

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: P638066

Luminaire Tested: **IFLD-L-SA7E-722-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638066  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7E-722-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (112) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31984.3 lumens  
Efficiency: N/A  
Efficacy: 60.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

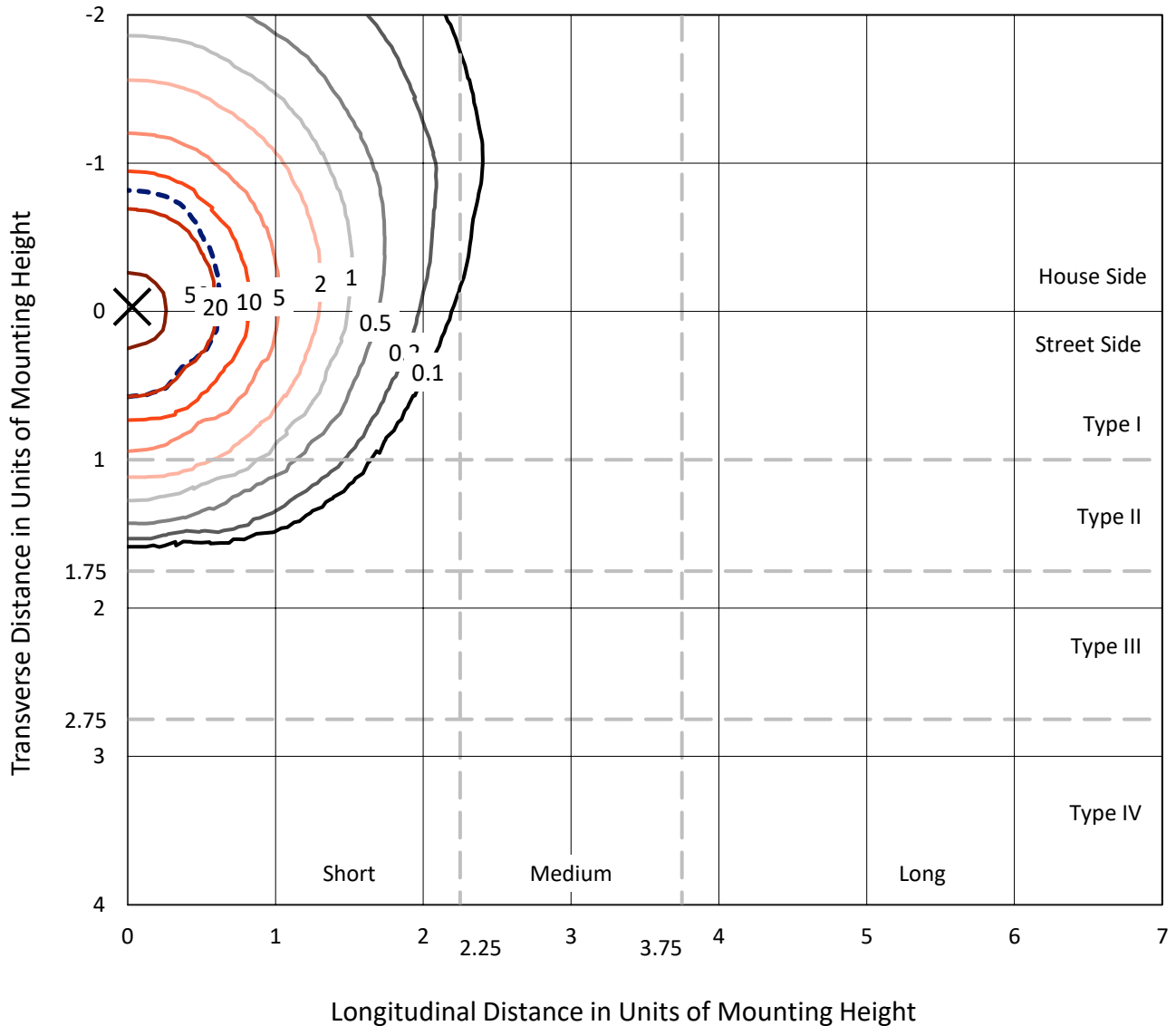
Input Watts (W): 532.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

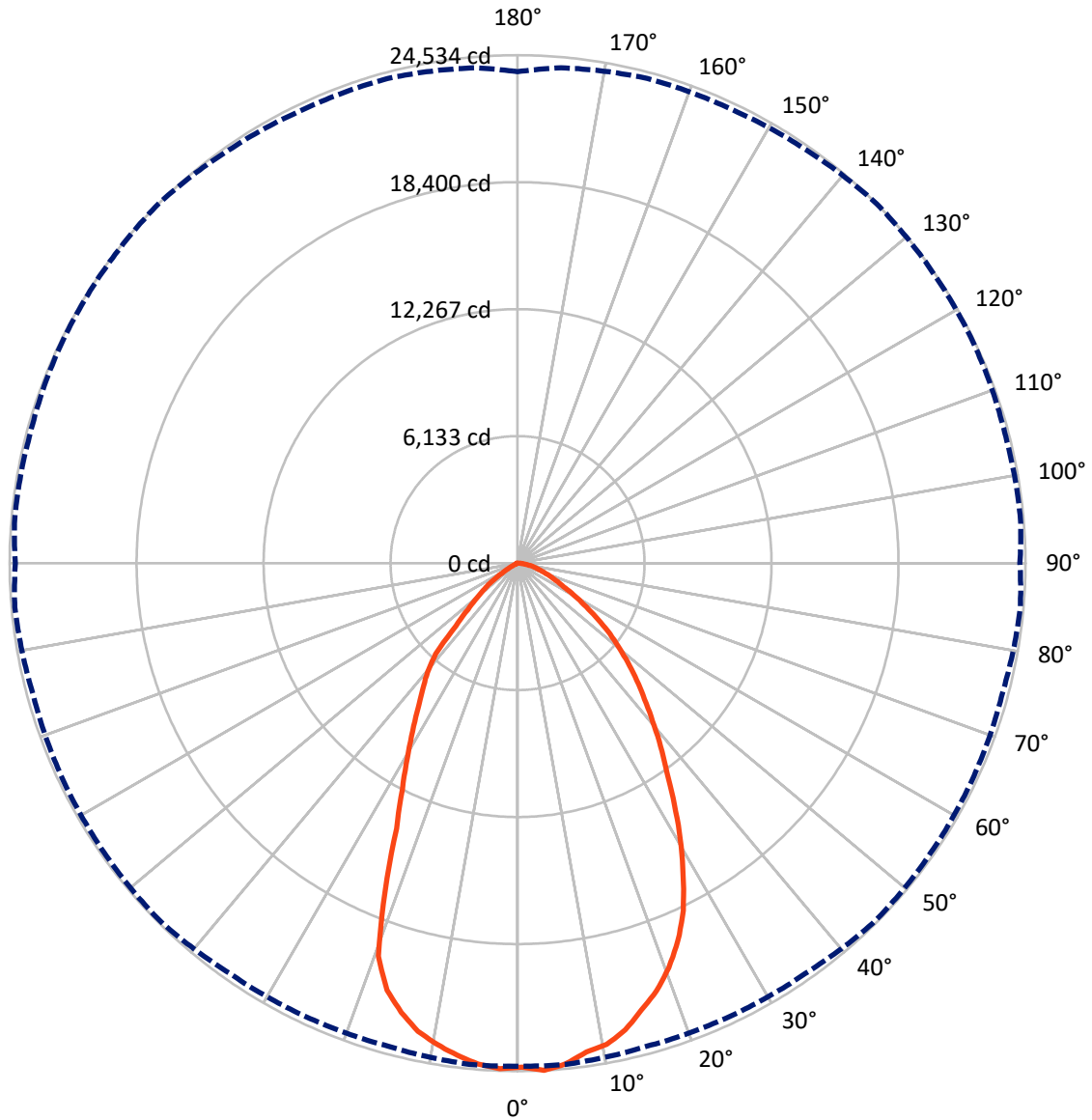
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 60.8 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	18942.7	0.0	18942.7
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	13041.6	0.0	13041.6
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	31984.3	0.0	31984.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2282.7	7.1
10°-20°	6121.2	19.1
20°-30°	7465.2	23.3
30°-40°	6815.6	21.3
40°-50°	4925.5	15.4
50°-60°	2689.4	8.4
60°-70°	1112.0	3.5
70°-80°	450.3	1.4
80°-90°	122.5	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°	31984.3	100.0
0°-180°	31984.3	100.0



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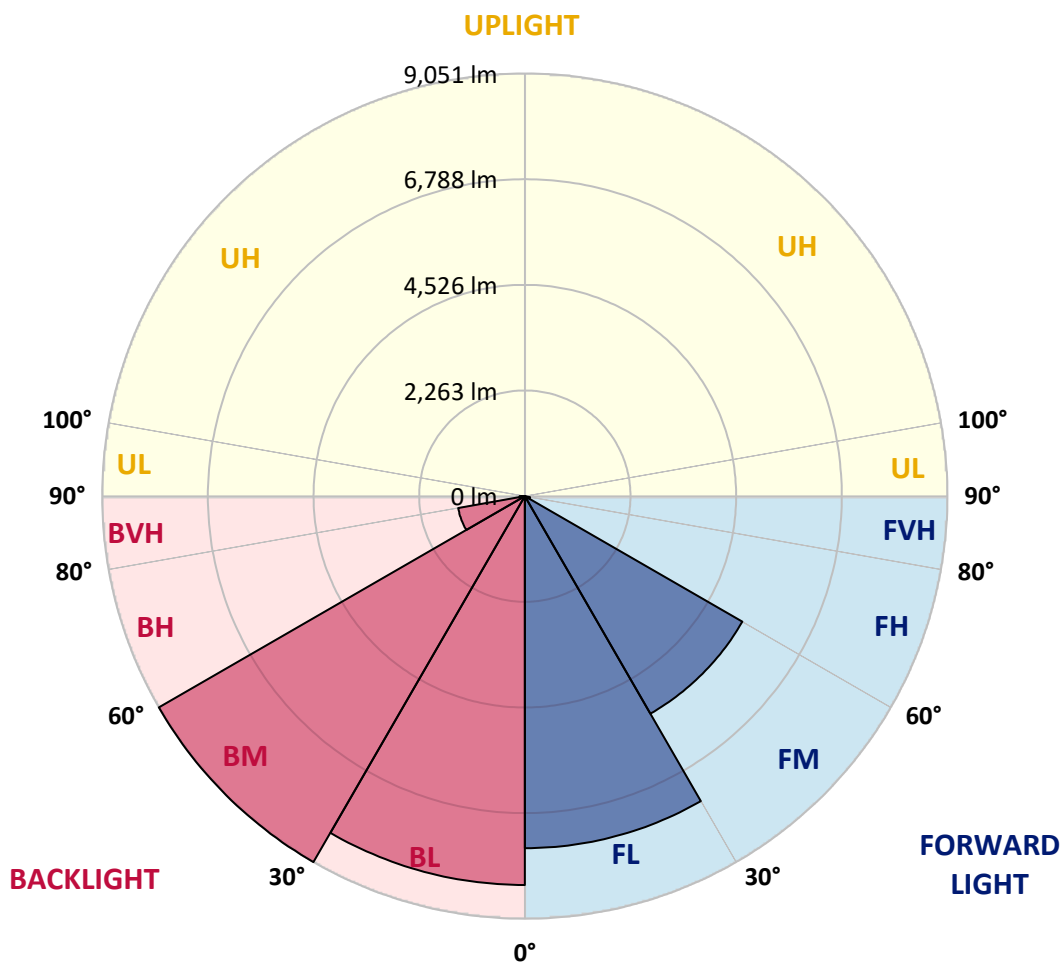
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7539.9	23.6			
FM (30°-60°)	5379.2	16.8			
FH (60°-80°)	112.7	0.4			G0/660
FVH (80°-90°)	9.8	0.0			G0/10
BL (0°-30°)	8329.2	26.0	B5		
