

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: P636781

Luminaire Tested: **IFLD-M-SA4A-935-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636781  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-935-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (64) 3500K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9432 lumens  
Efficiency: N/A  
Efficacy: 73.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

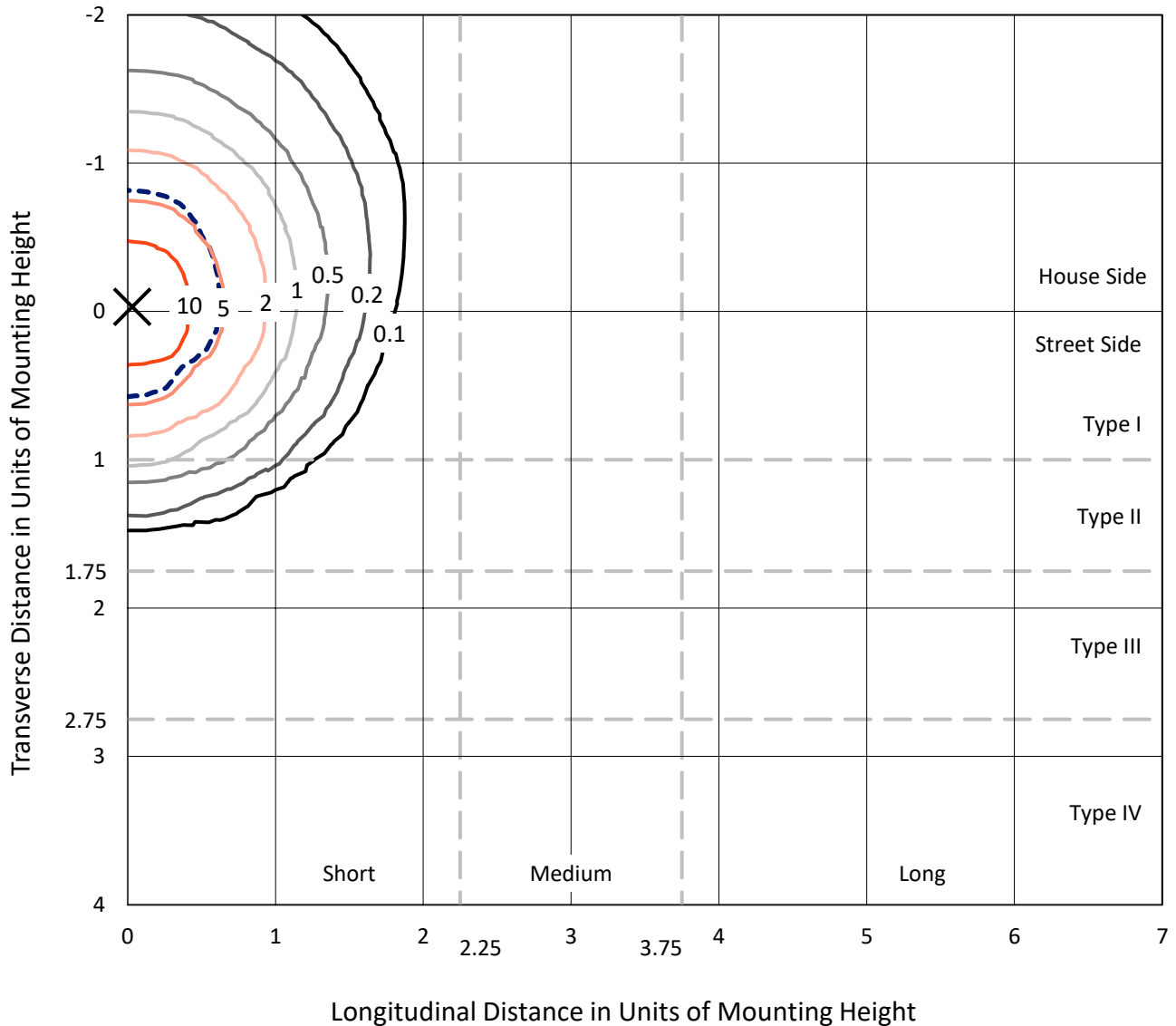
Input Watts (W): 128.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

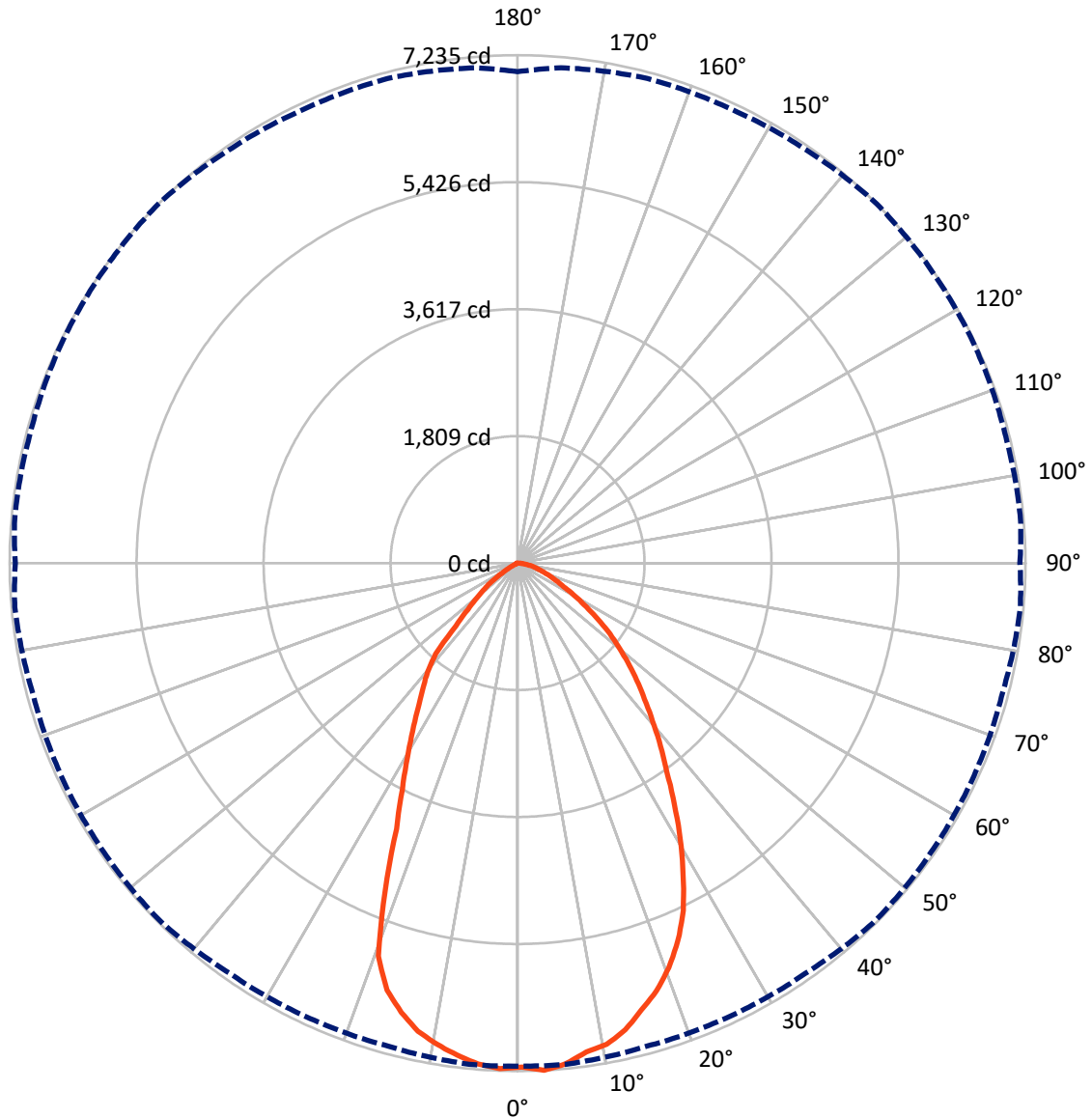
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 17.9 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5586.1	0.0	5586.1
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	3845.9	0.0	3845.9
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	9432.0	0.0	9432.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	673.2	7.1
10°-20°	1805.1	19.1
20°-30°	2201.4	23.3
30°-40°	2009.9	21.3
40°-50°	1452.5	15.4
50°-60°	793.1	8.4
60°-70°	327.9	3.5
70°-80°	132.8	1.4
80°-90°	36.1	0.4
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°	9432.0	100.0
0°-180°	9432.0	100.0



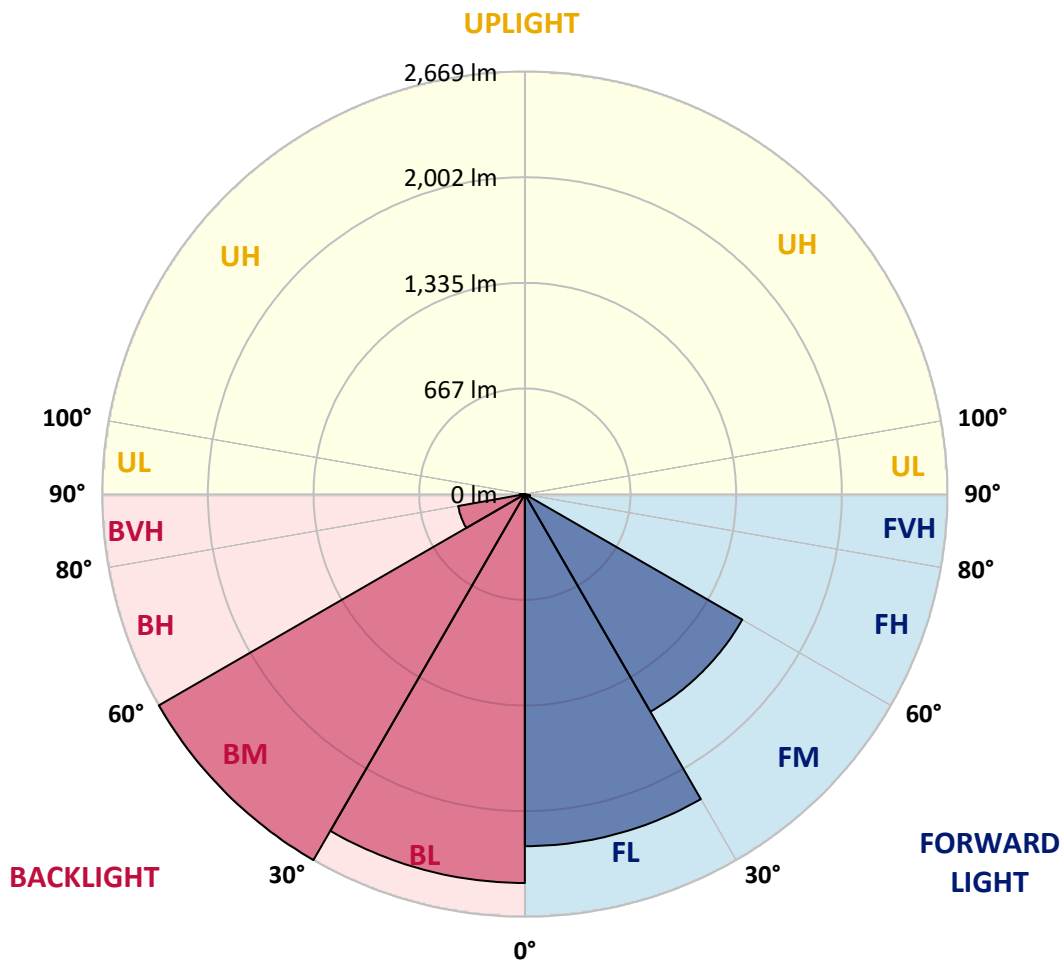
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2223.5	23.6			
FM (30°-60°)	1586.3	16.8			
FH (60°-80°)	33.2	0.4			G0/660
FVH (80°-90°)	2.9	0.0			G0/10
