

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: P638270

Luminaire Tested: **IFLD-L-SA8A-827-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638270  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-827-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (128) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19369.4 lumens  
Efficiency: N/A  
Efficacy: 78.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G2

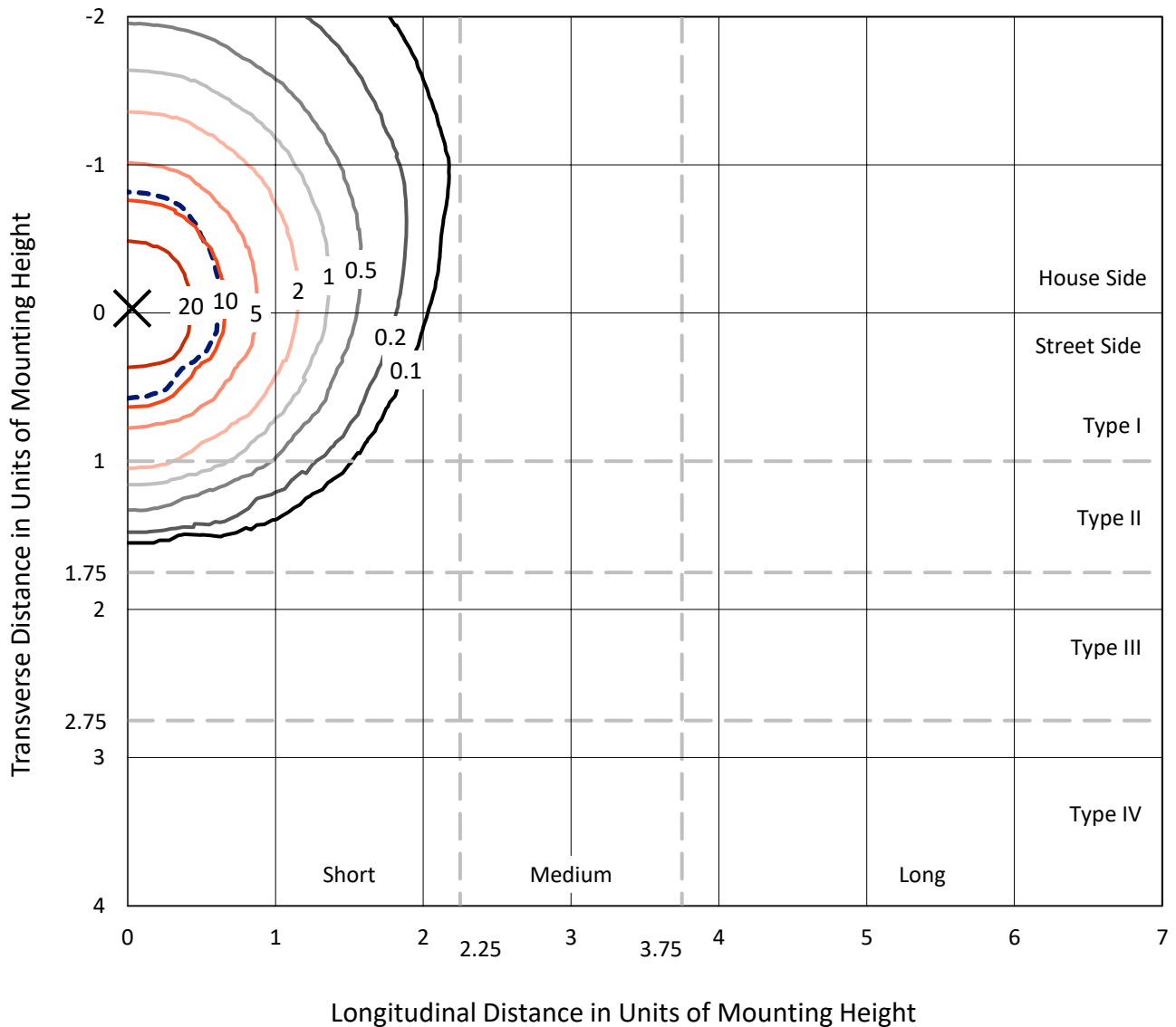
Input Watts (W): 247.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

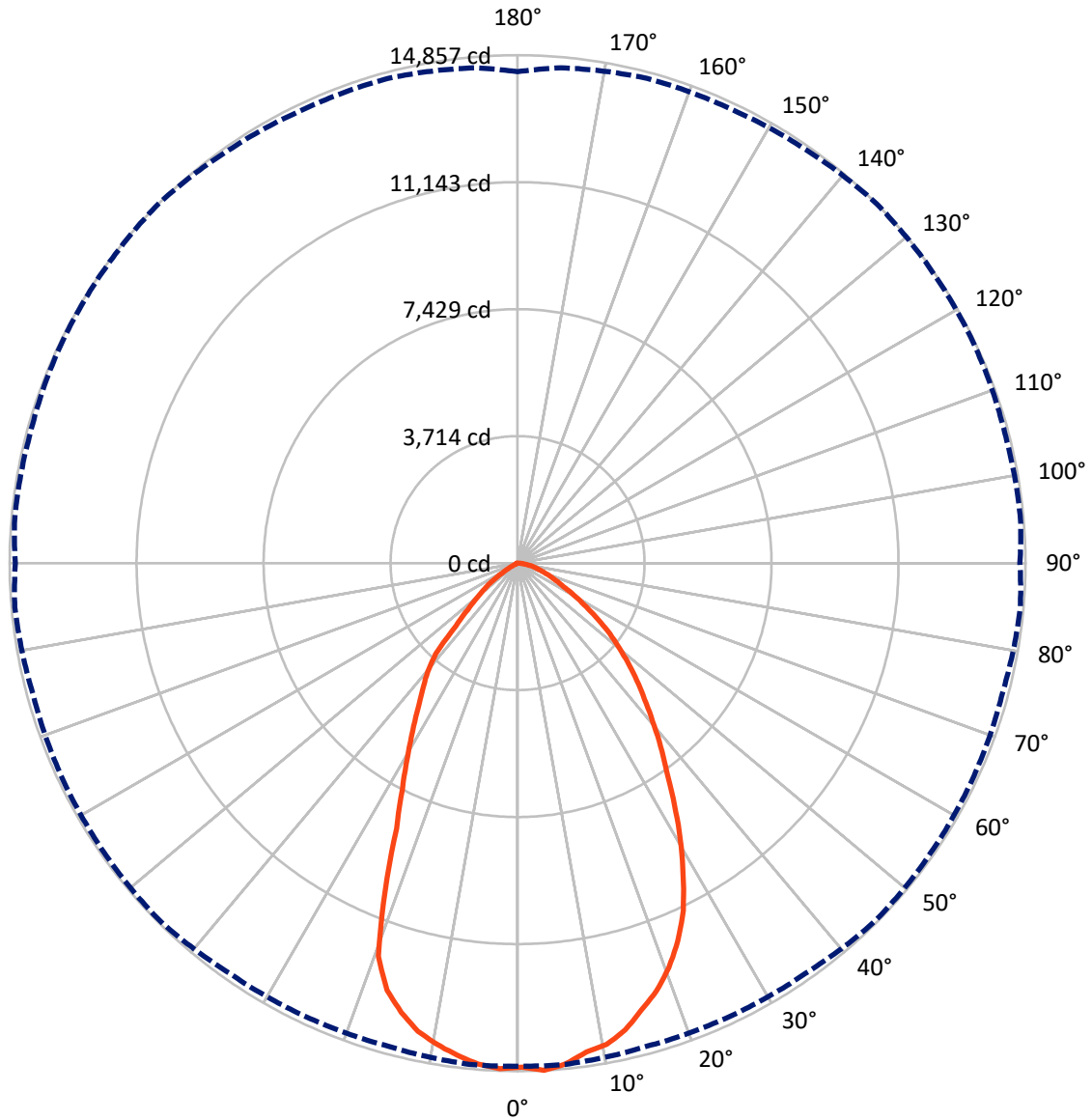
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 36.9 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	11471.6	0.0	11471.6
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	7897.9	0.0	7897.9
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	19369.4	0.0	19369.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1382.4	7.1
10°-20°	3707.0	19.1
20°-30°	4520.8	23.3
30°-40°	4127.5	21.3
40°-50°	2982.8	15.4
50°-60°	1628.7	8.4
60°-70°	673.4	3.5
70°-80°	272.7	1.4
80°-90°	74.2	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°	19369.4	100.0
0°-180°	19369.4	100.0



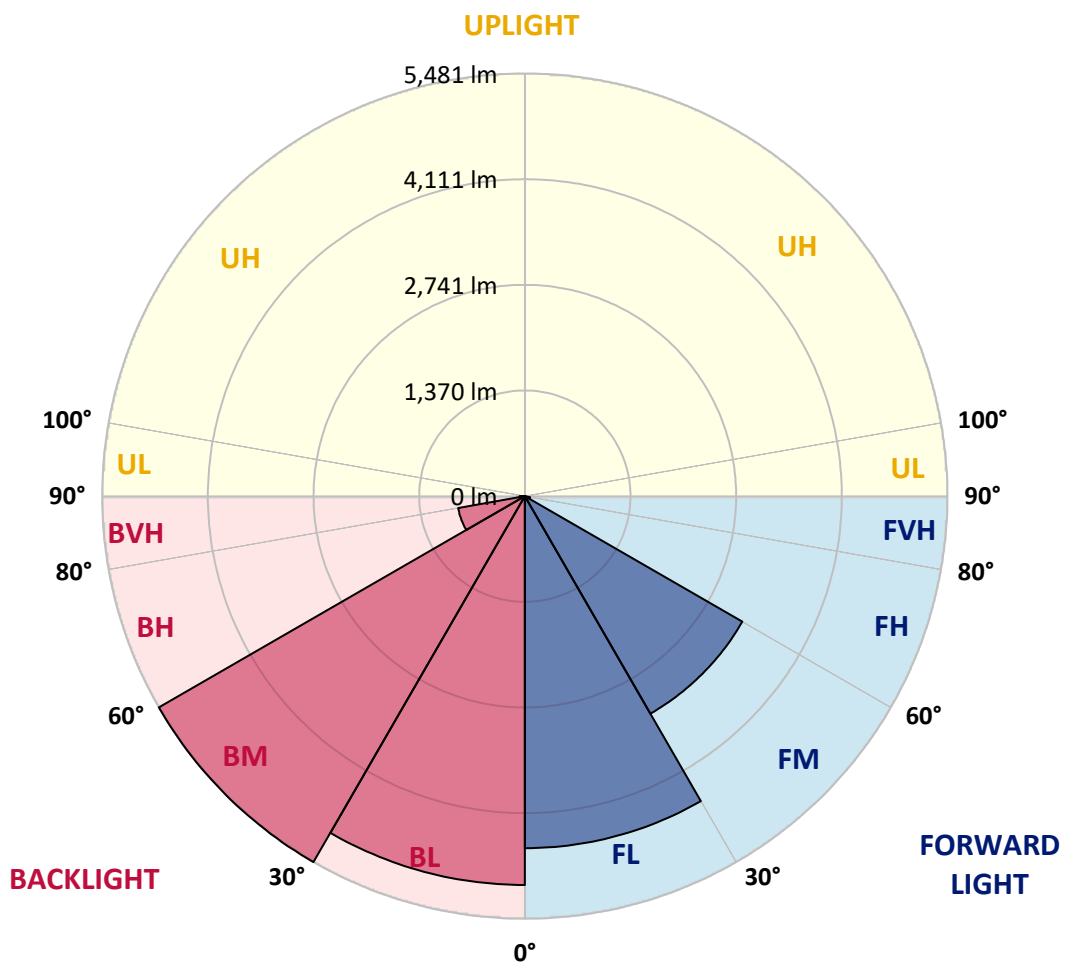
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4566.1	23.6			
FM (30°-60°)	3257.6	16.8			
FH (60°-80°)	68.3	0.4			G0/660
FVH (80°-90°)	5.9	0.0			G0/10
BL (0°-30°)	5044.1	26.0	B5		
BM (30°-60°)	5481.4	28.3	B4/8500		
