

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: P637076

Luminaire Tested: **IFLD-L-SA7A-730-U-33-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637076  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-730-U-33-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor  
Light Source: (112) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28345 lumens  
Efficiency: N/A  
Efficacy: 130.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

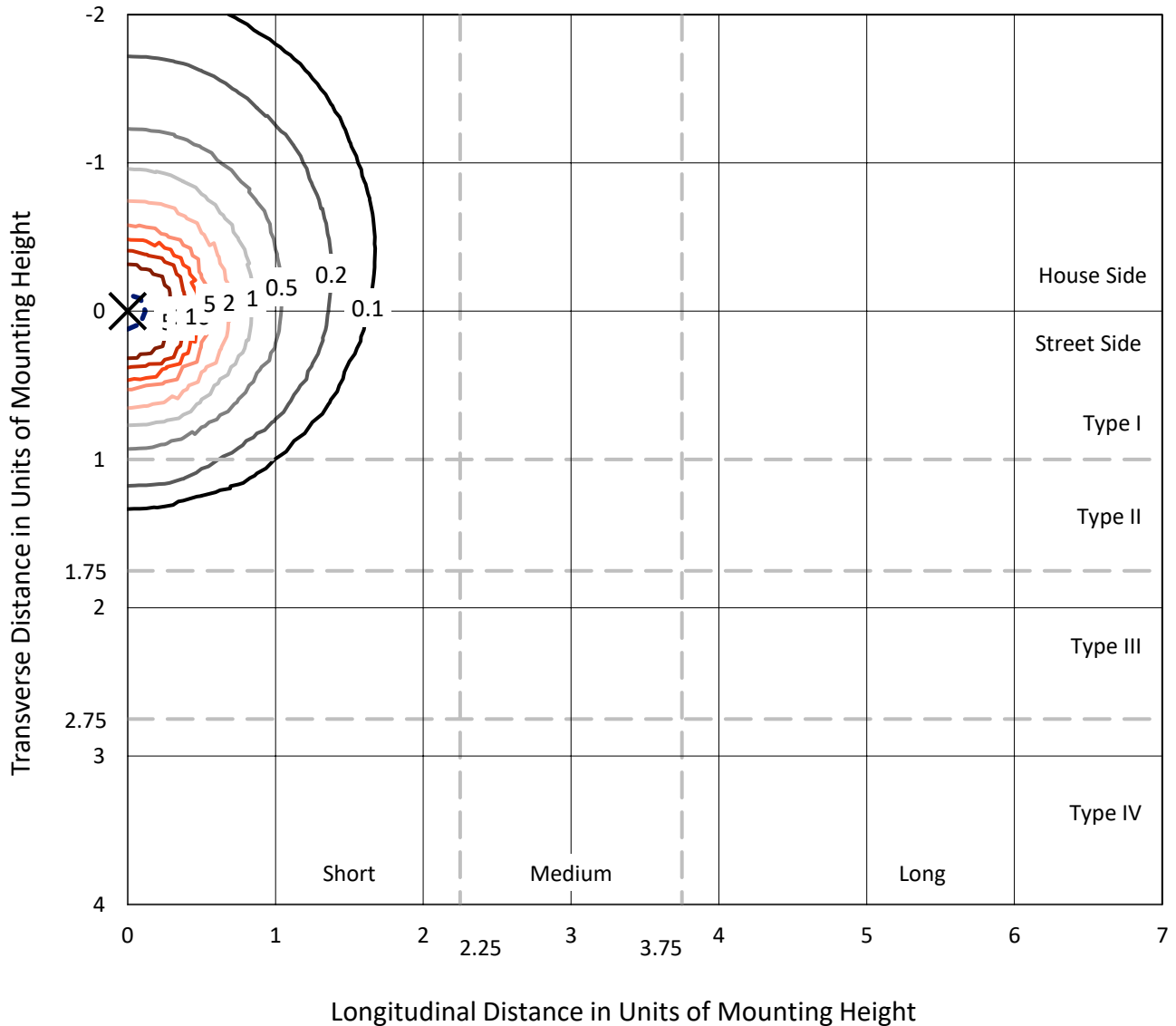
Input Watts (W): 217.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

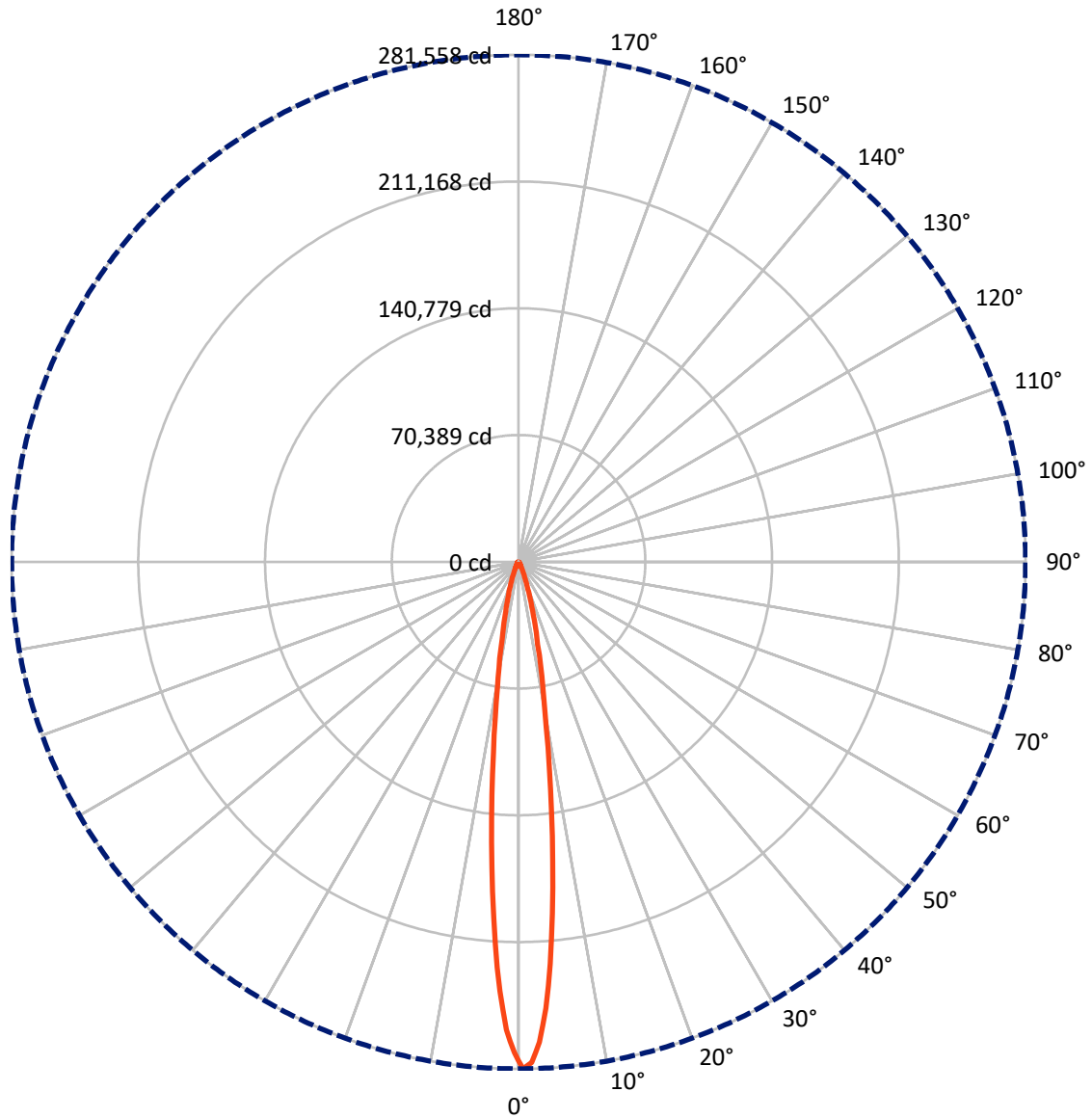
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 703.9 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	14517.8	0.0	14517.8
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	13827.2	0.0	13827.2
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	28345.0	0.0	28345.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	14309.4	50.5
10°-20°	9160.8	32.3
20°-30°	2753.6	9.7
30°-40°	896.6	3.2
40°-50°	521.6	1.8
50°-60°	346.5	1.2
60°-70°	208.6	0.7
70°-80°	107.2	0.4
80°-90°	40.7	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°	28345.0	100.0
0°-180°	28345.0	100.0

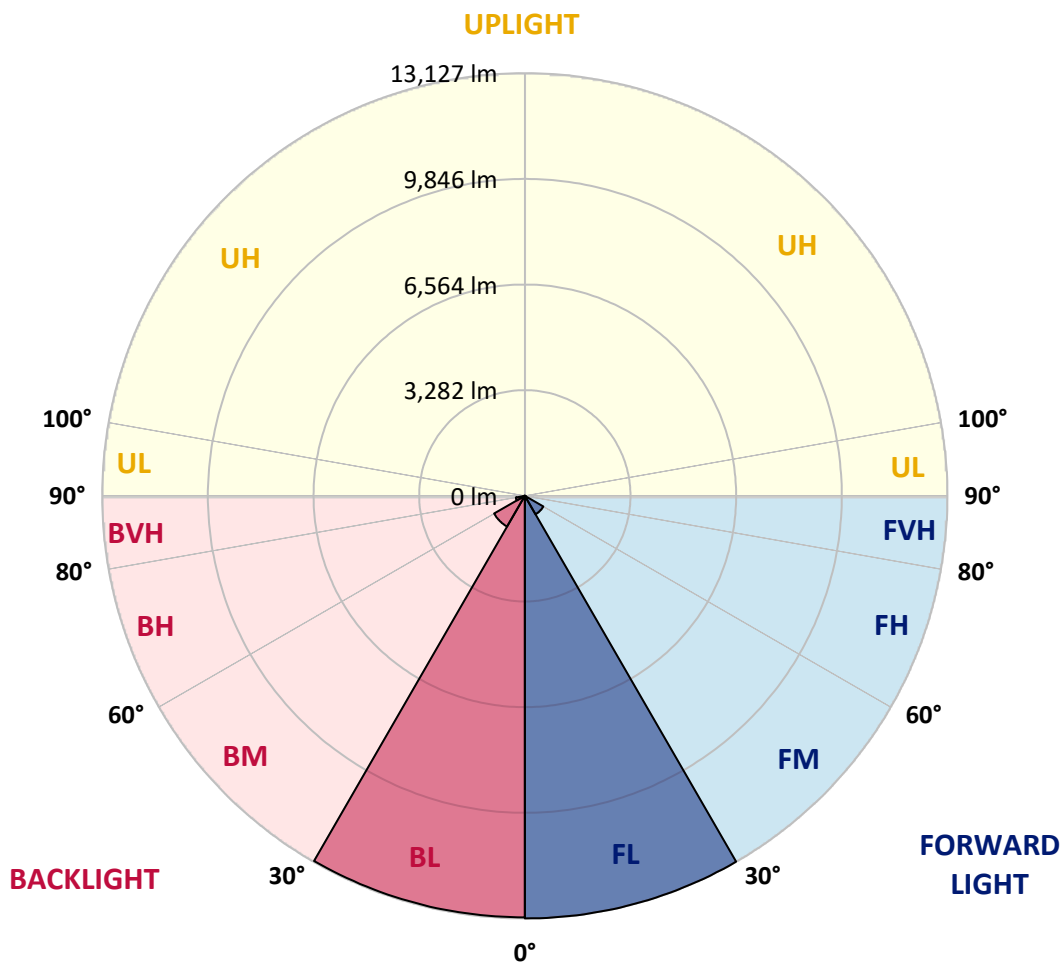


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	13127.4	46.3			
FM (30°-60°)	662.4	2.3			
FH (60°-80°)	31.2	0.1			G0/660
FVH (80°-90°)	6.1	0.0			G0/10
BL (0°-30°)	13096.3	46.2	B5		
BM (30°-60°)	1102.3	3.9	B2/2500		
BH (60°-80°)	284.6	1.0	B1/500		G0/660
BVH (80°-90°)	34.6	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°	281557.5	281557.5	281557.5	281557.5	281557.5	281557.5	281557.5	281557.5	281557.5	281557.5
