

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: P636588

Luminaire Tested: **IFLD-L-SA8A-927-U-66-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636588  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-927-U-66-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor  
Light Source: (128) 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17267.9 lumens  
Efficiency: N/A  
Efficacy: 69.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G1

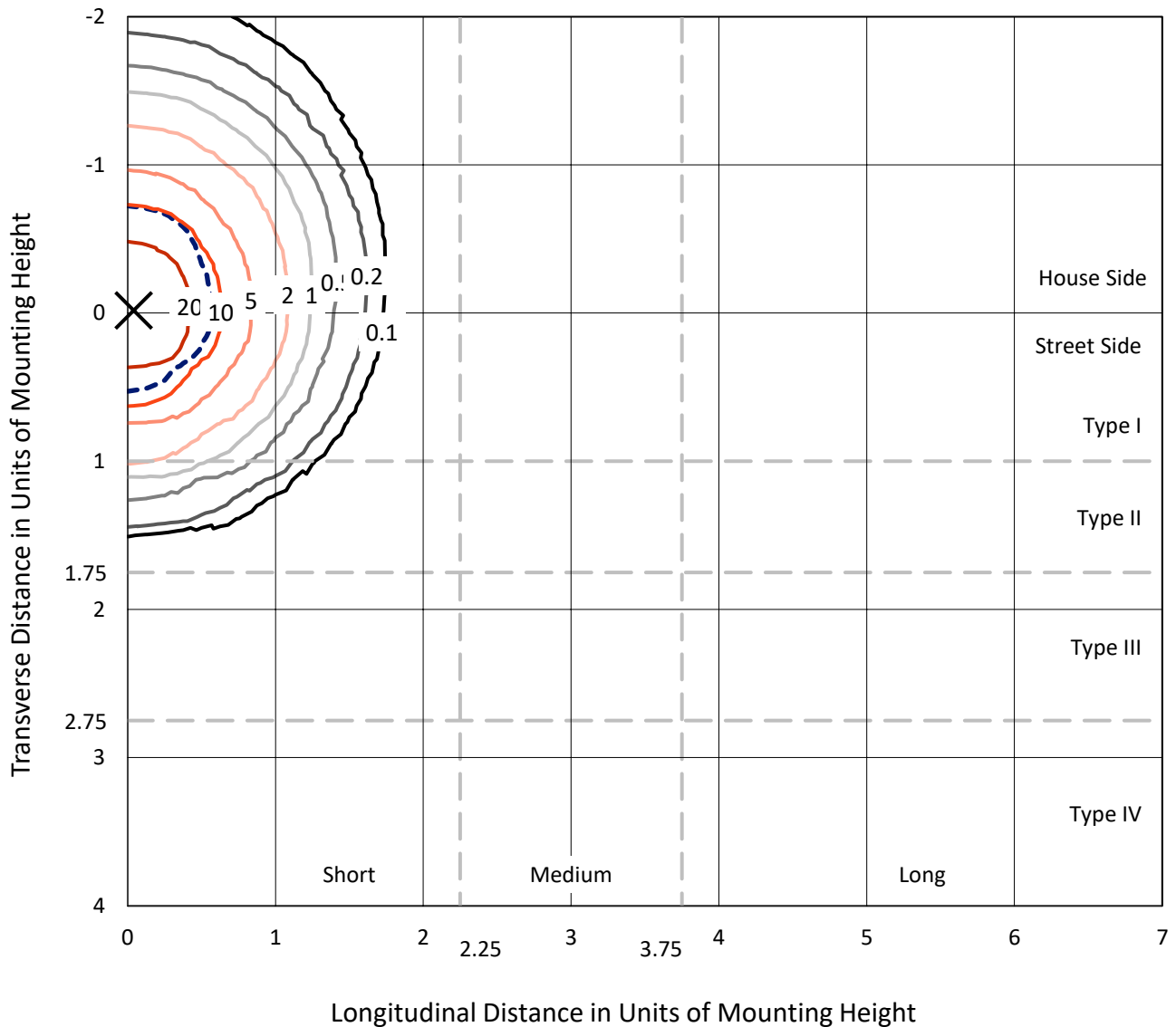
Input Watts (W): 247.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

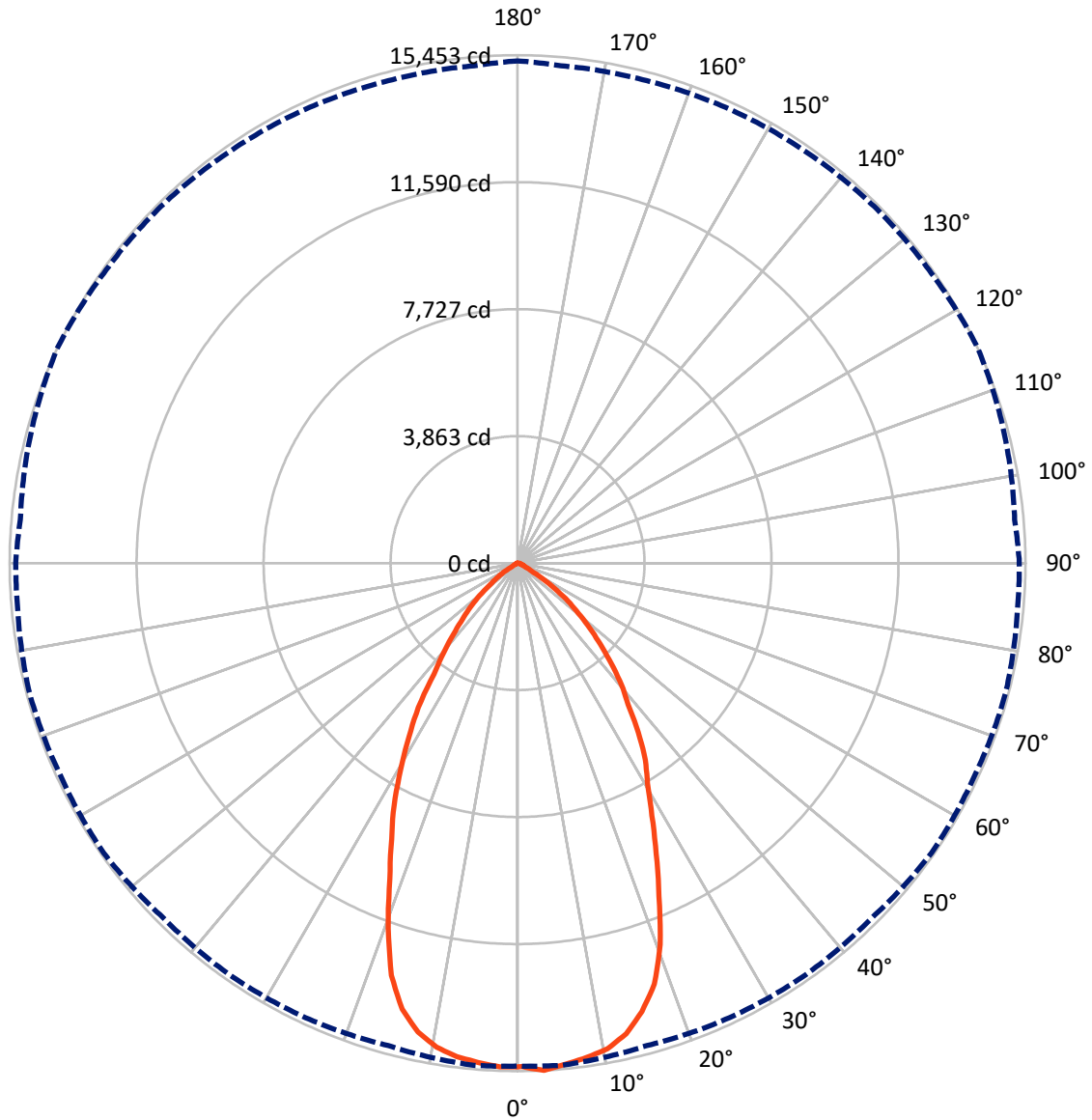
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 38.3 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 115-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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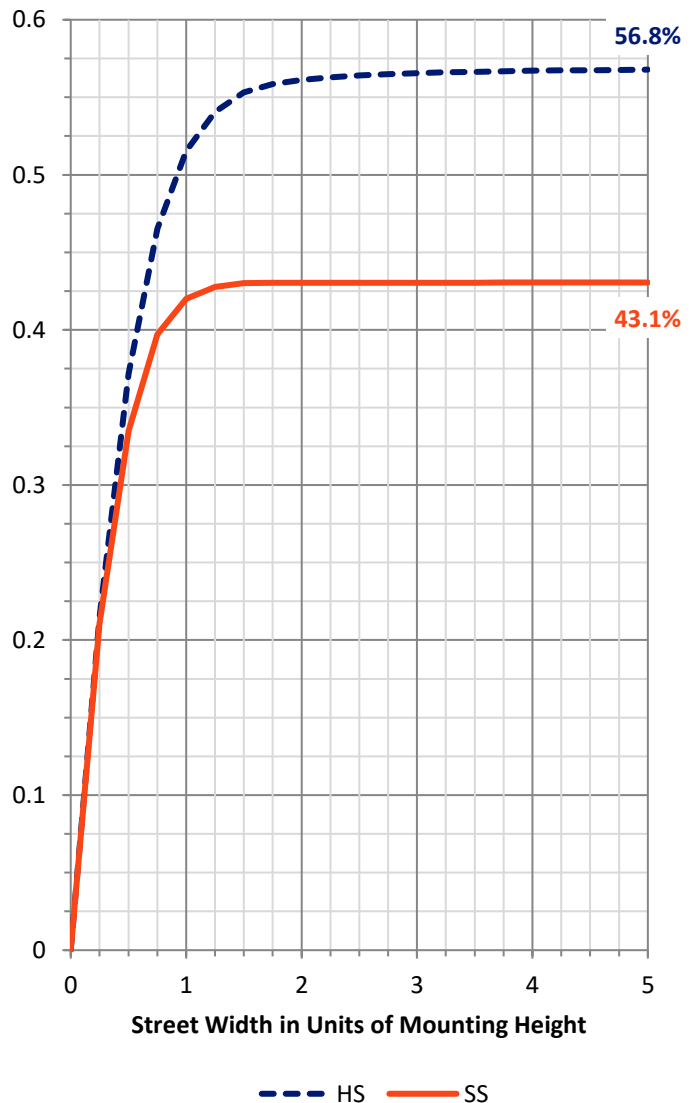
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9882.2	0.0	9882.2
	% Fixture	57.2	0.0	57.2
<b>Street Side</b>	Lumens	7385.7	0.0	7385.7
	% Fixture	42.8	0.0	42.8
<b>Total</b>	Lumens	17267.9	0.0	17267.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1443.0	8.4
10°-20°	3826.2	22.2
20°-30°	4376.4	25.3
30°-40°	3750.4	21.7