BH (60°-80°)	877.9	4.5	B2/1000		G2/1000
BVH (80°-90°)	68.2	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°	14740.1	14740.1	14740.1	14740.1	14740.1	14740.1	14740.1	14740.1	14740.1	14740.1
2.5°	14712.8	14731.9	14628.2	14639.1	14658.2	14797.3	14761.9	14729.2	14682.8	14761.9
5°	14693.7	14704.6	14595.5	14557.3	14573.7	14699.2	14584.6	14584.6	14573.7	14560.0
7.5°	14546.4	14551.9	14467.3	14399.1	14442.8	14500.0	14415.5	14456.4	14396.4	14442.8
10°	14325.5	14290.0	14189.1	14170.0	14219.1	14273.6	14216.4	14254.5	14200.0	14235.5
12.5°	14000.9	13946.3	13864.5	13839.9	13924.5	13998.2	13951.8	13930.0	13859.0	13946.3
15°	12748.9	12708.0	12893.5	13218.1	13509.9	13572.6	13523.5	13545.4	13398.1	13422.6
17.5°	10493.2	10416.8	10615.9	11385.1	12481.6	13059.8	13016.2	12874.4	12656.2	12705.3
20°	9535.8	9513.9	9492.1	9674.9	10441.3	12195.2	12255.2	11895.2	11584.2	11516.0
22.5°	8995.7	8987.5	8965.7	9006.6	9208.4	10335.0	11022.3	10689.5	10482.2	10463.2
25°	8502.0	8488.4	8422.9	8474.7	8474.7	8540.2	9421.2	9623.0	9440.3	9418.5
27.5°	8000.1	7975.6	7964.7	7989.2	7863.7	7421.9	7645.5	8630.2	8534.7	8540.2
30°	7457.3	7449.1	7419.1	7471.0	7083.6	6535.4	6393.5	7730.1	7749.2	7743.7
32.5°	6649.9	6685.4	6821.8	6879.1	6240.8	5788.0	5550.7	6688.1	7078.2	7070.0
35°	4830.6	4830.6	5275.2	6101.7	5468.9	5127.9	4999.7	5670.7	6415.4	6442.6
37.5°	3971.4	3985.1	4072.3	4448.8	4718.8	4598.8	4560.6	4773.3	5564.3	5608.0
