

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: P638178

Luminaire Tested: **IFLD-L-SA7A-740-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638178  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-740-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (112) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24075.9 lumens  
Efficiency: N/A  
Efficacy: 110.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

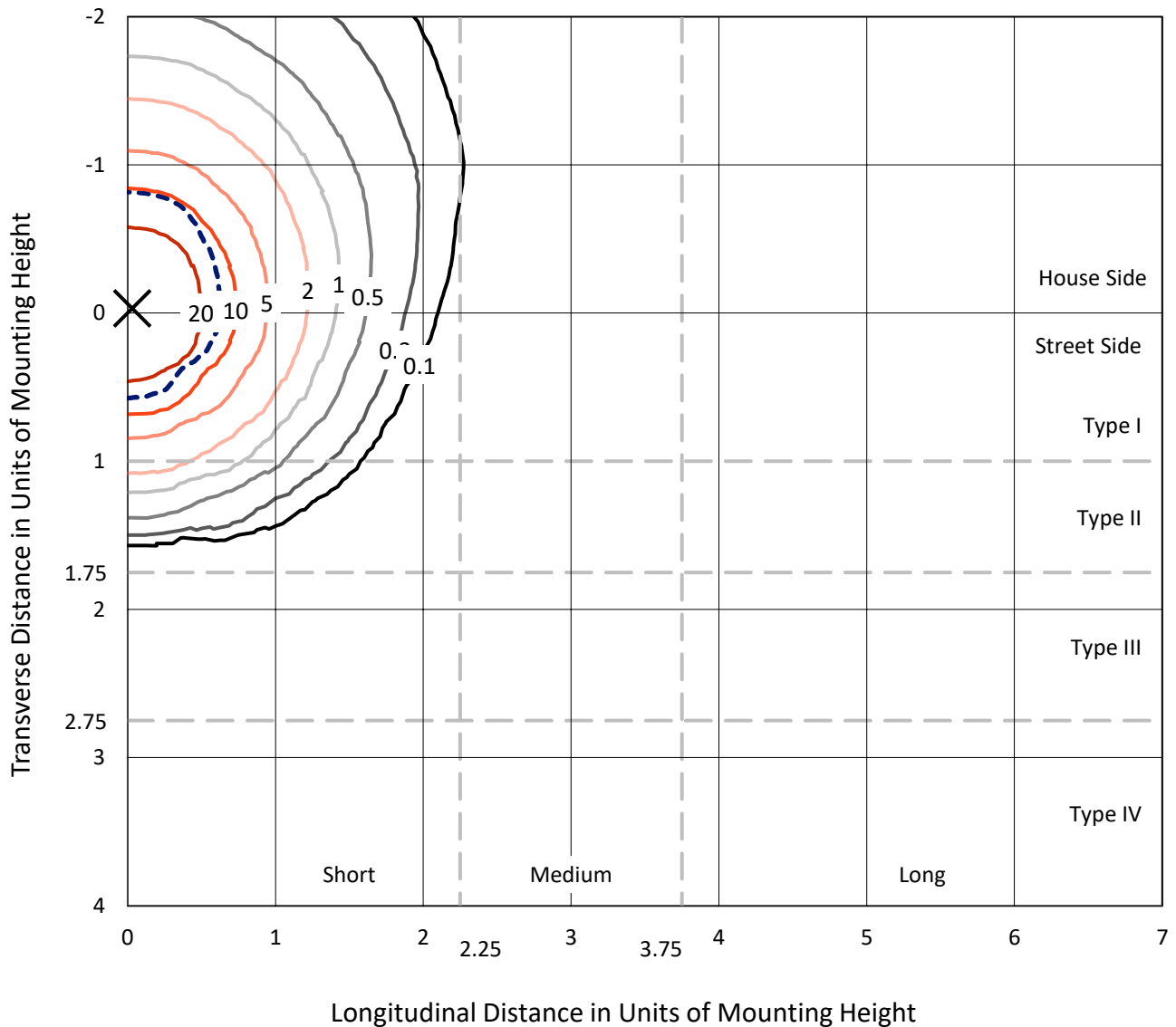
Input Watts (W): 217.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

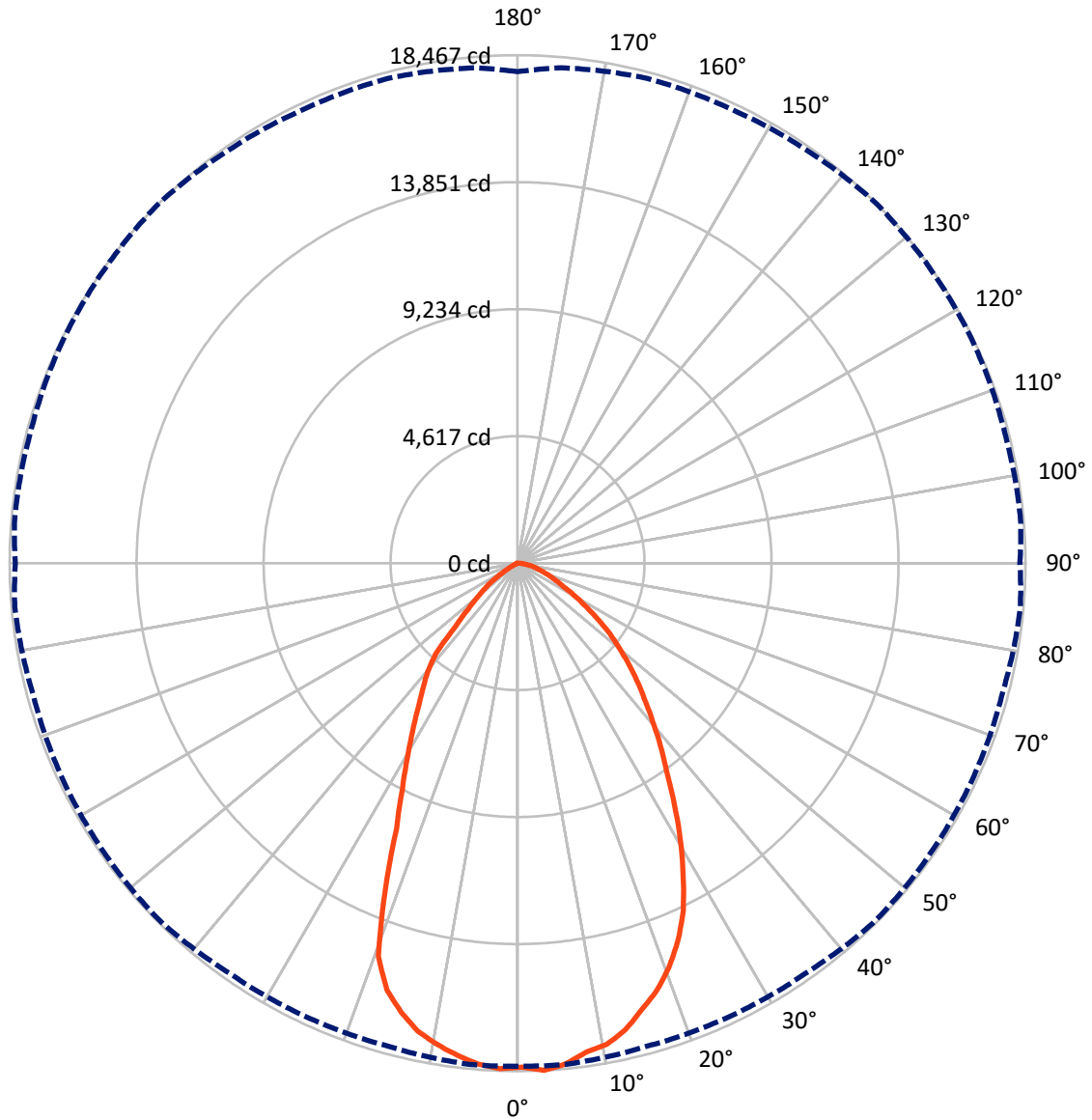
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 45.8 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	14259.0	0.0	14259.0
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	9816.9	0.0	9816.9
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	24075.9	0.0	24075.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1718.3	7.1
10°-20°	4607.7	19.1
20°-30°	5619.3	23.3
30°-40°	5130.4	21.3
40°-50°	3707.6	15.4
50°-60°	2024.4	8.4
60°-70°	837.0	3.5
70°-80°	339.0	1.4
80°-90°	92.2	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°	24075.9	100.0
0°-180°	24075.9	100.0



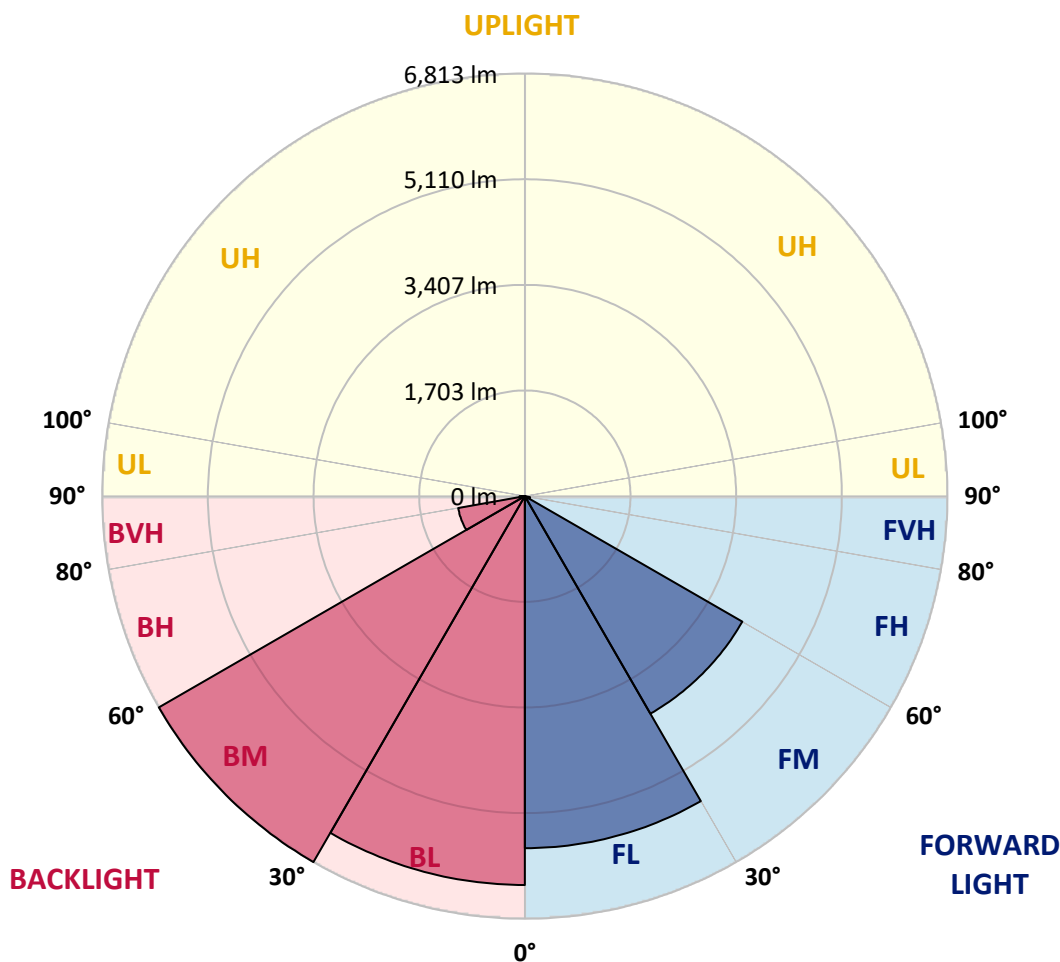
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5675.6	23.6			
FM (30°-60°)	4049.1	16.8			
FH (60°-80°)	84.8	0.4			G0/660
FVH (80°-90°)	7.4	0.0			G0/10
BL (0°-30°)	6269.7	26.0	B5		
BM (30°-60°)	6813.3	28.3	B4/8500		