BL (0°-30°)	2456.2	26.0	B3/2500		
BM (30°-60°)	2669.2	28.3	B3/5000		
BH (60°-80°)	427.5	4.5	B1/500		G1/500
BVH (80°-90°)	33.2	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7177.7	7177.7	7177.7	7177.7	7177.7	7177.7	7177.7	7177.7	7177.7	7177.7
2.5°	7164.4	7173.7	7123.3	7128.6	7137.9	7205.6	7188.3	7172.4	7149.8	7188.3
5°	7155.1	7160.5	7107.3	7088.7	7096.7	7157.8	7102.0	7102.0	7096.7	7090.1
7.5°	7083.4	7086.1	7044.9	7011.7	7032.9	7060.8	7019.7	7039.6	7010.4	7032.9
10°	6975.8	6958.6	6909.4	6900.1	6924.0	6950.6	6922.7	6941.3	6914.7	6932.0
12.5°	6817.8	6791.2	6751.4	6739.4	6780.6	6816.4	6793.9	6783.2	6748.7	6791.2
15°	6208.1	6188.2	6278.5	6436.6	6578.7	6609.2	6585.3	6596.0	6524.2	6536.2
17.5°	5109.7	5072.5	5169.4	5544.0	6077.9	6359.5	6338.3	6269.2	6163.0	6186.9
20°	4643.5	4632.8	4622.2	4711.2	5084.4	5938.5	5967.7	5792.4	5641.0	5607.8
22.5°	4380.5	4376.5	4365.9	4385.8	4484.1	5032.6	5367.3	5205.3	5104.4	5095.1
25°	4140.1	4133.4	4101.6	4126.8	4126.8	4158.7	4587.7	4686.0	4597.0	4586.4
27.5°	3895.7	3883.7	3878.4	3890.4	3829.3	3614.1	3723.0	4202.5	4156.0	4158.7
30°	3631.4	3627.4	3612.8	3638.0	3449.4	3182.4	3113.4	3764.2	3773.5	3770.8
32.5°	3238.2	3255.5	3321.9	3349.8	3039.0	2818.5	2702.9	3256.8	3446.7	3442.8
35°	2352.3	2352.3	2568.8	2971.2	2663.1	2497.1	2434.6	2761.4	3124.0	3137.3
37.5°	1933.9	1940.5	1983.0	2166.3	2297.8	2239.4	2220.8	2324.4	2709.6	2730.8