40°	3573.2	3573.2	3573.2	3417.7	3409.5	4143.3	4121.4	4053.2	4806.1	4901.5
42.5°	3210.4	3218.6	3224.0	2831.3	2613.1	3581.4	3532.3	3428.6	4126.9	4238.7
45°	2836.7	2850.4	2866.7	2367.6	2272.1	2577.6	2989.5	2874.9	3455.9	3600.5
47.5°	1732.0	1753.9	2124.8	2007.5	2018.4	1988.4	2438.5	2419.4	2834.0	3038.6
50°	1170.1	1178.3	1213.8	1273.8	1732.0	1562.9	1726.6	2002.1	2152.1	2463.0
52.5°	981.9	995.6	908.3	826.5	1137.4	1222.0	1205.6	1486.6	1546.6	1931.2
55°	690.1	733.7	692.8	684.6	646.4	949.2	913.8	1142.9	1181.1	1467.5
57.5°	70.9	81.8	141.8	510.1	422.8	537.3	651.9	837.4	875.6	1082.9
60°	5.5	5.5	13.6	70.9	308.2	321.9	450.1	515.5	589.2	755.6
62.5°	0.0	2.7	5.5	10.9	49.1	171.8	226.4	270.0	354.6	488.2
65°	0.0	0.0	2.7	8.2	10.9	65.5	87.3	141.8	193.7	302.8
67.5°	0.0	0.0	2.7	5.5	8.2	16.4	30.0	51.8	103.6	171.8
70°	0.0	0.0	2.7	5.5	8.2	13.6	21.8	32.7	46.4	92.7
72.5°	0.0	0.0	2.7	2.7	5.5	13.6	16.4	21.8	32.7	46.4
75°	0.0	0.0	2.7	2.7	8.2	16.4	13.6	16.4	21.8	30.0
77.5°	0.0	0.0	2.7	5.5	8.2	16.4	13.6	16.4	16.4	19.1
80°	0.0	0.0	2.7	5.5	10.9	19.1	16.4	16.4	13.6	13.6
82.5°	0.0	0.0	2.7	8.2	10.9	24.5	24.5	21.8	10.9	8.2
85°	0.0	0.0	5.5	10.9	16.4	27.3	27.3	21.8	8.2	5.5
87.5°	0.0	0.0	5.5	8.2	13.6	19.1	27.3	21.8	8.2	2.7
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°
14740.1	0°	14740.1	14740.1	14740.1	14740.1	14740.1	14740.1	14740.1	14740.1	14740.1
14693.7	2.5°	14767.3	14751.0	14805.5	14827.3	14857.4	14742.8	14671.9	14674.6	14543.7