BH (60°-80°)	1091.2	4.5	B3/2500		G3/2500
BVH (80°-90°)	84.8	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-G3**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	18321.7	18321.7	18321.7	18321.7	18321.7	18321.7	18321.7	18321.7	18321.7	18321.7
2.5°	18287.8	18311.5	18182.7	18196.2	18220.0	18392.9	18348.8	18308.1	18250.5	18348.8
5°	18264.0	18277.6	18142.0	18094.5	18114.8	18270.8	18128.4	18128.4	18114.8	18097.9
7.5°	18080.9	18087.7	17982.6	17897.9	17952.1	18023.3	17918.2	17969.1	17894.5	17952.1
10°	17806.3	17762.2	17636.8	17613.1	17674.1	17741.9	17670.7	17718.2	17650.4	17694.4
12.5°	17402.9	17335.1	17233.3	17202.8	17307.9	17399.5	17341.8	17314.7	17226.6	17335.1
15°	15846.7	15795.8	16026.4	16429.8	16792.6	16870.6	16809.5	16836.7	16653.6	16684.1
17.5°	13042.8	12947.9	13195.4	14151.5	15514.4	16233.2	16178.9	16002.6	15731.4	15792.4
20°	11852.8	11825.7	11798.6	12025.7	12978.4	15158.4	15233.0	14785.5	14399.0	14314.2
22.5°	11181.5	11171.3	11144.2	11195.1	11446.0	12846.2	13700.6	13286.9	13029.3	13005.5
25°	10567.8	10550.9	10469.5	10533.9	10533.9	10615.3	11710.4	11961.3	11734.1	11707.0
27.5°	9944.0	9913.5	9899.9	9930.4	9774.5	9225.2	9503.3	10727.2	10608.5	10615.3
30°	9269.3	9259.2	9221.9	9286.3	8804.8	8123.4	7947.1	9608.4	9632.1	9625.3
32.5°	8265.8	8309.8	8479.4	8550.6	7757.2	7194.4	6899.4	8313.2	8798.1	8787.9
35°	6004.4	6004.4	6557.0	7584.3	6797.7	6373.9	6214.6	7048.6	7974.2	8008.1
37.5°	4936.4	4953.4	5061.9	5529.7	5865.4	5716.2	5668.7	5933.2	6916.4	6970.6