40°-50°	2479.9	14.4
50°-60°	1082.1	6.3
60°-70°	212.6	1.2
70°-80°	76.7	0.4
80°-90°	20.4	0.1
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°	17267.9	100.0
0°-180°	17267.9	100.0



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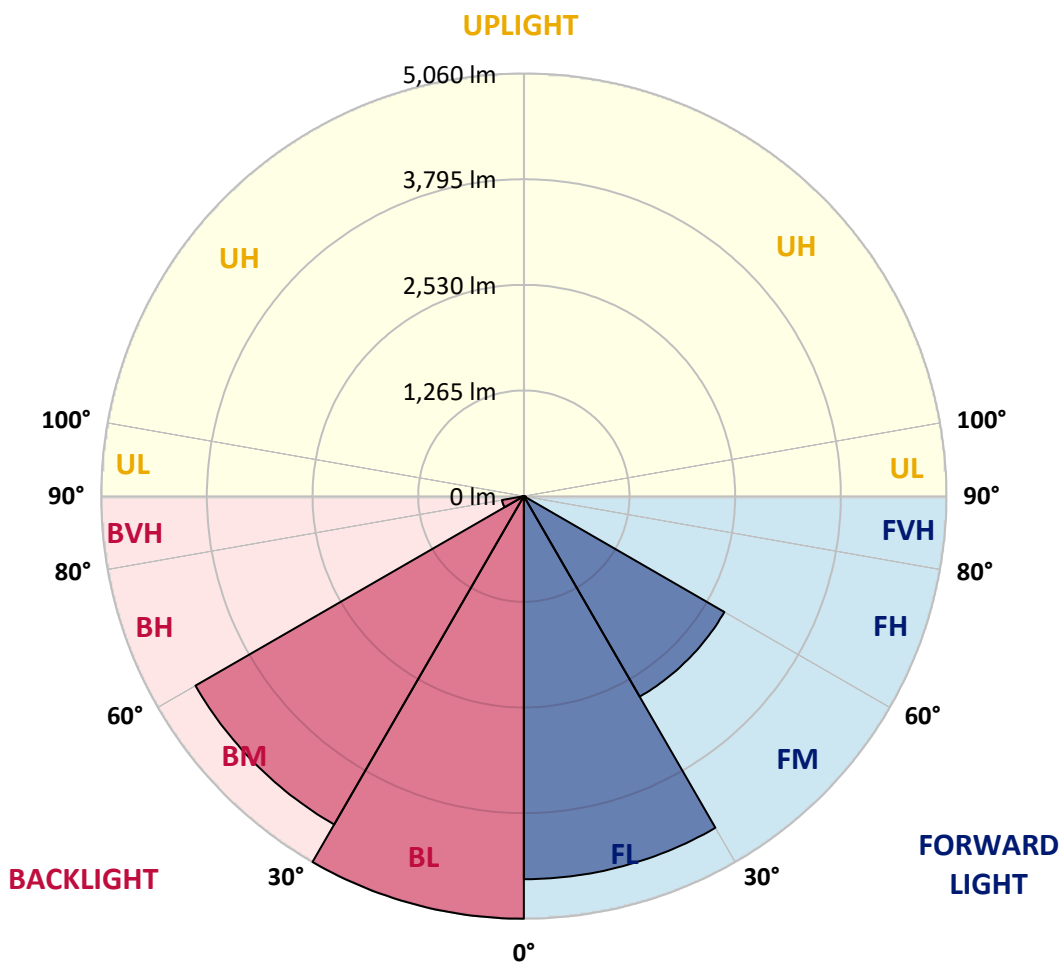
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4586.0	26.6			
FM (30°-60°)	2772.9	16.1			
FH (60°-80°)	23.5	0.1			G0/660
FVH (80°-90°)	3.4	0.0			G0/10
BL (0°-30°)	5059.7	29.3	B5		
BM (30°-60°)	4539.7	26.3	B3/5000		
BH (60°-80°)	265.8	1.5	B1/500		G1/500
BVH (80°-90°)	17.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	15321.0	15321.0	15321.0	15321.0	15321.0	15321.0	15321.0	15321.0	15321.0	15321.0
2.5°	15299.0	15335.7	15196.2	15258.6	15284.3	15251.2	15372.4	15335.7	15365.0	15273.3
5°	15299.0	15335.7	15174.2	15203.5	15210.9	15148.5	15280.6	15236.6	15240.2	15144.8
7.5°	15203.5	15247.6	15100.7	15122.8	15126.4	15075.1	15188.8	15126.4	15104.4	15005.3
10°	14946.6	14972.3	14840.1	14895.2	14946.6	14898.9	14998.0	14928.2	14928.2	14840.1
12.5°	14539.2	14586.9	14440.0	14506.1	14550.2	14495.1	14608.9	14583.2	14586.9	14498.8
15°	13797.7	13632.5	13808.7	13940.8	13944.5	13933.5	14040.0	14014.3	14032.6	13900.5