BM (30°-60°)	9051.3	28.3	B5		
BH (60°-80°)	1449.6	4.5	B3/2500		G3/2500
BVH (80°-90°)	112.7	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	24340.0	24340.0	24340.0	24340.0	24340.0	24340.0	24340.0	24340.0	24340.0	24340.0
2.5°	24294.9	24326.5	24155.3	24173.3	24204.8	24434.6	24376.0	24322.0	24245.4	24376.0
5°	24263.4	24281.4	24101.3	24038.2	24065.2	24272.4	24083.2	24083.2	24065.2	24042.7
7.5°	24020.2	24029.2	23889.6	23777.0	23849.0	23943.6	23804.0	23871.5	23772.5	23849.0
10°	23655.4	23596.8	23430.1	23398.6	23479.7	23569.8	23475.2	23538.2	23448.2	23506.7
12.5°	23119.4	23029.3	22894.2	22853.6	22993.3	23114.9	23038.3	23002.3	22885.2	23029.3
15°	21052.0	20984.4	21290.7	21826.7	22308.6	22412.2	22331.2	22367.2	22124.0	22164.5
17.5°	17327.1	17201.0	17529.8	18800.0	20610.6	21565.5	21493.4	21259.2	20898.9	20979.9
20°	15746.2	15710.2	15674.1	15975.9	17241.6	20137.7	20236.8	19642.2	19128.8	19016.2
22.5°	14854.4	14840.9	14804.9	14872.4	15205.7	17065.9	18200.9	17651.4	17309.1	17277.6
25°	14039.2	14016.7	13908.6	13994.1	13994.1	14102.2	15557.0	15890.3	15588.6	15552.5
27.5°	13210.4	13169.9	13151.9	13192.4	12985.2	12255.6	12624.9	14250.9	14093.2	14102.2
30°	12314.1	12300.6	12251.1	12336.6	11697.1	10791.7	10557.5	12764.5	12796.0	12787.0
32.5°	10980.9	11039.5	11264.7	11359.3	10305.3	9557.6	9165.8	11044.0	11688.0	11674.5
35°	7976.7	7976.7	8710.9	10075.6	9030.7	8467.6	8256.0	9364.0	10593.6	10638.6
37.5°	6557.9	6580.4	6724.6	7346.1	7792.0	7593.9	7530.8	7882.1	9188.3	9260.4