40°	4441.4	4441.4	4441.4	4248.2	4238.0	5150.0	5122.9	5038.1	5973.9	6092.5
42.5°	3990.5	4000.7	4007.4	3519.2	3248.0	4451.6	4390.6	4261.7	5129.7	5268.7
45°	3526.0	3543.0	3563.3	2942.9	2824.2	3203.9	3715.9	3573.5	4295.6	4475.3
47.5°	2152.9	2180.0	2641.1	2495.3	2508.9	2471.6	3031.0	3007.3	3522.6	3776.9
50°	1454.5	1464.6	1508.7	1583.3	2152.9	1942.7	2146.1	2488.5	2675.0	3061.5
52.5°	1220.5	1237.5	1129.0	1027.3	1413.8	1518.9	1498.6	1847.8	1922.4	2400.4
55°	857.8	912.0	861.2	851.0	803.5	1179.9	1135.8	1420.6	1468.0	1824.0
57.5°	88.2	101.7	176.3	634.0	525.5	667.9	810.3	1040.8	1088.3	1346.0
60°	6.8	6.8	17.0	88.2	383.1	400.1	559.4	640.8	732.3	939.1
62.5°	0.0	3.4	6.8	13.6	61.0	213.6	281.4	335.6	440.8	606.9
65°	0.0	0.0	3.4	10.2	13.6	81.4	108.5	176.3	240.7	376.3
67.5°	0.0	0.0	3.4	6.8	10.2	20.3	37.3	64.4	128.8	213.6
70°	0.0	0.0	3.4	6.8	10.2	17.0	27.1	40.7	57.6	115.3
72.5°	0.0	0.0	3.4	3.4	6.8	17.0	20.3	27.1	40.7	57.6
75°	0.0	0.0	3.4	3.4	10.2	20.3	17.0	20.3	27.1	37.3
77.5°	0.0	0.0	3.4	6.8	10.2	20.3	17.0	20.3	20.3	23.7
80°	0.0	0.0	3.4	6.8	13.6	23.7	20.3	20.3	17.0	17.0
82.5°	0.0	0.0	3.4	10.2	13.6	30.5	30.5	27.1	13.6	10.2
85°	0.0	0.0	6.8	13.6	20.3	33.9	33.9	27.1	10.2	6.8
87.5°	0.0	0.0	6.8	10.2	17.0	23.7	33.9	27.1	10.2	3.4
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°
18321.7	0°	18321.7	18321.7	18321.7	18321.7	18321.7	18321.7	18321.7	18321.7	18321.7
18264.0	2.5°	18355.6	18335.2	18403.0	18430.2	18467.4	18325.1	18236.9	18240.3	18077.6