40°	1740.0	1740.0	1740.0	1664.3	1660.3	2017.6	2006.9	1973.7	2340.3	2386.8
42.5°	1563.3	1567.3	1570.0	1378.7	1272.4	1744.0	1720.0	1669.6	2009.6	2064.1
45°	1381.4	1388.0	1396.0	1152.9	1106.4	1255.2	1455.7	1399.9	1682.9	1753.3
47.5°	843.4	854.0	1034.7	977.6	982.9	968.3	1187.4	1178.1	1380.0	1479.6
50°	569.8	573.8	591.1	620.3	843.4	761.1	840.8	974.9	1048.0	1199.4
52.5°	478.2	484.8	442.3	402.5	553.9	595.0	587.1	723.9	753.1	940.4
55°	336.0	357.3	337.4	333.4	314.8	462.2	445.0	556.5	575.1	714.6
57.5°	34.5	39.8	69.1	248.4	205.9	261.7	317.4	407.8	426.4	527.3
60°	2.7	2.7	6.6	34.5	150.1	156.7	219.2	251.0	286.9	367.9
62.5°	0.0	1.3	2.7	5.3	23.9	83.7	110.2	131.5	172.7	237.8
65°	0.0	0.0	1.3	4.0	5.3	31.9	42.5	69.1	94.3	147.4
67.5°	0.0	0.0	1.3	2.7	4.0	8.0	14.6	25.2	50.5	83.7
70°	0.0	0.0	1.3	2.7	4.0	6.6	10.6	15.9	22.6	45.2
72.5°	0.0	0.0	1.3	1.3	2.7	6.6	8.0	10.6	15.9	22.6
75°	0.0	0.0	1.3	1.3	4.0	8.0	6.6	8.0	10.6	14.6
77.5°	0.0	0.0	1.3	2.7	4.0	8.0	6.6	8.0	8.0	9.3
80°	0.0	0.0	1.3	2.7	5.3	9.3	8.0	8.0	6.6	6.6
82.5°	0.0	0.0	1.3	4.0	5.3	12.0	12.0	10.6	5.3	4.0
85°	0.0	0.0	2.7	5.3	8.0	13.3	13.3	10.6	4.0	2.7
87.5°	0.0	0.0	2.7	4.0	6.6	9.3	13.3	10.6	4.0	1.3
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°
7177.7	0°	7177.7	7177.7	7177.7	7177.7	7177.7	7177.7	7177.7	7177.7	7177.7
7155.1	2.5°	7191.0	7183.0	7209.6	7220.2	7234.8	7179.0	7144.5	7145.8	7082.1
