

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: P636663

Luminaire Tested: **IFLD-S-SA6D-940-U-66-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636663  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6D-940-U-66-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor  
Light Source: (96) 4000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26305.7 lumens  
Efficiency: N/A  
Efficacy: 71.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G1

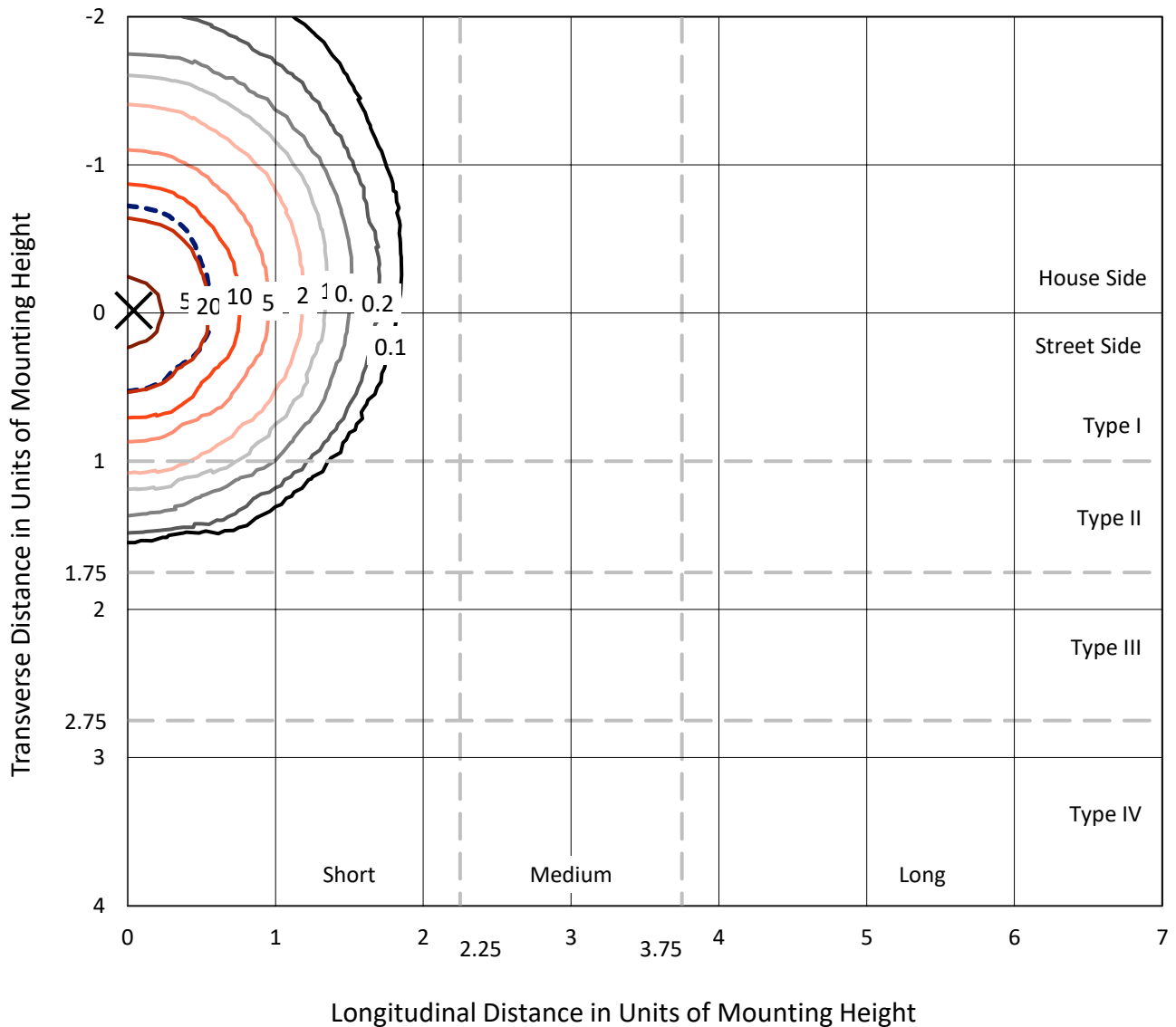
