

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: P637150

Luminaire Tested: **IFLD-S-SA3C-750-U-33-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637150  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-750-U-33-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor  
Light Source: (48) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21547.5 lumens  
Efficiency: N/A  
Efficacy: 134.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

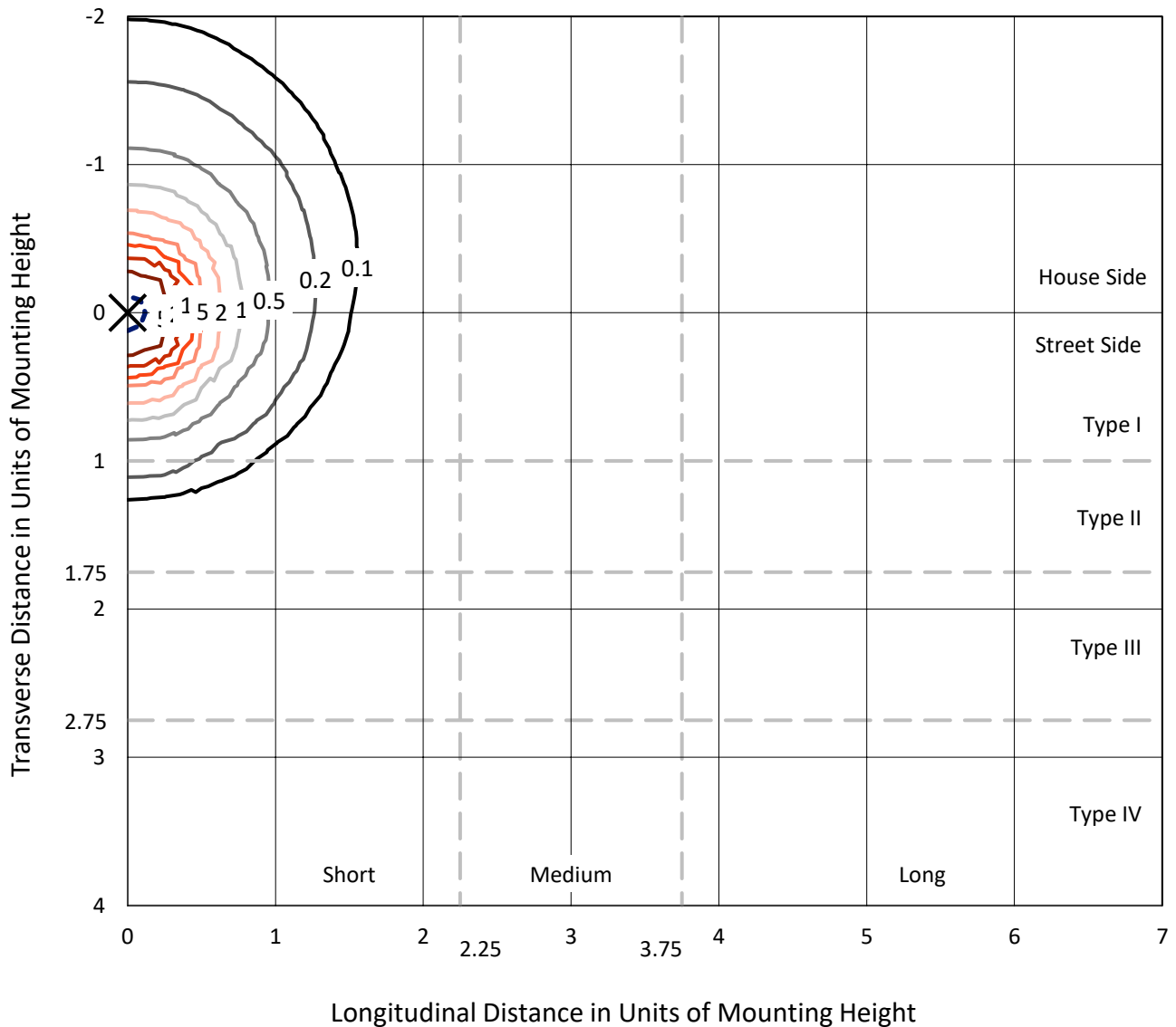
Input Watts (W): 160.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

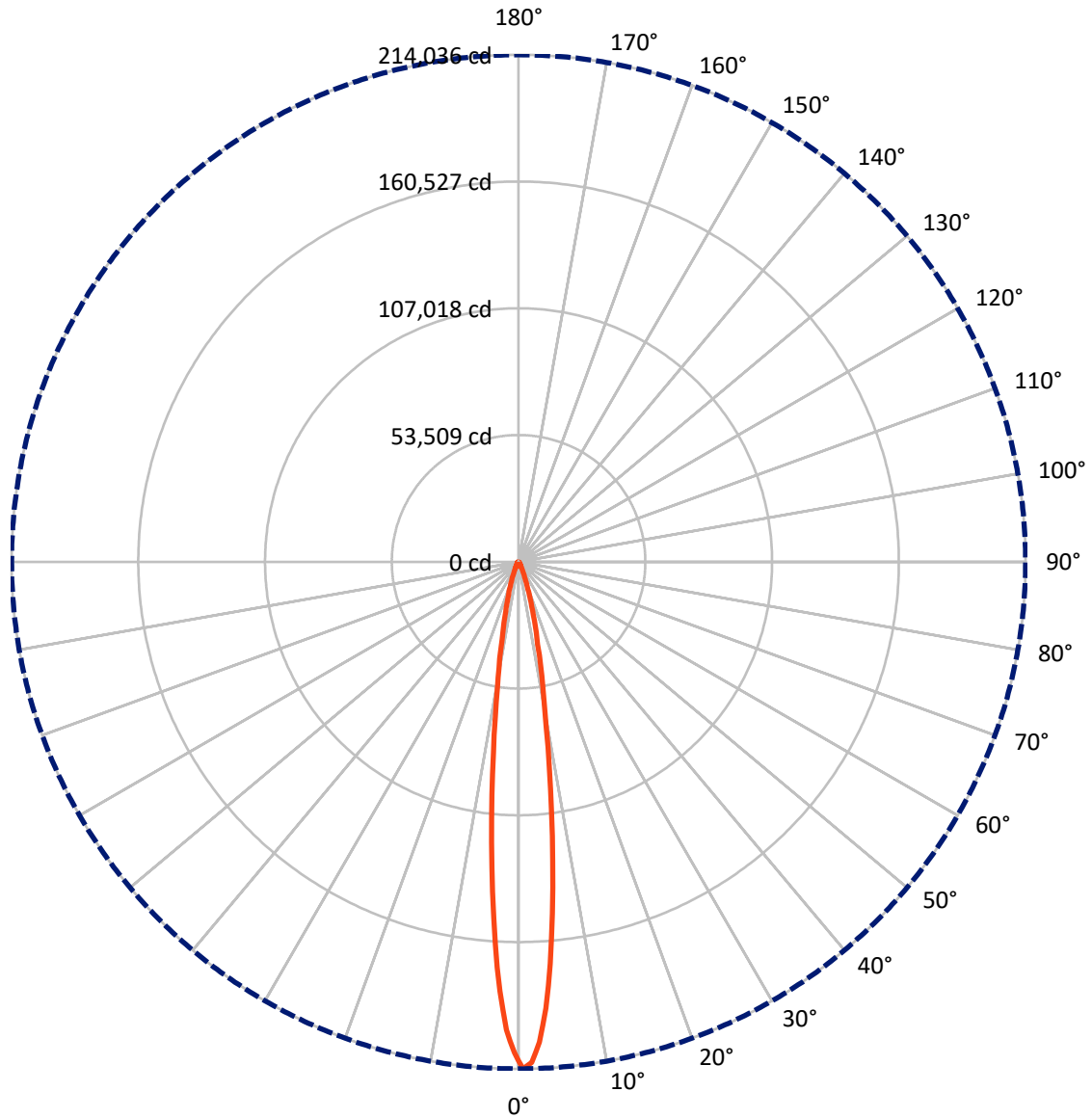
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 535.1 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	11036.2	0.0	11036.2
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	10511.2	0.0	10511.2
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	21547.5	0.0	21547.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	10877.8	50.5
10°-20°	6963.9	32.3
20°-30°	2093.2	9.7
30°-40°	681.6	3.2
40°-50°	396.6	1.8
50°-60°	263.4	1.2
60°-70°	158.5	0.7
70°-80°	81.5	0.4
80°-90°	31.0	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°	21547.5	100.0
0°-180°	21547.5	100.0

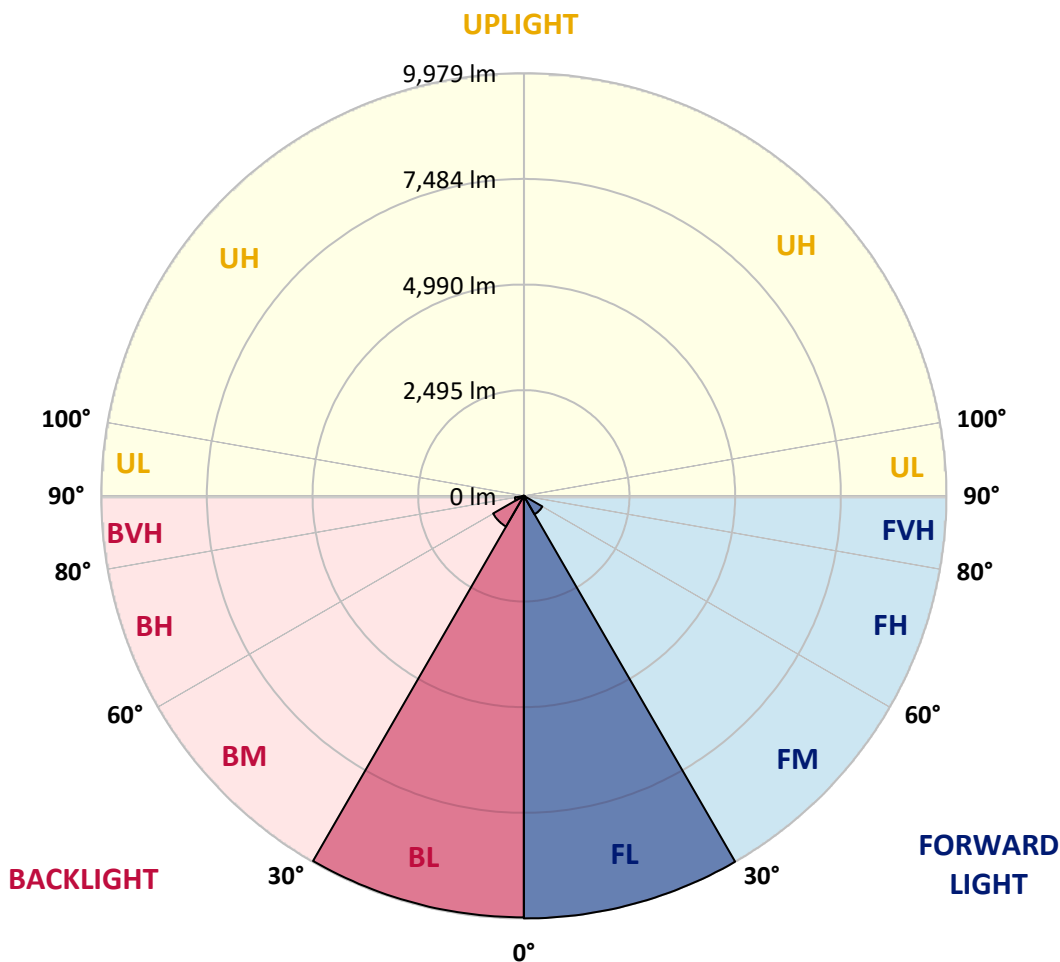


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9979.3	46.3			
FM (30°-60°)	503.6	2.3			
FH (60°-80°)	23.7	0.1			G0/660
FVH (80°-90°)	4.7	0.0			G0/10
BL (0°-30°)	9955.7	46.2	B5		
BM (30°-60°)	837.9	3.9	B1/1000		
BH (60°-80°)	216.3	1.0	B1/500		G0/660