17.5°	10193.2	10152.8	10358.4	11918.4	13078.3	13236.1	13254.5	13115.0	13052.6	12924.1
20°	9444.4	9473.8	9429.7	9437.1	10351.0	12248.7	12134.9	11789.9	11632.1	11503.6
22.5°	8897.5	8849.8	8820.4	8802.0	8827.7	10064.7	10883.3	10362.0	10277.6	10215.2
25°	8302.8	8280.8	8244.1	8236.8	8222.1	8012.9	9191.1	9238.8	9103.0	9025.9
27.5°	7748.6	7733.9	7693.5	7689.9	7521.0	7014.5	7142.9	8277.1	8240.4	8211.1
30°	7157.6	7128.3	7106.2	7106.2	6596.0	6074.8	5865.6	7216.4	7216.4	7190.7
32.5°	6515.3	6489.6	6496.9	6408.8	5799.5	5322.3	4992.0	6229.0	6614.4	6592.4
35°	3982.6	3975.2	4720.4	5700.4	4984.6	4551.5	4529.5	5329.7	5891.3	5950.0
37.5°	3545.8	3523.8	3534.8	3597.2	4268.9	4096.4	4089.0	4224.8	5014.0	5043.4
40°	3182.4	3167.7	3156.7	2932.8	2719.9	3655.9	3630.2	3542.1	4283.6	4335.0
42.5°	2837.4	2822.7	2822.7	2507.0	2162.0	3006.2	3017.2	2914.4	3611.8	3630.2
45°	2481.3	2470.3	2407.9	2000.5	1901.4	1996.8	2499.7	2382.2	2866.7	3057.6
47.5°	1170.9	1163.6	1684.8	1662.8	1655.4	1596.7	1908.7	1974.8	2275.8	2466.6
50°	939.7	932.3	888.3	781.8	1361.8	1211.3	1376.5	1519.6	1615.1	1791.2
52.5°	778.2	770.8	679.1	602.0	756.1	884.6	822.2	1016.7	1013.1	1203.9
55°	510.2	473.5	521.2	491.9	396.4	642.4	627.7	770.8	752.5	917.6
57.5°	11.0	11.0	25.7	279.0	249.6	271.6	359.7	440.5	495.5	543.2