14527.3	5°	14614.6	14617.3	14688.2	14682.8	14712.8	14650.1	14622.8	14576.4	14461.8
14317.3	7.5°	14420.9	14396.4	14464.6	14516.4	14440.0	14483.7	14420.9	14442.8	14374.6
14131.8	10°	14270.9	14213.6	14276.4	14311.8	14314.6	14270.9	14210.9	14153.6	14129.1
13842.7	12.5°	13938.1	13864.5	13970.9	14020.0	14011.8	13927.2	13859.0	13872.7	13793.6
13335.3	15°	13479.9	13482.6	13559.0	13605.4	13561.7	13542.6	13548.1	13515.4	13447.2
12634.3	17.5°	12778.9	12819.8	13021.7	13133.5	13158.0	13119.9	13100.8	13062.6	12994.4
11516.0	20°	11611.5	11857.0	12217.0	12563.4	12631.6	12620.7	12552.5	12536.1	12498.0
10408.6	22.5°	10585.9	10768.6	11186.0	11726.0	12004.3	12031.5	11949.7	11925.2	11884.2
9418.5	25°	9524.9	9721.2	10097.7	10684.1	11259.6	11376.9	11363.3	11289.6	11246.0
8540.2	27.5°	8630.2	8826.6	9167.5	9696.7	10313.1	10689.5	10725.0	10607.7	10605.0
7757.4	30°	7822.8	8092.9	8352.0	8782.9	9380.3	9944.9	10004.9	9923.1	9931.3
7040.0	32.5°	7190.0	7413.7	7634.6	7923.7	8420.2	9077.5	9312.1	9235.7	9205.7
6442.6	35°	6543.6	6696.3	6922.7	7187.3	7525.5	8177.4	8583.8	8526.5	8496.5
5635.3	37.5°	5807.1	6069.0	6232.6	6529.9	6794.5	7312.8	7885.6	7877.4	7814.6
4947.9	40°	5051.6	5327.0	5575.3	5875.3	6079.9	6491.7	7127.3	7124.5	7132.7
4236.0	42.5°	4366.9	4620.6	4920.6	5247.9	5444.3	5744.4	6426.3	6464.5	6510.8
3649.6	45°	3747.8	3976.9	4255.1	4653.3	4890.6	5062.5	5668.0	5842.6	5839.8
3125.9	47.5°	3191.3	3406.8	3641.4	4028.7	4331.5	4486.9	4988.8	5237.0	5220.7