7074.1	5°	7116.6	7117.9	7152.5	7149.8	7164.4	7133.9	7120.6	7098.0	7042.2
6971.8	7.5°	7022.3	7010.4	7043.6	7068.8	7031.6	7052.9	7022.3	7032.9	6999.7
6881.5	10°	6949.3	6921.4	6951.9	6969.2	6970.5	6949.3	6920.0	6892.1	6880.2
6740.7	12.5°	6787.2	6751.4	6803.2	6827.1	6823.1	6781.9	6748.7	6755.3	6716.8
6493.7	15°	6564.1	6565.4	6602.6	6625.2	6603.9	6594.6	6597.3	6581.3	6548.1
6152.3	17.5°	6222.7	6242.6	6340.9	6395.4	6407.3	6388.8	6379.5	6360.9	6327.7
5607.8	20°	5654.2	5773.8	5949.1	6117.8	6151.0	6145.7	6112.5	6104.5	6085.9
5068.5	22.5°	5154.8	5243.8	5447.0	5710.0	5845.5	5858.8	5818.9	5807.0	5787.1
4586.4	25°	4638.2	4733.8	4917.1	5202.6	5482.9	5540.0	5533.4	5497.5	5476.3
4158.7	27.5°	4202.5	4298.1	4464.2	4721.8	5022.0	5205.3	5222.6	5165.5	5164.1
3777.5	30°	3809.3	3940.8	4067.0	4276.9	4567.8	4842.7	4871.9	4832.1	4836.1
3428.1	32.5°	3501.2	3610.1	3717.7	3858.5	4100.2	4420.3	4534.6	4497.4	4482.8
3137.3	35°	3186.4	3260.8	3371.0	3499.9	3664.6	3982.0	4179.9	4152.0	4137.4
2744.1	37.5°	2827.8	2955.3	3035.0	3179.8	3308.6	3561.0	3839.9	3835.9	3805.4
2409.4	40°	2459.9	2594.0	2714.9	2861.0	2960.6	3161.2	3470.6	3469.3	3473.3
2062.7	42.5°	2126.5	2250.0	2396.1	2555.5	2651.1	2797.2	3129.3	3147.9	3170.5
1777.2	45°	1825.0	1936.5	2072.0	2265.9	2381.5	2465.2	2760.0	2845.1	2843.7
1522.1	47.5°	1554.0	1659.0	1773.2	1961.8	2109.2	2184.9	2429.3	2550.2	2542.2