BVH (80°-90°)	26.3	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°	214036.4	214036.4	214036.4	214036.4	214036.4	214036.4	214036.4	214036.4	214036.4	214036.4
1°	211473.6	210828.2	209161.9	210347.1	211389.1	211086.4	211065.2	210952.6	210795.3	212029.8
2°	203020.2	202602.4	200138.2	201154.4	202635.3	201555.7	202231.6	201637.9	201649.6	203123.4
3°	188770.0	188997.7	185066.7	186913.7	188971.8	186355.1	187167.1	188692.6	187094.4	186613.3
4°	170248.6	168272.5	166125.1	168002.6	168535.4	167012.2	168509.5	170377.6	168157.5	168256.1
5°	149103.3	147643.6	145101.9	146261.3	144940.0	145421.1	147664.7	148434.5	146885.5	144935.3
6°	127362.0	126324.7	123147.0	124818.0	124348.6	124076.4	126909.0	124562.2	125407.0	124226.6
7°	105939.8	104001.3	102440.6	104041.2	104144.4	103325.4	107002.9	106575.8	105038.6	104681.9
8°	87772.7	85838.9	84517.6	85709.8	86489.0	85202.9	86932.5	88068.4	86866.8	86974.8
9°	70793.2	70452.9	68615.3	70173.6	71020.8	69643.2	71558.2	71968.9	70844.8	71391.6
10°	58127.1	57730.5	56263.7	56895.0	58298.5	56655.6	58493.2	58627.0	57730.5	57986.3
12.5°	35921.1	35761.5	35721.6	35813.1	35794.4	36085.4	36554.8	36019.7	35949.3	35064.5
15°	23217.5	23454.6	23210.5	23679.9	23747.9	24022.5	23736.2	23304.4	22480.6	22072.3
17.5°	14489.5	14792.3	15210.0	15897.7	16585.3	16665.1	16284.9	15778.0	15379.0	14942.5
20°	8336.1	8483.9	8420.5	9244.3	11023.2	11506.7	11016.2	10483.4	10002.3	9561.1
22.5°	5179.5	5125.6	5224.1	5501.0	6080.7	7575.7	7174.4	6641.6	6291.9	5928.2
25°	3175.3	3234.0	3196.4	3349.0	3609.5	4243.1	4334.7	4104.7	3926.3	3738.6
27.5°	2044.1	2044.1	2060.5	2145.0	2323.4	2302.3	2790.4	2612.1	2515.8	2424.3