18057.2	5°	18165.7	18169.1	18257.2	18250.5	18287.8	18209.8	18175.9	18118.2	17975.8
17796.2	7.5°	17925.0	17894.5	17979.2	18043.7	17948.7	18003.0	17925.0	17952.1	17867.4
17565.6	10°	17738.5	17667.3	17745.3	17789.4	17792.8	17738.5	17663.9	17592.7	17562.2
17206.2	12.5°	17324.9	17233.3	17365.6	17426.6	17416.4	17311.3	17226.6	17243.5	17145.2
16575.6	15°	16755.3	16758.7	16853.6	16911.3	16857.0	16833.3	16840.1	16799.4	16714.6
15704.3	17.5°	15884.0	15934.8	16185.7	16324.7	16355.2	16307.8	16284.0	16236.6	16151.8
14314.2	20°	14432.9	14738.0	15185.6	15616.1	15700.9	15687.3	15602.6	15582.2	15534.8
12937.7	22.5°	13158.1	13385.3	13904.0	14575.3	14921.1	14955.0	14853.3	14822.8	14771.9
11707.0	25°	11839.2	12083.3	12551.2	13280.2	13995.5	14141.3	14124.4	14032.8	13978.6
10615.3	27.5°	10727.2	10971.3	11395.1	12052.8	12819.1	13286.9	13331.0	13185.2	13181.8
9642.3	30°	9723.6	10059.3	10381.4	10917.1	11659.5	12361.4	12435.9	12334.2	12344.4
8750.6	32.5°	8937.1	9215.1	9489.7	9849.1	10466.1	11283.2	11574.8	11479.9	11442.6
8008.1	35°	8133.5	8323.4	8604.8	8933.7	9354.1	10164.4	10669.6	10598.4	10561.1
7004.5	37.5°	7218.1	7543.6	7747.0	8116.6	8445.5	9089.6	9801.6	9791.4	9713.5
6150.2	40°	6279.0	6621.4	6930.0	7302.9	7557.2	8069.1	8859.1	8855.7	8865.9
5265.3	42.5°	5428.0	5743.3	6116.3	6523.1	6767.2	7140.2	7987.8	8035.2	8092.9
4536.3	45°	4658.4	4943.2	5289.0	5784.0	6079.0	6292.6	7045.2	7262.2	7258.8
3885.4	47.5°	3966.8	4234.6	4526.2	5007.6	5383.9	5577.2	6201.0	6509.5	6489.2