Input Watts (W): 368.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

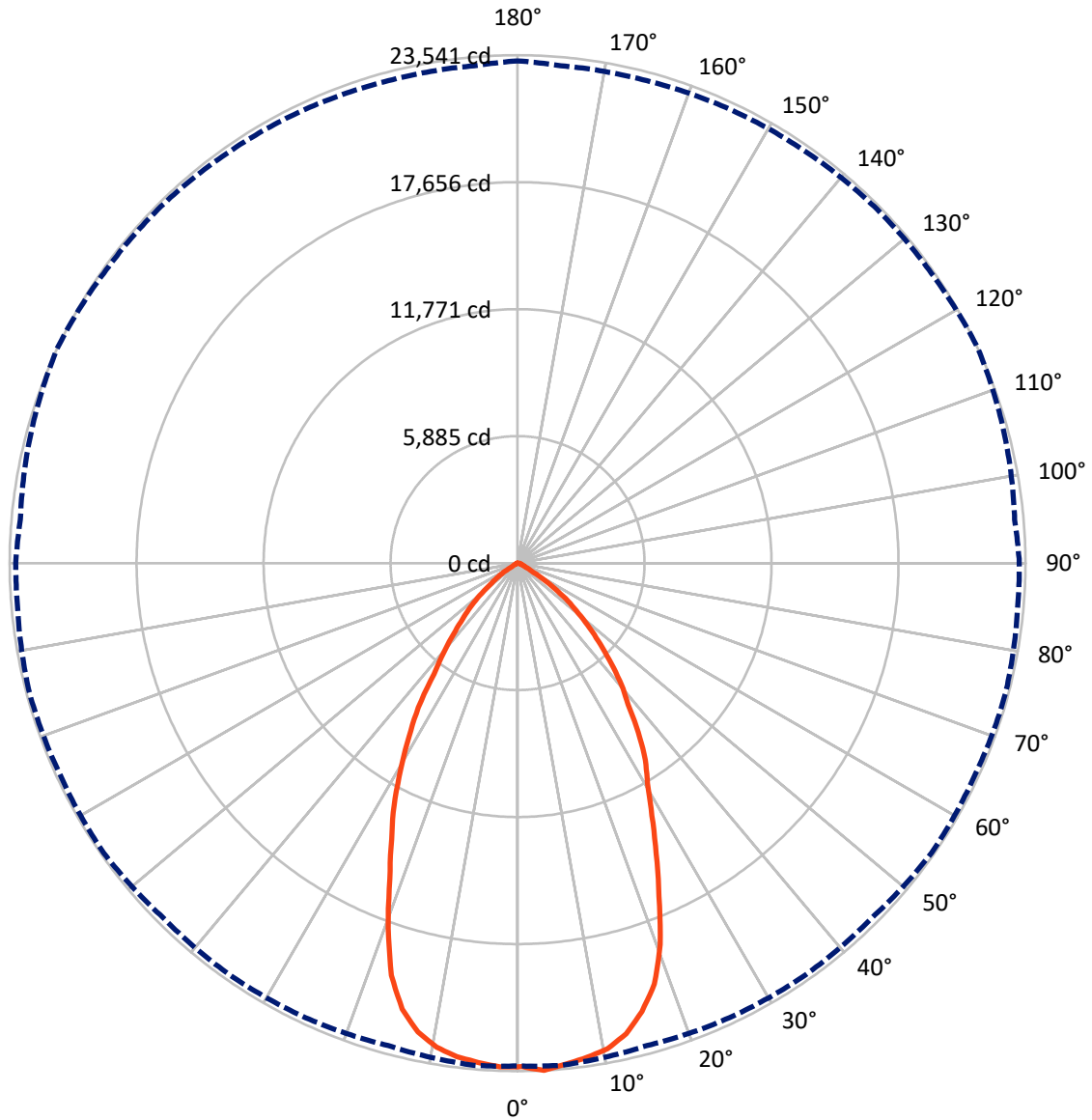
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 58.3 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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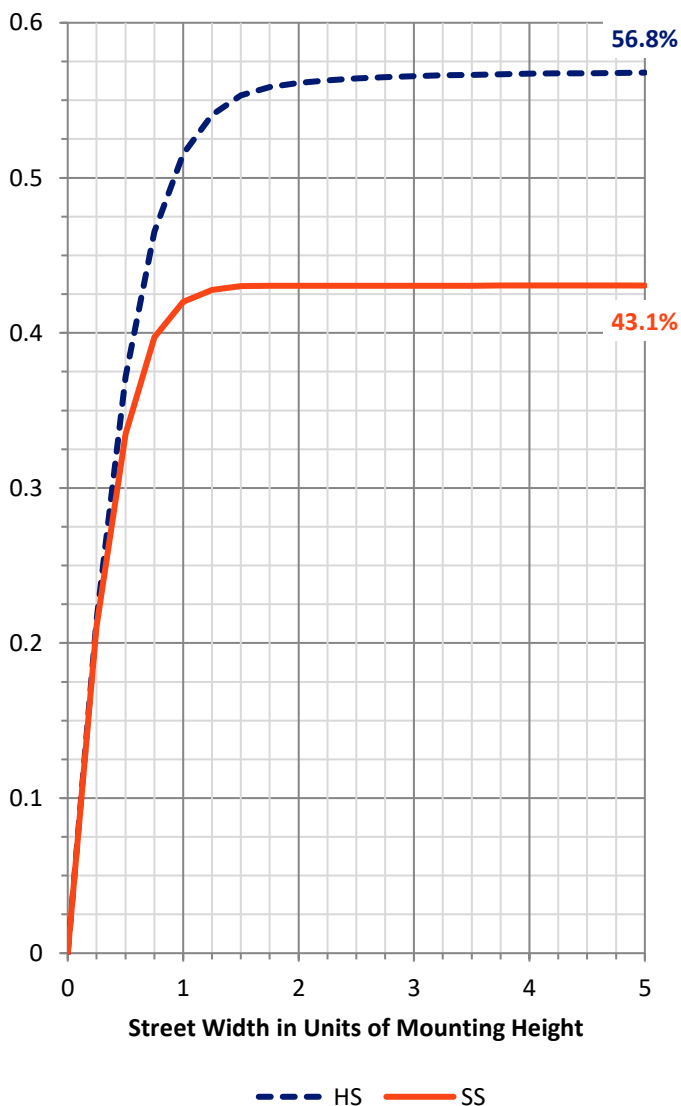
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15054.4	0.0	15054.4
	% Fixture	57.2	0.0	57.2
<b>Street Side</b>	Lumens	11251.3	0.0	11251.3
	% Fixture	42.8	0.0	42.8