30°	1419.9	1424.5	1424.5	1473.8	1513.7	1443.3	1570.1	1800.0	1755.5	1685.0
32.5°	1053.7	1067.8	1079.6	1105.4	1072.5	997.4	1027.9	1295.5	1269.7	1243.8
35°	802.6	814.4	842.5	856.6	809.7	762.7	734.6	952.8	964.6	957.5
37.5°	584.4	591.4	643.0	697.0	643.0	600.8	584.4	732.2	788.5	781.5
40°	448.3	450.6	460.0	521.0	521.0	488.1	492.8	546.8	645.4	645.4
42.5°	384.9	384.9	394.3	384.9	387.2	422.4	434.2	441.2	546.8	546.8
45°	333.3	333.3	337.9	314.5	291.0	363.8	373.2	375.5	460.0	471.7
47.5°	279.3	279.3	288.7	258.2	246.4	288.7	314.5	321.5	396.6	406.0
50°	206.5	208.9	237.0	211.2	218.3	223.0	272.2	276.9	335.6	356.7
52.5°	138.5	138.5	143.2	164.3	190.1	183.1	220.6	237.0	267.5	295.7
55°	112.6	112.6	110.3	105.6	140.8	152.5	161.9	197.1	218.3	253.5
57.5°	77.4	82.1	75.1	86.8	91.5	115.0	122.0	154.9	166.6	213.6
60°	9.4	11.7	16.4	63.4	61.0	77.4	91.5	122.0	136.1	164.3
62.5°	2.3	2.3	4.7	11.7	42.2	51.6	72.8	84.5	98.6	126.7
65°	0.0	0.0	2.3	4.7	9.4	28.2	37.5	49.3	70.4	89.2
67.5°	0.0	0.0	2.3	4.7	4.7	11.7	18.8	30.5	37.5	65.7
70°	0.0	0.0	2.3	4.7	4.7	9.4	11.7	14.1	25.8	35.2
72.5°	0.0	0.0	2.3	4.7	7.0	9.4	11.7	11.7	11.7	23.5
75°	0.0	0.0	2.3	4.7	7.0	9.4	11.7	11.7	9.4	9.4
77.5°	0.0	0.0	2.3	4.7	9.4	11.7	14.1	11.7	7.0	7.0
80°	0.0	0.0	2.3	7.0	11.7	16.4	18.8	14.1	7.0	4.7
82.5°	0.0	0.0	4.7	9.4	14.1	18.8	25.8	21.1	9.4	4.7
85°	0.0	0.0	2.3	7.0	14.1	18.8	37.5	25.8	11.7	2.3
87.5°	0.0	0.0	0.0	2.3	2.3	4.7	14.1	9.4	4.7	2.3
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°
214036.4	0°	214036.4	214036.4	214036.4	214036.4	214036.4	214036.4	214036.4	214036.4
210605.2	1°	212076.7	212224.6	211741.1	212489.8	212226.9	210687.4	210178.1	209575.0