40°	5900.3	5900.3	5900.3	5643.6	5630.1	6841.7	6805.6	6693.0	7936.2	8093.8
42.5°	5301.3	5314.8	5323.8	4675.2	4314.9	5913.8	5832.8	5661.6	6814.7	6999.3
45°	4684.2	4706.7	4733.8	3909.5	3751.9	4256.3	4936.5	4747.3	5706.7	5945.4
47.5°	2860.1	2896.1	3508.7	3315.0	3333.0	3283.5	4026.6	3995.1	4679.7	5017.5
50°	1932.2	1945.8	2004.3	2103.4	2860.1	2580.8	2851.1	3306.0	3553.7	4067.2
52.5°	1621.5	1644.0	1499.9	1364.7	1878.2	2017.8	1990.8	2454.7	2553.8	3188.9
55°	1139.5	1211.6	1144.0	1130.5	1067.5	1567.4	1508.9	1887.2	1950.3	2423.2
57.5°	117.1	135.1	234.2	842.3	698.1	887.3	1076.5	1382.7	1445.8	1788.1
60°	9.0	9.0	22.5	117.1	509.0	531.5	743.2	851.3	972.9	1247.6
62.5°	0.0	4.5	9.0	18.0	81.1	283.8	373.8	445.9	585.5	806.2
65°	0.0	0.0	4.5	13.5	18.0	108.1	144.1	234.2	319.8	500.0
67.5°	0.0	0.0	4.5	9.0	13.5	27.0	49.5	85.6	171.2	283.8
70°	0.0	0.0	4.5	9.0	13.5	22.5	36.0	54.0	76.6	153.1
72.5°	0.0	0.0	4.5	4.5	9.0	22.5	27.0	36.0	54.0	76.6
75°	0.0	0.0	4.5	4.5	13.5	27.0	22.5	27.0	36.0	49.5
77.5°	0.0	0.0	4.5	9.0	13.5	27.0	22.5	27.0	27.0	31.5
80°	0.0	0.0	4.5	9.0	18.0	31.5	27.0	27.0	22.5	22.5
82.5°	0.0	0.0	4.5	13.5	18.0	40.5	40.5	36.0	18.0	13.5
85°	0.0	0.0	9.0	18.0	27.0	45.0	45.0	36.0	13.5	9.0
87.5°	0.0	0.0	9.0	13.5	22.5	31.5	45.0	36.0	13.5	4.5
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°
24340.0	0°	24340.0	24340.0	24340.0	24340.0	24340.0	24340.0	24340.0	24340.0	24340.0
24263.4	2.5°	24385.0	24358.0	24448.1	24484.1	24533.6	24344.5	24227.4	24231.9	24015.7