1°	278186.2	277337.3	275145.3	276704.4	278075.1	277676.9	277649.1	277500.9	277294.0	278917.9
2°	267066.1	266516.6	263275.0	264611.7	266559.8	265139.7	266028.8	265247.7	265263.1	267201.9
3°	248320.5	248619.9	243448.9	245878.5	248586.0	245143.7	246211.9	248218.6	246116.2	245483.3
4°	223956.1	221356.7	218531.9	221001.7	221702.5	219698.9	221668.5	224125.9	221205.4	221335.1
5°	196140.3	194220.1	190876.6	192401.7	190663.6	191296.5	194247.8	195260.4	193222.9	190657.4
6°	167540.3	166175.8	161995.7	164193.8	163576.3	163218.2	166944.5	163857.2	164968.6	163415.8
7°	139360.2	136810.1	134757.1	136862.6	136998.4	135921.0	140758.7	140196.8	138174.7	137705.4
8°	115462.0	112918.1	111180.0	112748.3	113773.3	112081.5	114356.8	115851.0	114270.3	114412.3
9°	93126.0	92678.3	90261.0	92310.9	93425.4	91613.2	94132.4	94672.7	93193.9	93913.2
10°	76464.2	75942.5	74013.0	74843.5	76689.6	74528.6	76945.9	77121.8	75942.5	76279.0
12.5°	47253.0	47043.0	46990.6	47111.0	47086.3	47469.1	48086.5	47382.6	47290.0	46126.1
15°	30541.9	30853.7	30532.6	31150.0	31239.6	31600.8	31224.1	30656.1	29572.5	29035.3
17.5°	19060.5	19458.7	20008.3	20912.8	21817.4	21922.3	21422.2	20755.4	20230.5	19656.3
20°	10965.8	11160.3	11076.9	12160.6	14500.7	15136.6	14491.4	13790.6	13157.7	12577.3
22.5°	6813.5	6742.5	6872.2	7236.4	7999.0	9965.5	9437.6	8736.8	8276.8	7798.3
25°	4177.0	4254.2	4204.8	4405.5	4748.1	5581.7	5702.1	5399.5	5164.9	4917.9
27.5°	2689.0	2689.0	2710.6	2821.7	3056.3	3028.6	3670.7	3436.1	3309.5	3189.1
