

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: P638120

Luminaire Tested: **IFLD-L-SA7A-730-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638120  
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-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (112) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21923.5 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G2

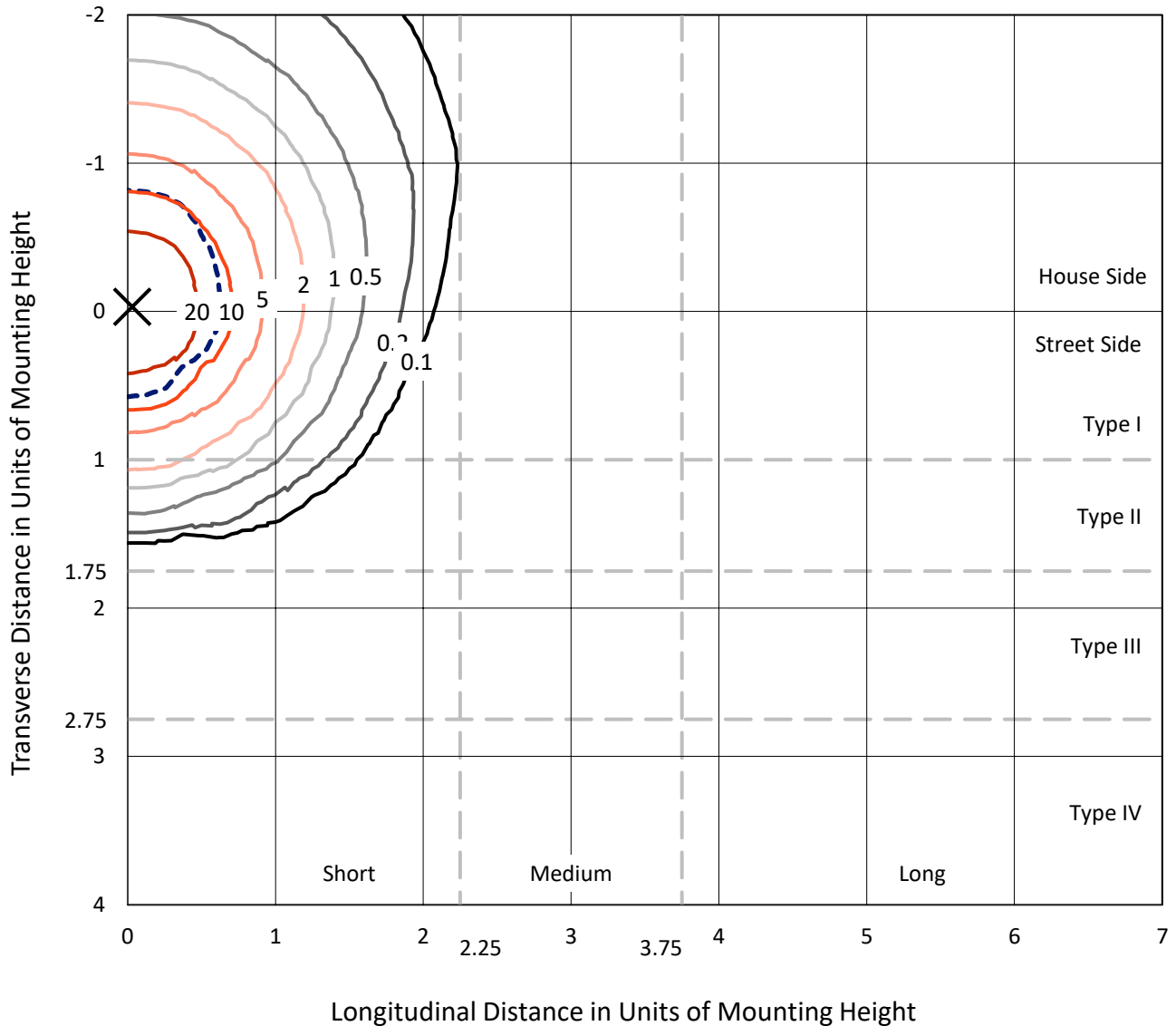
Input Watts (W): 217.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

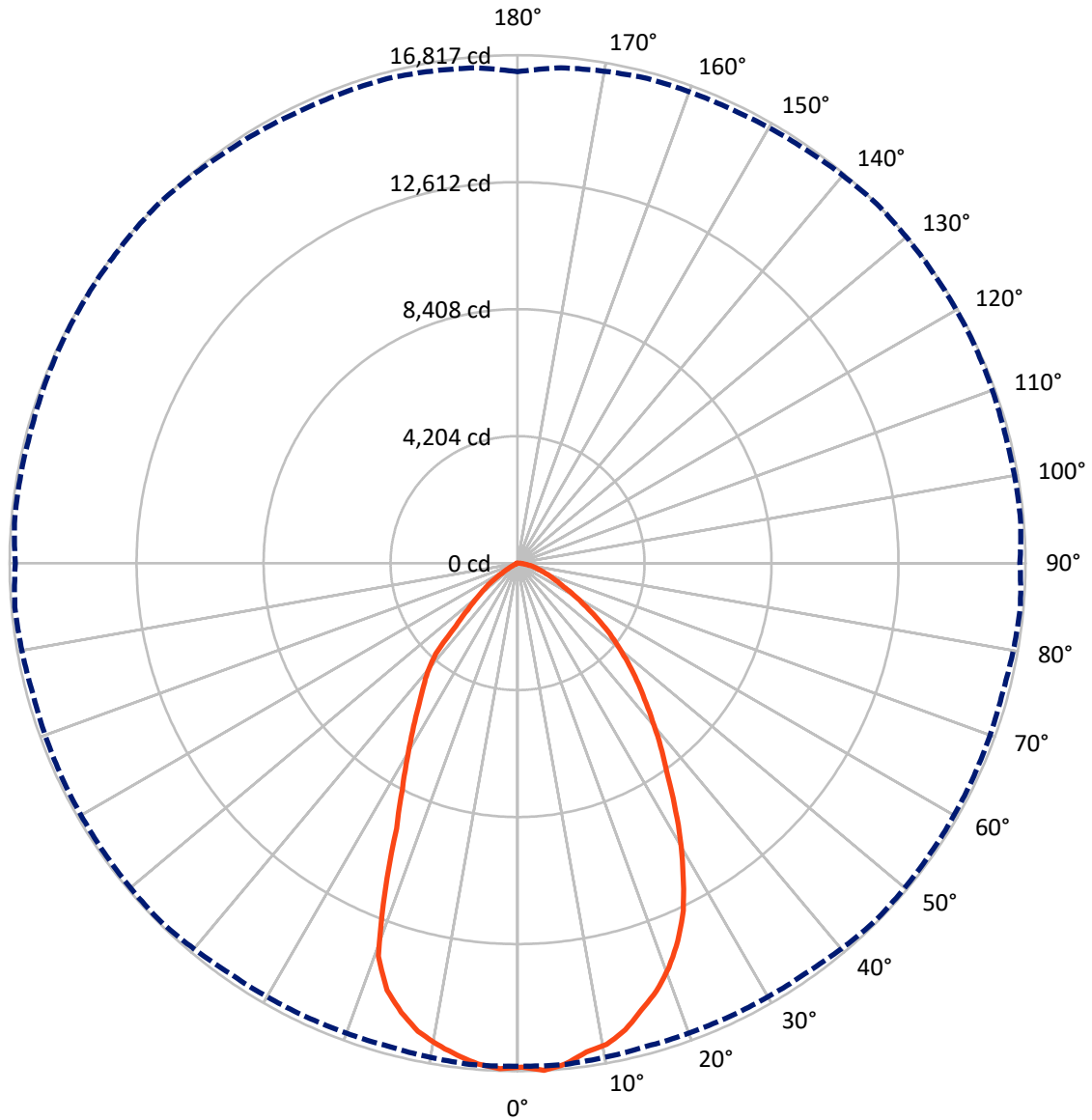
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 41.7 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	12984.2	0.0	12984.2
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	8939.3	0.0	8939.3
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	21923.5	0.0	21923.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1564.7	7.1
10°-20°	4195.8	19.1
20°-30°	5117.0	23.3
30°-40°	4671.7	21.3
40°-50°	3376.1	15.4
50°-60°	1843.4	8.4
60°-70°	762.2	3.5
70°-80°	308.7	1.4
80°-90°	84.0	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°	21923.5	100.0
0°-180°	21923.5	100.0



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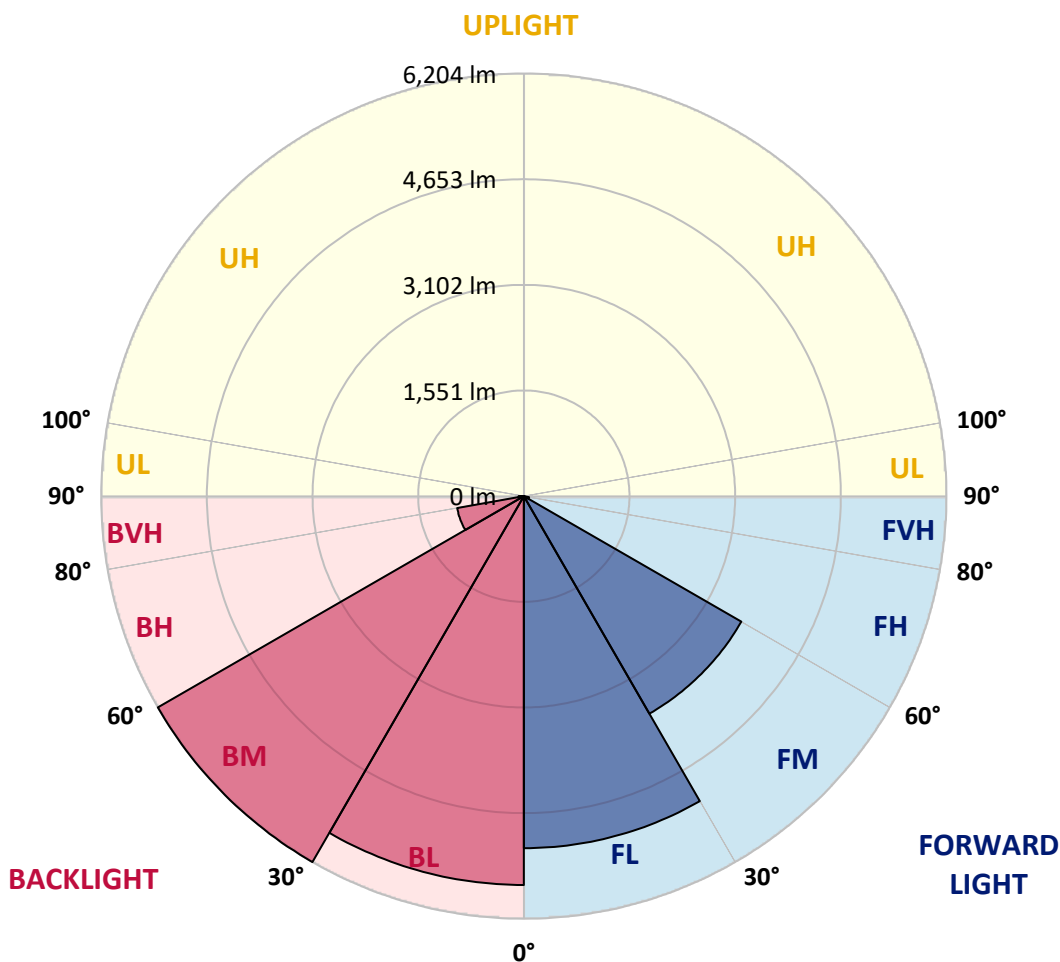
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5168.2	23.6			
FM (30°-60°)	3687.1	16.8			
FH (60°-80°)	77.3	0.4			G0/660
FVH (80°-90°)	6.7	0.0			G0/10
BL (0°-30°)	5709.2	26.0	B5		
BM (30°-60°)	6204.2	28.3	B4/8500		