23988.7	5°	24132.8	24137.3	24254.4	24245.4	24294.9	24191.3	24146.3	24069.7	23880.6
23641.8	7.5°	23813.0	23772.5	23885.1	23970.6	23844.5	23916.6	23813.0	23849.0	23736.4
23335.6	10°	23565.3	23470.7	23574.3	23632.8	23637.3	23565.3	23466.2	23371.6	23331.1
22858.1	12.5°	23015.8	22894.2	23069.8	23150.9	23137.4	22997.8	22885.2	22907.7	22777.1
22020.4	15°	22259.1	22263.6	22389.7	22466.3	22394.2	22362.7	22371.7	22317.6	22205.0
20862.8	17.5°	21101.5	21169.1	21502.4	21687.1	21727.6	21664.6	21633.0	21570.0	21457.4
19016.2	20°	19173.8	19579.2	20173.7	20745.7	20858.3	20840.3	20727.7	20700.7	20637.6
17187.5	22.5°	17480.3	17782.0	18471.2	19363.0	19822.4	19867.4	19732.3	19691.8	19624.2
15552.5	25°	15728.2	16052.5	16674.0	17642.4	18592.8	18786.5	18763.9	18642.3	18570.3
14102.2	27.5°	14250.9	14575.2	15138.2	16012.0	17029.9	17651.4	17710.0	17516.3	17511.8
12809.6	30°	12917.7	13363.6	13791.4	14503.1	15489.5	16421.8	16520.9	16385.8	16399.3
11625.0	32.5°	11872.7	12242.0	12606.9	13084.3	13904.0	14989.5	15376.9	15250.8	15201.2
10638.6	35°	10805.3	11057.5	11431.3	11868.2	12426.7	13503.2	14174.3	14079.7	14030.2
9305.4	37.5°	9589.2	10021.5	10291.8	10782.7	11219.6	12075.4	13021.3	13007.7	12904.1
8170.4	40°	8341.5	8796.4	9206.3	9701.8	10039.6	10719.7	11769.1	11764.6	11778.1
6994.8	42.5°	7211.0	7629.9	8125.3	8665.8	8990.1	9485.6	10611.6	10674.6	10751.2
6026.4	45°	6188.6	6566.9	7026.3	7683.9	8075.8	8359.5	9359.4	9647.7	9643.2
5161.7	47.5°	5269.8	5625.6	6012.9	6652.5	7152.5	7409.2	8237.9	8647.8	8620.8