202257.4	2°	201637.9	202391.2	202428.8	203259.6	203247.8	201452.5	200896.3	201921.8
187589.5	3°	187021.6	187899.3	187108.4	188584.6	188141.1	185963.2	185397.6	186561.6
169035.2	4°	168530.7	168364.0	168091.8	167251.6	168286.6	166801.0	165681.6	167261.0
147521.5	5°	147225.8	146855.0	146324.6	146075.9	146845.6	145895.2	143592.9	145899.9
126362.2	6°	126517.1	124921.2	124843.8	124705.3	124782.8	122121.4	122281.0	123998.9
103454.5	7°	104548.1	104841.5	104243.0	105202.9	104470.7	102668.3	101973.6	103783.0
87448.9	8°	86838.7	86467.9	86010.2	87444.2	86174.5	84991.7	84182.0	85611.3
71480.8	9°	71347.0	70706.3	70241.6	70168.9	70366.0	68145.9	68596.5	69678.4
58127.1	10°	58148.3	57096.9	57352.7	57420.7	57204.8	55749.8	55763.8	56137.0
35651.2	12.5°	35524.5	35008.2	35137.3	35207.7	35646.5	35134.9	34412.1	33891.1
22478.3	15°	22328.1	21957.3	22715.3	23224.6	23121.3	22666.0	22325.7	21854.0
14942.5	17.5°	14804.0	15289.8	15292.2	15756.8	15803.8	15348.5	15085.6	14660.9
9718.4	20°	9683.2	9885.0	10305.1	10633.6	10823.7	10476.4	10161.9	9870.9
6059.6	22.5°	6059.6	6411.6	6674.5	7101.6	7275.3	7021.8	6798.9	6561.8
3783.1	25°	3719.8	3970.9	4189.2	4560.0	4797.0	4675.0	4470.8	4304.1
2443.1	27.5°	2480.6	2586.2	2694.2	2950.0	3196.4	3128.4	3046.2	2945.3
1722.6	30°	1748.4	1757.8	1872.8	2016.0	2180.2	2222.5	2184.9	2133.3
1265.0	32.5°	1288.4	1326.0	1380.0	1469.1	1579.4	1680.4	1661.6	1638.1
966.9	35°	995.1	1051.4	1096.0	1164.0	1222.7	1318.9	1335.4	1328.3
795.6	37.5°	812.0	861.3	905.9	945.8	995.1	1060.8	1112.4	1114.8
657.1	40°	673.6	718.1	776.8	807.3	842.5	891.8	955.2	959.9
