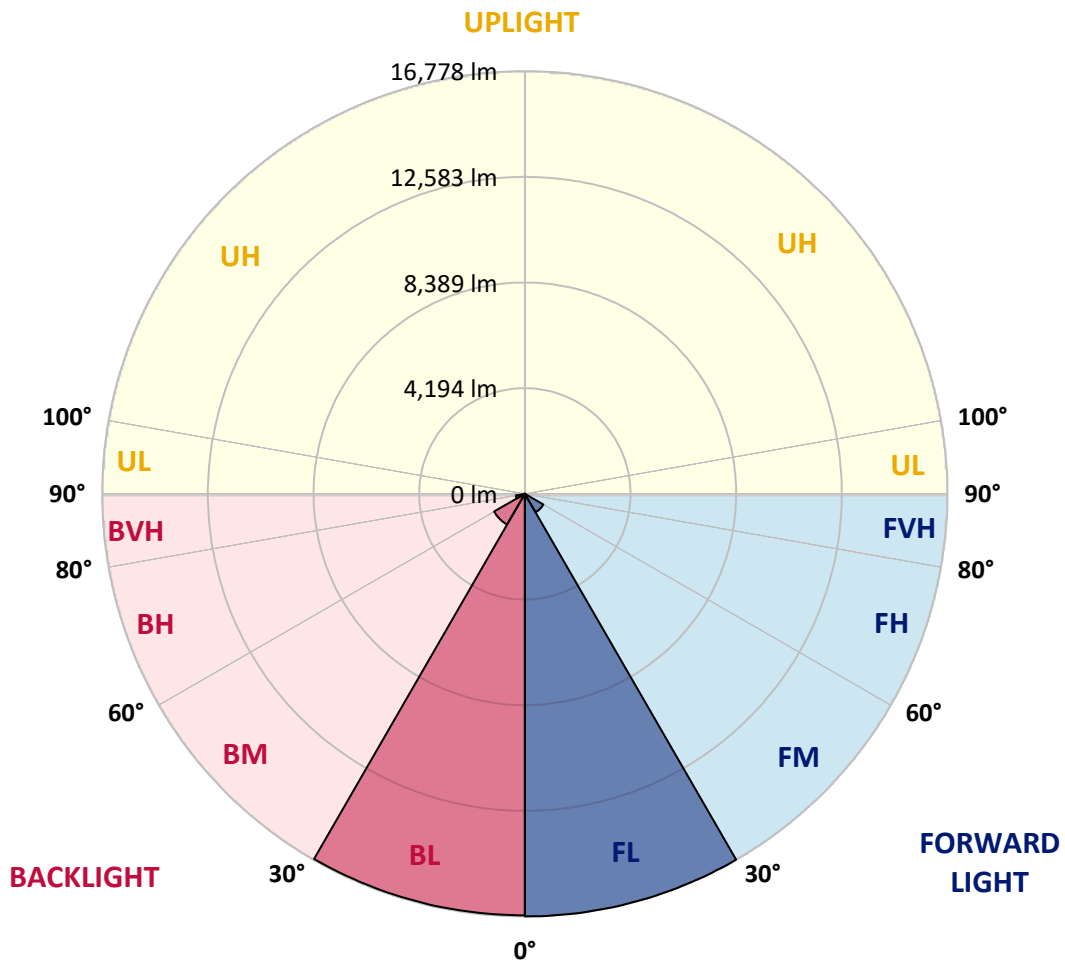


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	16777.7	46.3			
FM (30°-60°)	846.6	2.3			
FH (60°-80°)	39.8	0.1			G0/660
FVH (80°-90°)	7.8	0.0			G0/10
BL (0°-30°)	16737.9	46.2	B5		
BM (30°-60°)	1408.8	3.9	B2/2500		
BH (60°-80°)	363.7	1.0	B1/500		G0/660
BVH (80°-90°)	44.2	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°	359847.4	359847.4	359847.4	359847.4	359847.4	359847.4	359847.4	359847.4	359847.4	359847.4
1°	355538.7	354453.7	351652.3	353644.8	355396.7	354887.7	354852.2	354662.8	354398.5	356473.9
2°	341326.5	340624.2	336481.2	338189.7	340679.4	338864.4	340000.8	339002.5	339022.2	341500.1
3°	317368.5	317751.2	311142.3	314247.5	317707.8	313308.4	314673.6	317238.3	314551.3	313742.5
4°	286229.4	282907.2	279296.9	282453.4	283349.1	280788.4	283305.7	286446.4	282713.8	282879.6
5°	250679.1	248224.9	243951.8	245900.9	243679.5	244488.4	248260.4	249554.6	246950.5	243671.6
6°	214126.6	212382.6	207040.2	209849.5	209060.4	208602.7	213365.1	209419.4	210839.9	208855.2
7°	178110.7	174851.6	172227.7	174918.6	175092.2	173715.2	179898.1	179179.9	176595.5	175995.8
8°	147567.4	144316.2	142094.8	144099.2	145409.1	143246.9	146154.8	148064.5	146044.4	146225.9
9°	119020.6	118448.5	115359.0	117978.9	119403.3	117087.2	120306.9	120997.4	119107.4	120026.7
10°	97725.9	97059.1	94593.1	95654.4	98013.9	95252.0	98341.4	98566.3	97059.1	97489.2
12.5°	60392.1	60123.8	60056.8	60210.6	60179.1	60668.3	61457.5	60557.9	60439.5	58952.0
15°	39034.3	39432.8	39022.5	39811.6	39926.1	40387.7	39906.3	39180.3	37795.4	37108.9
17.5°	24360.5	24869.4	25571.8	26727.8	27883.9	28018.1	27378.9	26526.6	25855.9	25122.0
20°	14015.0	14263.5	14157.0	15541.9	18532.7	19345.5	18520.9	17625.2	16816.4	16074.6
22.5°	8708.1	8617.3	8783.0	9248.6	10223.2	12736.6	12061.9	11166.2	10578.3	9966.7
25°	5338.5	5437.1	5374.0	5630.4	6068.4	7133.7	7287.6	6900.9	6601.1	6285.4
27.5°	3436.7	3436.7	3464.3	3606.3	3906.2	3870.7	4691.4	4391.5	4229.7	4075.9
30°	2387.1	2395.0	2395.0	2477.9	2544.9	2426.6	2639.6	3026.3	2951.3	2833.0
32.5°	1771.6	1795.3	1815.0	1858.4	1803.2	1676.9	1728.2	2178.0	2134.6	2091.2
35°	1349.4	1369.1	1416.5	1440.2	1361.2	1282.3	1235.0	1601.9	1621.7	1609.8
37.5°	982.5	994.3	1081.1	1171.9	1081.1	1010.1	982.5	1231.0	1325.7	1313.9