BH (60°-80°)	993.6	4.5	B2/1000		G2/1000
BVH (80°-90°)	77.2	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G2**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	16683.7	16683.7	16683.7	16683.7	16683.7	16683.7	16683.7	16683.7	16683.7	16683.7
2.5°	16652.8	16674.4	16557.1	16569.5	16591.1	16748.5	16708.4	16671.4	16618.9	16708.4
5°	16631.2	16643.6	16520.1	16476.9	16495.4	16637.4	16507.7	16507.7	16495.4	16479.9
7.5°	16464.5	16470.7	16375.0	16297.8	16347.2	16412.0	16316.3	16362.6	16294.7	16347.2
10°	16214.4	16174.3	16060.1	16038.5	16094.0	16155.8	16090.9	16134.2	16072.4	16112.6
12.5°	15847.1	15785.3	15692.7	15664.9	15760.6	15844.0	15791.5	15766.8	15686.5	15785.3
15°	14430.0	14383.7	14593.6	14961.0	15291.3	15362.3	15306.8	15331.5	15164.8	15192.5
17.5°	11876.8	11790.4	12015.7	12886.3	14127.4	14781.9	14732.5	14572.0	14325.0	14380.6
20°	10793.2	10768.5	10743.8	10950.6	11818.1	13803.3	13871.2	13463.7	13111.7	13034.5
22.5°	10181.9	10172.6	10147.9	10194.2	10422.7	11697.7	12475.7	12099.1	11864.4	11842.8
25°	9623.1	9607.6	9533.5	9592.2	9592.2	9666.3	10663.5	10892.0	10685.1	10660.4
27.5°	9055.0	9027.2	9014.9	9042.7	8900.7	8400.5	8653.7	9768.2	9660.1	9666.3
30°	8440.6	8431.4	8397.4	8456.1	8017.7	7397.1	7236.6	8749.4	8771.0	8764.8
32.5°	7526.8	7566.9	7721.3	7786.1	7063.7	6551.2	6282.6	7570.0	8011.5	8002.3
35°	5467.6	5467.6	5970.8	6906.3	6190.0	5804.1	5659.0	6418.5	7261.3	7292.2
37.5°	4495.1	4510.5	4609.3	5035.4	5341.0	5205.2	5161.9	5402.8	6298.1	6347.5