4233.8	50°	4423.0	4738.3	5143.6	5607.6	6278.7	6503.9	7120.9	7661.4	7620.9
3373.5	52.5°	3558.2	3995.1	4337.4	4760.8	5467.9	5688.6	6166.1	6693.0	6661.5
2531.3	55°	2774.5	3197.9	3612.3	3977.1	4571.6	4900.4	5242.7	5783.2	5774.2
1981.8	57.5°	2098.9	2562.8	2954.7	3301.5	3774.4	4179.8	4454.5	4945.5	5008.5
1355.7	60°	1553.9	1909.7	2333.1	2720.5	3094.3	3513.2	3697.8	4179.8	4206.8
927.8	62.5°	1058.5	1450.3	1864.7	2216.0	2495.3	2927.6	3094.3	3490.7	3540.2
594.5	65°	734.2	986.4	1459.3	1711.5	2053.9	2423.2	2589.8	2905.1	3004.2
342.3	67.5°	486.4	702.6	1139.5	1369.2	1707.0	1959.3	2171.0	2427.7	2535.8
216.2	70°	265.7	518.0	815.2	1081.0	1373.7	1617.0	1824.1	2031.3	2125.9
99.1	72.5°	180.2	346.8	567.5	855.8	1108.0	1346.7	1531.4	1684.5	1689.0
58.6	75°	90.1	234.2	432.4	662.1	864.8	1099.0	1265.6	1355.7	1247.6
36.0	77.5°	54.0	171.2	351.3	531.5	702.6	887.3	981.9	1031.4	855.8
27.0	80°	31.5	121.6	274.7	423.4	486.4	653.1	743.2	756.7	572.0
18.0	82.5°	22.5	90.1	216.2	310.8	297.3	459.4	558.5	540.5	364.8
13.5	85°	13.5	63.1	135.1	193.7	180.2	301.8	324.3	333.3	211.7
9.0	87.5°	9.0	36.0	72.1	103.6	85.6	130.6	130.6	157.6	103.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
24340.0
23736.4
23835.5
23547.3
23150.9
22664.5
22092.4
21407.8
20493.5
19606.2
18493.7
17502.8
16331.7
15205.7
13962.6
12989.7
11778.1
10710.7
9652.2
8629.8
7656.9
6729.1
5796.7
4981.5
4247.3
3549.2
2981.7
2522.3
2089.9
1648.5
1166.6
824.2
536.0
337.8
193.7
90.1
0.0

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