40°	753.6	757.6	773.3	875.9	875.9	820.7	828.6	919.3	1085.1	1085.1
42.5°	647.1	647.1	662.9	647.1	651.0	710.2	729.9	741.8	919.3	919.3
45°	560.3	560.3	568.2	528.7	489.3	611.6	627.4	631.3	773.3	793.1
47.5°	469.5	469.5	485.3	434.0	414.3	485.3	528.7	540.6	666.8	682.6
50°	347.2	351.2	398.5	355.1	366.9	374.8	457.7	465.6	564.2	599.7
52.5°	232.8	232.8	240.7	276.2	319.6	307.8	370.9	398.5	449.8	497.2
55°	189.4	189.4	185.4	177.6	236.7	256.5	272.2	331.4	366.9	426.1
57.5°	130.2	138.1	126.3	146.0	153.9	193.3	205.2	260.4	280.1	359.1
60°	15.8	19.7	27.6	106.5	102.6	130.2	153.9	205.2	228.8	276.2
62.5°	3.9	3.9	7.9	19.7	71.0	86.8	122.3	142.0	165.7	213.1
65°	0.0	0.0	3.9	7.9	15.8	47.3	63.1	82.9	118.4	149.9
67.5°	0.0	0.0	3.9	7.9	7.9	19.7	31.6	51.3	63.1	110.5
70°	0.0	0.0	3.9	7.9	7.9	15.8	19.7	23.7	43.4	59.2
72.5°	0.0	0.0	3.9	7.9	11.8	15.8	19.7	19.7	19.7	39.5
75°	0.0	0.0	3.9	7.9	11.8	15.8	19.7	19.7	15.8	15.8
77.5°	0.0	0.0	3.9	7.9	15.8	19.7	23.7	19.7	11.8	11.8
80°	0.0	0.0	3.9	11.8	19.7	27.6	31.6	23.7	11.8	7.9
82.5°	0.0	0.0	7.9	15.8	23.7	31.6	43.4	35.5	15.8	7.9
85°	0.0	0.0	3.9	11.8	23.7	31.6	63.1	43.4	19.7	3.9
87.5°	0.0	0.0	0.0	3.9	3.9	7.9	23.7	15.8	7.9	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°
359847.4	0°	359847.4	359847.4	359847.4	359847.4	359847.4	359847.4	359847.4	359847.4
354078.9	1°	356552.8	356801.4	355988.5	357247.2	356805.3	354217.0	353360.7	352346.7
340044.2	2°	339002.5	340269.1	340332.2	341729.0	341709.2	338690.8	337755.7	339479.9
315383.8	3°	314429.0	315904.7	314575.0	317056.8	316311.1	312649.5	311698.6	313655.6
284189.5	4°	283341.2	283061.1	282603.4	281190.8	282930.9	280433.3	278551.2	281206.6
248019.7	5°	247522.6	246899.2	246007.4	245589.2	246883.4	245285.4	241414.7	245293.3
212445.7	6°	212706.1	210023.1	209892.9	209660.1	209790.3	205315.9	205584.2	208472.5
173932.2	7°	175770.9	176264.1	175258.0	176871.7	175640.7	172610.4	171442.5	174484.6
147022.9	8°	145997.0	145373.6	144604.2	147015.0	144880.4	142891.8	141530.5	143933.4
120176.7	9°	119951.8	118874.6	118093.4	117971.0	118302.5	114569.9	115327.5	117146.4
97725.9	10°	97761.4	95993.8	96423.8	96538.3	96175.3	93729.0	93752.6	94380.0
59938.4	12.5°	59725.3	58857.3	59074.3	59192.7	59930.5	59070.4	57855.1	56979.2
37791.5	15°	37538.9	36915.5	38190.0	39046.2	38872.6	38107.1	37535.0	36741.9