40°	4044.3	4044.3	4044.3	3868.4	3859.1	4689.6	4664.9	4587.7	5439.8	5547.9
42.5°	3633.7	3643.0	3649.2	3204.6	2957.6	4053.6	3998.0	3880.7	4671.1	4797.6
45°	3210.8	3226.2	3244.7	2679.8	2571.7	2917.5	3383.7	3254.0	3911.6	4075.2
47.5°	1960.4	1985.1	2405.0	2272.2	2284.6	2250.6	2760.0	2738.4	3207.7	3439.2
50°	1324.4	1333.7	1373.8	1441.8	1960.4	1769.0	1954.3	2266.1	2435.9	2787.8
52.5°	1111.4	1126.9	1028.1	935.4	1287.4	1383.1	1364.6	1682.6	1750.5	2185.8
55°	781.1	830.5	784.2	774.9	731.7	1074.4	1034.2	1293.6	1336.8	1661.0
57.5°	80.3	92.6	160.5	577.3	478.5	608.2	737.9	947.8	991.0	1225.7
60°	6.2	6.2	15.4	80.3	348.9	364.3	509.4	583.5	666.9	855.2
62.5°	0.0	3.1	6.2	12.3	55.6	194.5	256.2	305.6	401.3	552.6
65°	0.0	0.0	3.1	9.3	12.3	74.1	98.8	160.5	219.2	342.7
67.5°	0.0	0.0	3.1	6.2	9.3	18.5	34.0	58.7	117.3	194.5
70°	0.0	0.0	3.1	6.2	9.3	15.4	24.7	37.0	52.5	105.0
72.5°	0.0	0.0	3.1	3.1	6.2	15.4	18.5	24.7	37.0	52.5
75°	0.0	0.0	3.1	3.1	9.3	18.5	15.4	18.5	24.7	34.0
77.5°	0.0	0.0	3.1	6.2	9.3	18.5	15.4	18.5	18.5	21.6
80°	0.0	0.0	3.1	6.2	12.3	21.6	18.5	18.5	15.4	15.4
82.5°	0.0	0.0	3.1	9.3	12.3	27.8	27.8	24.7	12.3	9.3
85°	0.0	0.0	6.2	12.3	18.5	30.9	30.9	24.7	9.3	6.2
87.5°	0.0	0.0	6.2	9.3	15.4	21.6	30.9	24.7	9.3	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°
16683.7	0°	16683.7	16683.7	16683.7	16683.7	16683.7	16683.7	16683.7	16683.7	16683.7
16631.2	2.5°	16714.6	16696.1	16757.8	16782.5	16816.5	16686.8	16606.5	16609.6	16461.4