30°	1867.8	1873.9	1873.9	1938.8	1991.3	1898.6	2065.3	2367.9	2309.2	2216.6
32.5°	1386.2	1404.7	1420.1	1454.1	1410.9	1312.1	1352.2	1704.1	1670.2	1636.2
35°	1055.8	1071.3	1108.3	1126.8	1065.1	1003.3	966.3	1253.4	1268.8	1259.6
37.5°	768.7	778.0	845.9	916.9	845.9	790.3	768.7	963.2	1037.3	1028.0
40°	589.7	592.7	605.1	685.4	685.4	642.1	648.3	719.3	849.0	849.0
42.5°	506.3	506.3	518.7	506.3	509.4	555.7	571.1	580.4	719.3	719.3
45°	438.4	438.4	444.6	413.7	382.8	478.5	490.9	494.0	605.1	620.5
47.5°	367.4	367.4	379.7	339.6	324.2	379.7	413.7	422.9	521.7	534.1
50°	271.7	274.8	311.8	277.8	287.1	293.3	358.1	364.3	441.5	469.3
52.5°	182.1	182.1	188.3	216.1	250.1	240.8	290.2	311.8	351.9	389.0
55°	148.2	148.2	145.1	138.9	185.2	200.7	213.0	259.3	287.1	333.4
57.5°	101.9	108.1	98.8	114.2	120.4	151.3	160.5	203.8	219.2	280.9
60°	12.3	15.4	21.6	83.4	80.3	101.9	120.4	160.5	179.1	216.1
62.5°	3.1	3.1	6.2	15.4	55.6	67.9	95.7	111.1	129.7	166.7
65°	0.0	0.0	3.1	6.2	12.3	37.0	49.4	64.8	92.6	117.3
67.5°	0.0	0.0	3.1	6.2	6.2	15.4	24.7	40.1	49.4	86.4
70°	0.0	0.0	3.1	6.2	6.2	12.3	15.4	18.5	34.0	46.3
72.5°	0.0	0.0	3.1	6.2	9.3	12.3	15.4	15.4	15.4	30.9
75°	0.0	0.0	3.1	6.2	9.3	12.3	15.4	15.4	12.3	12.3
77.5°	0.0	0.0	3.1	6.2	12.3	15.4	18.5	15.4	9.3	9.3
80°	0.0	0.0	3.1	9.3	15.4	21.6	24.7	18.5	9.3	6.2
82.5°	0.0	0.0	6.2	12.3	18.5	24.7	34.0	27.8	12.3	6.2
85°	0.0	0.0	3.1	9.3	18.5	24.7	49.4	34.0	15.4	3.1
87.5°	0.0	0.0	0.0	3.1	3.1	6.2	18.5	12.3	6.2	3.1
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°
281557.5	0°	281557.5	281557.5	281557.5	281557.5	281557.5	281557.5	281557.5	281557.5
277044.0	1°	278979.7	279174.2	278538.2	279523.0	279177.2	277152.0	276482.1	275688.7