60°	3.7	3.7	7.3	14.7	102.8	113.8	139.5	161.5	227.6	282.6
62.5°	0.0	0.0	3.7	7.3	14.7	58.7	66.1	77.1	106.4	146.8
65°	0.0	0.0	0.0	3.7	7.3	14.7	22.0	47.7	66.1	84.4
67.5°	0.0	0.0	0.0	3.7	3.7	7.3	14.7	22.0	29.4	58.7
70°	0.0	0.0	0.0	3.7	3.7	7.3	11.0	14.7	22.0	29.4
72.5°	0.0	0.0	0.0	3.7	3.7	11.0	7.3	11.0	14.7	18.4
75°	0.0	0.0	0.0	3.7	3.7	3.7	7.3	11.0	11.0	14.7
77.5°	0.0	0.0	0.0	3.7	7.3	7.3	7.3	7.3	7.3	11.0
80°	0.0	0.0	0.0	3.7	3.7	7.3	11.0	14.7	7.3	7.3
82.5°	0.0	0.0	0.0	7.3	3.7	14.7	22.0	18.4	7.3	3.7
85°	0.0	0.0	0.0	3.7	14.7	18.4	18.4	11.0	3.7	3.7
87.5°	0.0	0.0	0.0	3.7	3.7	7.3	11.0	11.0	3.7	3.7
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°
15321.0	0°	15321.0	15321.0	15321.0	15321.0	15321.0	15321.0	15321.0	15321.0	15321.0
15265.9	2.5°	15181.5	15324.7	15453.1	15372.4	15343.0	15284.3	15240.2	15192.5	15188.8
15133.8	5°	15049.4	15185.2	15310.0	15214.5	15221.9	15192.5	15163.1	15152.1	15159.5
14998.0	7.5°	14935.6	15049.4	15185.2	15104.4	15126.4	15108.1	15093.4	15071.4	15104.4
14821.8	10°	14763.1	14865.8	15023.7	14946.6	14935.6	14917.2	14902.5	14862.2	14880.5
14502.4	12.5°	14385.0	14513.5	14693.3	14605.2	14634.6	14583.2	14561.2	14535.5	14539.2