16442.9	5°	16541.7	16544.8	16625.0	16618.9	16652.8	16581.8	16551.0	16498.5	16368.8
16205.2	7.5°	16322.5	16294.7	16371.9	16430.5	16344.1	16393.5	16322.5	16347.2	16270.0
15995.2	10°	16152.7	16087.9	16158.9	16199.0	16202.1	16152.7	16084.8	16019.9	15992.2
15668.0	12.5°	15776.0	15692.7	15813.1	15868.7	15859.4	15763.7	15686.5	15701.9	15612.4
15093.8	15°	15257.4	15260.5	15346.9	15399.4	15350.0	15328.4	15334.6	15297.5	15220.3
14300.3	17.5°	14463.9	14510.3	14738.7	14865.3	14893.1	14849.9	14828.2	14785.0	14707.8
13034.5	20°	13142.6	13420.4	13828.0	14220.0	14297.2	14284.9	14207.7	14189.2	14146.0
11781.1	22.5°	11981.8	12188.6	12661.0	13272.3	13587.2	13618.0	13525.4	13497.6	13451.3
10660.4	25°	10780.8	11003.1	11429.1	12092.9	12744.3	12877.1	12861.6	12778.3	12728.9
9666.3	27.5°	9768.2	9990.5	10376.4	10975.3	11673.0	12099.1	12139.2	12006.5	12003.4
8780.2	30°	8854.3	9160.0	9453.3	9941.1	10617.2	11256.3	11324.2	11231.6	11240.8
7968.3	32.5°	8138.1	8391.2	8641.3	8968.6	9530.5	10274.5	10540.0	10453.6	10419.6
7292.2	35°	7406.4	7579.3	7835.5	8135.0	8517.8	9255.7	9715.7	9650.9	9616.9
6378.3	37.5°	6572.8	6869.2	7054.5	7391.0	7690.4	8277.0	8925.4	8916.1	8845.1
5600.3	40°	5717.7	6029.5	6310.4	6650.0	6881.6	7347.7	8067.1	8064.0	8073.3
4794.6	42.5°	4942.7	5229.9	5569.5	5939.9	6162.2	6501.8	7273.7	7316.9	7369.4
4130.8	45°	4241.9	4501.3	4816.2	5266.9	5535.5	5730.0	6415.4	6613.0	6609.9
3538.0	47.5°	3612.1	3856.0	4121.5	4559.9	4902.6	5078.6	5646.7	5927.6	5909.1