2564.0	50°	2678.5	2869.5	3114.9	3395.9	3802.3	3938.7	4312.4	4639.7	4615.1
2043.0	52.5°	2154.8	2419.4	2626.7	2883.1	3311.3	3445.0	3734.1	4053.2	4034.2
1532.9	55°	1680.2	1936.6	2187.6	2408.5	2768.5	2967.7	3175.0	3502.3	3496.8
1200.2	57.5°	1271.1	1552.0	1789.3	1999.3	2285.7	2531.2	2697.6	2994.9	3033.1
821.0	60°	941.0	1156.5	1412.9	1647.5	1873.9	2127.5	2239.4	2531.2	2547.6
561.9	62.5°	641.0	878.3	1129.2	1342.0	1511.1	1773.0	1873.9	2113.9	2143.9
360.0	65°	444.6	597.3	883.7	1036.5	1243.8	1467.5	1568.4	1759.3	1819.3
207.3	67.5°	294.6	425.5	690.1	829.2	1033.8	1186.5	1314.7	1470.2	1535.7
130.9	70°	160.9	313.7	493.7	654.6	831.9	979.2	1104.7	1230.2	1287.4
60.0	72.5°	109.1	210.0	343.7	518.2	671.0	815.6	927.4	1020.1	1022.9
35.5	75°	54.6	141.8	261.9	401.0	523.7	665.5	766.5	821.0	755.6
21.8	77.5°	32.7	103.6	212.8	321.9	425.5	537.3	594.6	624.6	518.2
16.4	80°	19.1	73.6	166.4	256.4	294.6	395.5	450.1	458.2	346.4
10.9	82.5°	13.6	54.6	130.9	188.2	180.0	278.2	338.2	327.3	220.9
8.2	85°	8.2	38.2	81.8	117.3	109.1	182.8	196.4	201.8	128.2
5.5	87.5°	5.5	21.8	43.6	62.7	51.8	79.1	79.1	95.5	62.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
14740.1
14374.6
14434.6
14260.0
14020.0
13725.4
13379.0
12964.4
12410.7
11873.3
11199.6
10599.5
9890.4
9208.4
8455.6
7866.5
7132.7
6486.3
5845.3
5226.1
4637.0
4075.1
3510.4
3016.7
2572.1
2149.4
1805.7
1527.5
1265.6
998.3
706.5
499.2
324.6
204.6
117.3
54.6
0.0

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