266062.7	2°	265247.7	266238.7	266288.1	267381.0	267365.5	265003.8	264272.1	265621.3
246767.6	3°	246020.5	247175.1	246134.7	248076.6	247493.1	244628.2	243884.1	245415.4
222360.1	4°	221696.3	221477.1	221119.0	220013.8	221375.2	219421.0	217948.4	220026.1
194059.5	5°	193670.5	193182.7	192485.0	192157.8	193170.4	191920.1	188891.5	191926.2
166225.1	6°	166428.9	164329.6	164227.7	164045.6	164147.4	160646.5	160856.5	163116.3
136090.8	7°	137529.4	137915.3	137128.1	138390.8	137427.6	135056.6	134142.8	136523.0
115036.0	8°	114233.3	113745.5	113143.5	115029.8	113359.6	111803.6	110738.6	112618.7
94030.5	9°	93854.6	93011.7	92400.5	92304.8	92564.1	89643.6	90236.3	91659.5
76464.2	10°	76492.0	75109.0	75445.5	75535.0	75251.0	73336.9	73355.4	73846.3
46897.9	12.5°	46731.2	46052.0	46221.8	46314.5	46891.8	46218.8	45267.9	44582.5
29569.4	15°	29371.8	28884.0	29881.2	30551.1	30415.3	29816.4	29368.7	28748.2
19656.3	17.5°	19474.2	20113.2	20116.3	20727.6	20789.3	20190.4	19844.6	19285.9
12784.2	20°	12737.9	13003.4	13556.0	13988.2	14238.3	13781.3	13367.7	12984.8
7971.2	22.5°	7971.2	8434.3	8780.1	9341.9	9570.4	9237.0	8943.7	8631.9
4976.6	25°	4893.2	5223.6	5510.7	5998.5	6310.3	6149.7	5881.2	5662.0
3213.8	27.5°	3263.2	3402.1	3544.1	3880.6	4204.8	4115.3	4007.2	3874.5
2266.0	30°	2300.0	2312.3	2463.6	2651.9	2868.0	2923.6	2874.2	2806.3
1664.0	32.5°	1694.9	1744.3	1815.3	1932.6	2077.7	2210.4	2185.8	2154.9
1271.9	35°	1309.0	1383.1	1441.7	1531.3	1608.4	1735.0	1756.6	1747.4
1046.6	37.5°	1068.2	1133.0	1191.7	1244.1	1309.0	1395.4	1463.3	1466.4
864.4	40°	886.0	944.7	1021.9	1062.0	1108.3	1173.1	1256.5	1262.7