2902.1	50°	3031.7	3247.8	3525.7	3843.7	4303.7	4458.0	4881.0	5251.5	5223.7
2312.4	52.5°	2439.0	2738.4	2973.1	3263.3	3748.0	3899.2	4226.5	4587.7	4566.1
1735.1	55°	1901.8	2192.0	2476.0	2726.1	3133.6	3359.0	3593.6	3964.1	3957.9
1358.4	57.5°	1438.7	1756.7	2025.3	2263.0	2587.1	2865.0	3053.3	3389.8	3433.1
929.3	60°	1065.1	1309.0	1599.2	1864.7	2121.0	2408.1	2534.7	2865.0	2883.5
636.0	62.5°	725.5	994.1	1278.1	1518.9	1710.4	2006.7	2121.0	2392.6	2426.6
407.5	65°	503.2	676.1	1000.3	1173.2	1407.8	1661.0	1775.2	1991.3	2059.2
234.6	67.5°	333.4	481.6	781.1	938.5	1170.1	1343.0	1488.1	1664.0	1738.1
148.2	70°	182.2	355.0	558.8	740.9	941.6	1108.3	1250.4	1392.4	1457.2
67.9	72.5°	123.5	237.7	389.0	586.6	759.5	923.1	1049.7	1154.6	1157.7
40.1	75°	61.7	160.5	296.4	453.8	592.8	753.3	867.5	929.3	855.2
24.7	77.5°	37.0	117.3	240.8	364.3	481.6	608.2	673.0	707.0	586.6
18.5	80°	21.6	83.4	188.3	290.2	333.4	447.7	509.4	518.7	392.1
12.3	82.5°	15.4	61.7	148.2	213.0	203.8	314.9	382.8	370.5	250.1
9.3	85°	9.3	43.2	92.6	132.8	123.5	206.8	222.3	228.5	145.1
6.2	87.5°	6.2	24.7	49.4	71.0	58.7	89.5	89.5	108.1	71.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
16683.7
16270.0
16337.9
16140.3
15868.7
15535.2
15143.1
14673.9
14047.2
13439.0
12676.4
11997.2
11194.5
10422.7
9570.6
8903.7
8073.3
7341.6
6616.1
5915.2
5248.4
4612.4
3973.3
3414.5
2911.3
2432.8
2043.8
1728.9
1432.5
1129.9
799.6
565.0
367.4
231.5
132.8
61.7
0.0

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