13948.2	15°	13871.1	13970.2	14153.7	14084.0	14106.0	14073.0	14073.0	14073.0	14098.7
12942.5	17.5°	12975.5	13177.4	13467.3	13379.2	13412.3	13419.6	13412.3	13438.0	13471.0
11510.9	20°	11518.3	11863.3	12391.9	12564.4	12634.1	12637.8	12586.4	12648.8	12714.9
10171.2	22.5°	10178.5	10541.9	11008.1	11481.6	11775.2	11760.5	11767.9	11808.2	11878.0
8978.2	25°	9018.6	9367.3	9789.4	10211.5	10853.9	10986.0	10989.7	11026.4	11081.5
8163.4	27.5°	8181.7	8317.5	8702.9	9128.7	9818.8	10240.9	10218.9	10251.9	10310.6
7142.9	30°	7172.3	7693.5	7781.6	8042.2	8636.9	9411.4	9415.0	9451.7	9510.5
6541.0	32.5°	6522.6	6867.6	7139.3	7146.6	7653.2	8449.7	8607.5	8644.2	8684.6
5917.0	35°	5913.3	5953.7	6320.7	6423.5	6717.2	7506.3	7785.3	7807.3	7873.4
5032.4	37.5°	5116.8	5355.4	5458.1	5825.2	5839.9	6478.6	7032.8	7010.8	7062.2
4331.3	40°	4386.3	4613.9	4874.5	5142.5	5179.2	5656.4	6269.3	6291.4	6313.4
3593.5	42.5°	3622.9	3912.8	4180.8	4360.6	4610.2	4885.5	5469.2	5571.9	5623.3
3079.6	45°	3134.7	3215.4	3534.8	3799.0	4052.3	4180.8	4727.7	4914.9	4947.9
2437.3	47.5°	2470.3	2741.9	2958.5	3182.4	3498.1	3611.8	4008.3	4268.9	4294.6
1809.6	50°	1908.7	2103.2	2400.6	2602.4	2969.5	3031.9	3303.5	3641.2	3674.2
1211.3	52.5°	1365.5	1629.7	1919.7	2114.3	2466.6	2547.4	2749.3	3072.3	3094.3