25122.0	17.5°	24889.2	25705.9	25709.9	26491.1	26570.0	25804.6	25362.7	24648.5
16338.9	20°	16279.8	16619.1	17325.4	17877.7	18197.3	17613.4	17084.7	16595.4
10187.7	22.5°	10187.7	10779.5	11221.4	11939.5	12231.5	11805.4	11430.6	11032.0
6360.4	25°	6253.9	6676.0	7043.0	7666.4	8064.9	7859.7	7516.5	7236.3
4107.4	27.5°	4170.6	4348.1	4529.6	4959.7	5374.0	5259.6	5121.5	4951.8
2896.1	30°	2939.5	2955.3	3148.6	3389.3	3665.5	3736.5	3673.4	3586.6
2126.7	32.5°	2166.2	2229.3	2320.0	2470.0	2655.4	2825.1	2793.5	2754.1
1625.6	35°	1673.0	1767.7	1842.6	1957.0	2055.7	2217.5	2245.1	2233.2
1337.6	37.5°	1365.2	1448.1	1523.0	1590.1	1673.0	1783.4	1870.2	1874.2
1104.8	40°	1132.4	1207.4	1306.0	1357.3	1416.5	1499.3	1605.9	1613.8
935.1	42.5°	954.8	1025.9	1124.5	1187.6	1231.0	1310.0	1416.5	1432.3
801.0	45°	820.7	864.1	966.7	1041.7	1085.1	1136.3	1250.8	1266.6
690.5	47.5°	714.2	757.6	820.7	927.2	966.7	1014.0	1104.8	1132.4
611.6	50°	627.4	670.8	726.0	820.7	879.9	919.3	994.3	1033.8
532.7	52.5°	556.3	599.7	658.9	733.9	801.0	836.5	907.5	958.8
434.0	55°	465.6	540.6	584.0	651.0	741.8	773.3	828.6	895.7
378.8	57.5°	406.4	469.5	532.7	587.9	678.7	718.1	773.3	836.5
299.9	60°	343.3	402.5	477.4	524.8	611.6	662.9	722.1	781.2
228.8	62.5°	272.2	351.2	402.5	469.5	552.4	619.5	666.8	726.0
177.6	65°	201.2	288.0	347.2	418.2	497.2	568.2	607.6	670.8
126.3	67.5°	146.0	224.9	295.9	363.0	438.0	509.0	548.4	603.7
78.9	70°	114.4	165.7	244.6	303.8	382.7	441.9	485.3	520.8
51.3	72.5°	67.1	126.3	197.3	264.4	335.4	374.8	406.4	438.0
23.7	75°	43.4	98.6	161.8	221.0	272.2	307.8	335.4	363.0
11.8	77.5°	27.6	71.0	130.2	185.4	209.1	252.5	276.2	292.0
7.9	80°	15.8	55.2	114.4	149.9	169.7	197.3	221.0	240.7
7.9	82.5°	11.8	47.3	94.7	126.3	126.3	157.8	169.7	169.7
3.9	85°	7.9	39.5	75.0	118.4	94.7	118.4	110.5	110.5
3.9	87.5°	7.9	27.6	35.5	51.3	43.4	51.3	51.3	59.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
359847.4  
348330.0  
332176.5  
304963.4  
271595.0  
235074.0  
200099.8  
166210.6  
137071.9  
111464.7  
90110.8  
56446.5  
36335.5  
24470.9  
16425.7  
10819.0  
7074.6  
4853.2  
3527.4  
2722.5  
2193.8  
1846.6  
1601.9  
1420.4  
1262.6  
1136.3  
1037.7  
958.8  
899.6  
840.4  
797.0  
753.6  
682.6  
607.6  
532.7  
445.9  
363.0  
284.1  
217.0  
157.8  
106.5  
59.2  
0.0

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