731.7	42.5°	747.1	802.7	879.9	929.3	963.2	1025.0	1108.3	1120.7
626.7	45°	642.1	676.1	756.4	815.0	849.0	889.1	978.6	991.0
540.3	47.5°	558.8	592.7	642.1	725.5	756.4	793.4	864.4	886.0
478.5	50°	490.9	524.8	568.0	642.1	688.4	719.3	778.0	808.9
416.8	52.5°	435.3	469.3	515.6	574.2	626.7	654.5	710.1	750.2
339.6	55°	364.3	422.9	456.9	509.4	580.4	605.1	648.3	700.8
296.4	57.5°	318.0	367.4	416.8	460.0	531.0	561.9	605.1	654.5
234.6	60°	268.6	314.9	373.6	410.6	478.5	518.7	565.0	611.3
179.1	62.5°	213.0	274.8	314.9	367.4	432.2	484.7	521.7	568.0
138.9	65°	157.4	225.4	271.7	327.2	389.0	444.6	475.4	524.8
98.8	67.5°	114.2	176.0	231.5	284.0	342.7	398.3	429.1	472.3
61.7	70°	89.5	129.7	191.4	237.7	299.5	345.8	379.7	407.5
40.1	72.5°	52.5	98.8	154.4	206.8	262.4	293.3	318.0	342.7
18.5	75°	34.0	77.2	126.6	172.9	213.0	240.8	262.4	284.0
9.3	77.5°	21.6	55.6	101.9	145.1	163.6	197.6	216.1	228.5
6.2	80°	12.3	43.2	89.5	117.3	132.8	154.4	172.9	188.3
6.2	82.5°	9.3	37.0	74.1	98.8	98.8	123.5	132.8	132.8
3.1	85°	6.2	30.9	58.7	92.6	74.1	92.6	86.4	86.4
3.1	87.5°	6.2	21.6	27.8	40.1	34.0	40.1	40.1	46.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
281557.5  
272545.9  
259906.8  
238614.3  
212505.7  
183930.3  
156565.2  
130049.1  
107250.0  
87213.9  
70505.9  
44165.8  
28430.2  
19146.9  
12852.1  
8465.2  
5535.4  
3797.3  
2760.0  
2130.2  
1716.5  
1444.8  
1253.4  
1111.4  
987.9  
889.1  
811.9  
750.2  
703.9  
657.6  
623.6  
589.7  
534.1  
475.4  
416.8  
348.9  
284.0  
222.3  
169.8  
123.5  
83.4  
46.3  
0.0

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