928.7	55°	980.0	1152.6	1391.1	1670.1	1927.1	2106.9	2246.4	2554.7	2584.1
609.3	57.5°	668.0	829.6	928.7	1207.6	1361.8	1556.3	1670.1	1905.0	1927.1
290.0	60°	319.3	396.4	473.5	613.0	712.1	877.3	950.7	1046.1	1071.8
176.2	62.5°	205.6	242.3	308.3	367.1	462.5	565.3	594.6	675.4	704.8
110.1	65°	135.8	172.5	242.3	256.9	352.4	433.1	469.8	528.6	561.6
66.1	67.5°	77.1	121.1	179.9	212.9	279.0	356.0	396.4	447.8	477.2
44.0	70°	51.4	99.1	143.2	176.2	220.2	286.3	337.7	381.7	400.1
22.0	72.5°	29.4	62.4	99.1	139.5	176.2	238.6	286.3	323.0	212.9
14.7	75°	18.4	47.7	84.4	117.5	146.8	190.9	231.2	227.6	95.4
11.0	77.5°	14.7	36.7	73.4	99.1	121.1	132.1	165.2	187.2	73.4
7.3	80°	11.0	29.4	66.1	84.4	47.7	95.4	128.5	139.5	51.4
7.3	82.5°	7.3	18.4	55.1	58.7	33.0	69.7	102.8	91.8	36.7
3.7	85°	3.7	11.0	18.4	33.0	29.4	33.0	25.7	36.7	25.7
3.7	87.5°	3.7	7.3	14.7	14.7	14.7	11.0	14.7	14.7	14.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
15321.0
15276.9
15251.2
15196.2
14968.6
14645.6
14109.7
13581.1
12758.9
11889.0
11176.9
10365.7
9613.2
8776.3
7943.1
7124.6
6383.1
5696.7
5028.7
4357.0
3722.0
3134.7
2609.8
1971.1
1101.2
712.1
561.6
473.5
396.4
172.5
95.4
73.4
55.1
36.7
25.7
14.7
0.0

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