3187.0	50°	3329.4	3566.7	3871.8	4221.0	4726.2	4895.7	5360.2	5767.1	5736.5
2539.4	52.5°	2678.4	3007.3	3264.9	3583.6	4115.9	4282.1	4641.4	5038.1	5014.4
1905.4	55°	2088.5	2407.2	2719.1	2993.7	3441.2	3688.7	3946.4	4353.3	4346.5
1491.8	57.5°	1579.9	1929.1	2224.1	2485.2	2841.1	3146.3	3353.1	3722.6	3770.1
1020.5	60°	1169.7	1437.5	1756.2	2047.8	2329.2	2644.5	2783.5	3146.3	3166.6
698.4	62.5°	796.7	1091.7	1403.6	1668.1	1878.3	2203.8	2329.2	2627.6	2664.8
447.5	65°	552.6	742.5	1098.5	1288.3	1546.0	1824.0	1949.5	2186.8	2261.4
257.7	67.5°	366.2	528.9	857.8	1030.7	1285.0	1474.8	1634.2	1827.4	1908.8
162.7	70°	200.0	389.9	613.7	813.7	1034.1	1217.1	1373.1	1529.1	1600.3
74.6	72.5°	135.6	261.1	427.2	644.2	834.0	1013.7	1152.7	1268.0	1271.4
44.1	75°	67.8	176.3	325.5	498.4	651.0	827.3	952.7	1020.5	939.1
27.1	77.5°	40.7	128.8	264.5	400.1	528.9	667.9	739.1	776.4	644.2
20.3	80°	23.7	91.5	206.8	318.7	366.2	491.6	559.4	569.6	430.6
13.6	82.5°	17.0	67.8	162.7	233.9	223.8	345.8	420.4	406.8	274.6
10.2	85°	10.2	47.5	101.7	145.8	135.6	227.2	244.1	250.9	159.3
6.8	87.5°	6.8	27.1	54.2	78.0	64.4	98.3	98.3	118.7	78.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
18321.7
17867.4
17941.9
17725.0
17426.6
17060.4
16629.9
16114.5
15426.3
14758.4
13920.9
13175.1
12293.6
11446.0
10510.2
9777.9
8865.9
8062.3
7265.6
6496.0
5763.7
5065.2
4363.4
3749.8
3197.1
2671.6
2244.4
1898.6
1573.1
1240.9
878.1
620.4
403.5
254.3
145.8
67.8
0.0

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