1248.5	50°	1304.3	1397.3	1516.8	1653.6	1851.5	1918.0	2099.9	2259.3	2247.4
994.8	52.5°	1049.3	1178.1	1279.1	1403.9	1612.5	1677.5	1818.3	1973.7	1964.4
746.5	55°	818.2	943.0	1065.2	1172.8	1348.1	1445.1	1546.1	1705.4	1702.8
584.4	57.5°	619.0	755.8	871.3	973.6	1113.1	1232.6	1313.6	1458.4	1477.0
399.8	60°	458.2	563.2	688.0	802.2	912.5	1036.0	1090.5	1232.6	1240.6
273.6	62.5°	312.1	427.7	549.9	653.5	735.8	863.3	912.5	1029.4	1044.0
175.3	65°	216.5	290.9	430.3	504.7	605.7	714.6	763.7	856.7	885.9
100.9	67.5°	143.4	207.2	336.0	403.8	503.4	577.8	640.2	715.9	747.8
63.8	70°	78.4	152.7	240.4	318.8	405.1	476.8	537.9	599.0	626.9
29.2	72.5°	53.1	102.3	167.4	252.4	326.7	397.1	451.6	496.8	498.1
17.3	75°	26.6	69.1	127.5	195.2	255.0	324.1	373.2	399.8	367.9
10.6	77.5°	15.9	50.5	103.6	156.7	207.2	261.7	289.6	304.2	252.4
8.0	80°	9.3	35.9	81.0	124.9	143.4	192.6	219.2	223.1	168.7
5.3	82.5°	6.6	26.6	63.8	91.6	87.7	135.5	164.7	159.4	107.6
4.0	85°	4.0	18.6	39.8	57.1	53.1	89.0	95.6	98.3	62.4
2.7	87.5°	2.7	10.6	21.3	30.5	25.2	38.5	38.5	46.5	30.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
7177.7
6999.7
7029.0
6944.0
6827.1
6683.6
6514.9
6313.0
6043.4
5781.8
5453.7
5161.5
4816.1
4484.1
4117.5
3830.6
3473.3
3158.5
2846.4
2544.9
2258.0
1984.4
1709.4
1469.0
1252.5
1046.6
879.3
743.8
616.3
486.1
344.0
243.1
158.1
99.6
57.1
26.6
0.0

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