556.2	42.5°	567.9	610.2	668.9	706.4	732.2	779.2	842.5	851.9
476.4	45°	488.1	514.0	575.0	619.6	645.4	675.9	744.0	753.3
410.7	47.5°	424.8	450.6	488.1	551.5	575.0	603.1	657.1	673.6
363.8	50°	373.2	399.0	431.8	488.1	523.4	546.8	591.4	614.9
316.8	52.5°	330.9	356.7	391.9	436.5	476.4	497.5	539.8	570.3
258.2	55°	276.9	321.5	347.3	387.2	441.2	460.0	492.8	532.7
225.3	57.5°	241.7	279.3	316.8	349.7	403.7	427.1	460.0	497.5
178.4	60°	204.2	239.4	284.0	312.1	363.8	394.3	429.5	464.7
136.1	62.5°	161.9	208.9	239.4	279.3	328.6	368.5	396.6	431.8
105.6	65°	119.7	171.3	206.5	248.8	295.7	337.9	361.4	399.0
75.1	67.5°	86.8	133.8	176.0	215.9	260.5	302.7	326.2	359.1
46.9	70°	68.1	98.6	145.5	180.7	227.6	262.8	288.7	309.8
30.5	72.5°	39.9	75.1	117.3	157.2	199.5	223.0	241.7	260.5
14.1	75°	25.8	58.7	96.2	131.4	161.9	183.1	199.5	215.9
7.0	77.5°	16.4	42.2	77.4	110.3	124.4	150.2	164.3	173.7
4.7	80°	9.4	32.9	68.1	89.2	100.9	117.3	131.4	143.2
4.7	82.5°	7.0	28.2	56.3	75.1	75.1	93.9	100.9	100.9
2.3	85°	4.7	23.5	44.6	70.4	56.3	70.4	65.7	65.7
2.3	87.5°	4.7	16.4	21.1	30.5	25.8	30.5	30.5	35.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
214036.4  
207185.9  
197577.8  
181391.5  
161544.0  
139821.5  
119018.9  
98861.7  
81530.1  
66298.9  
53597.7  
33574.2  
21612.3  
14555.3  
9770.0  
6435.1  
4207.9  
2886.6  
2098.1  
1619.3  
1304.9  
1098.3  
952.8  
844.9  
751.0  
675.9  
617.2  
570.3  
535.1  
499.9  
474.1  
448.3  
406.0  
361.4  
316.8  
265.2  
215.9  
169.0  
129.1  
93.9  
63.4  
35.2  
0.0

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