<b>Total</b>	Lumens	26305.7	0.0	26305.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2198.3	8.4
10°-20°	5828.8	22.2
20°-30°	6666.9	25.3
30°-40°	5713.4	21.7
40°-50°	3777.9	14.4
50°-60°	1648.5	6.3
60°-70°	323.9	1.2
70°-80°	116.9	0.4
80°-90°	31.1	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°	26305.7	100.0
0°-180°	26305.7	100.0



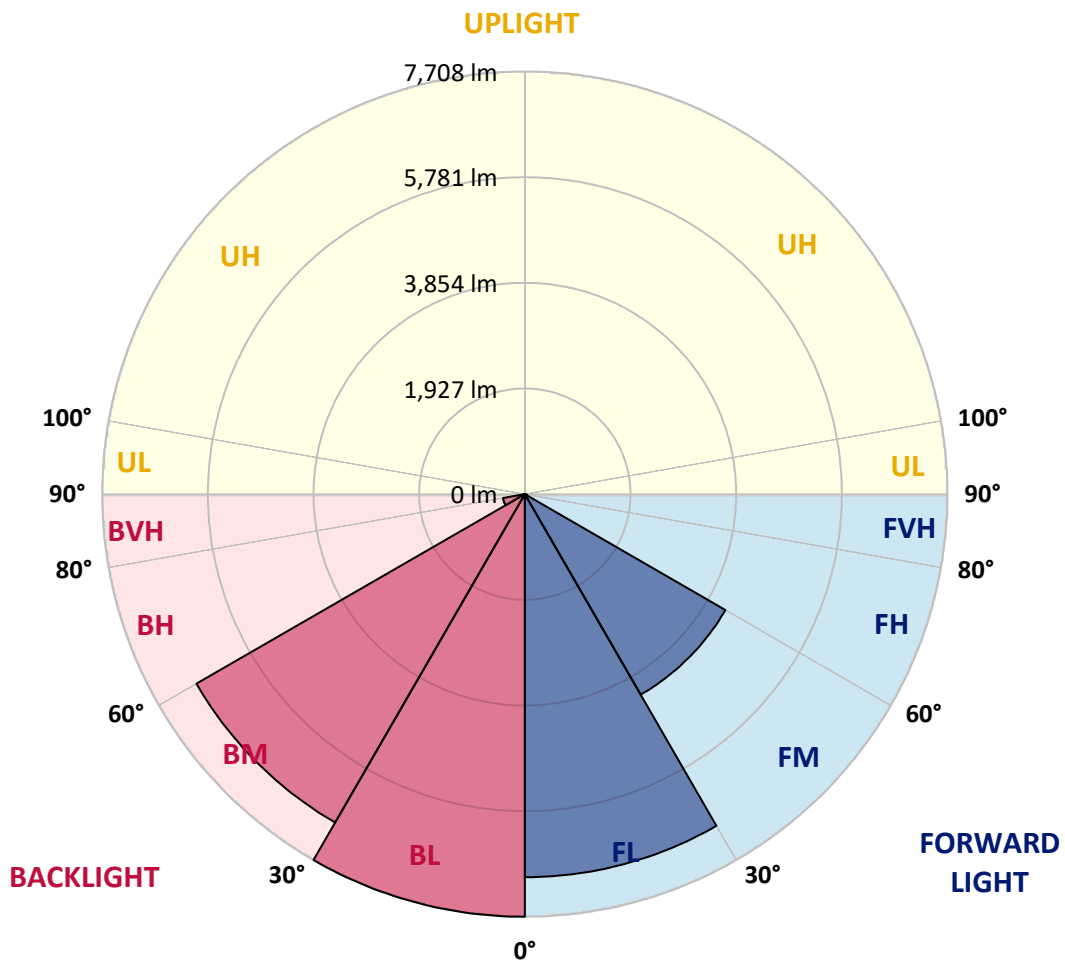
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6986.2	26.6			
FM (30°-60°)	4224.1	16.1			
FH (60°-80°)	35.8	0.1			G0/660
FVH (80°-90°)	5.1	0.0			G0/10
BL (0°-30°)	7707.8	29.3	B5		
BM (30°-60°)	6915.7	26.3	B4/8500		
BH (60°-80°)	405.0	1.5	B1/500		G1/500
BVH (80°-90°)	25.9	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°	23339.8	23339.8	23339.8	23339.8	23339.8	23339.8	23339.8	23339.8	23339.8	23339.8
2.5°	23306.2	23362.1	23149.6	23244.7	23283.8	23233.5	23418.0	23362.1	23406.9	23267.1
5°	23306.2	23362.1	23116.1	23160.8	23172.0	23076.9	23278.2	23211.1	23216.7	23071.4
7.5°	23160.8	23227.9	23004.3	23037.8	23043.4	22965.1	23138.5	23043.4	23009.8	22858.9
10°	22769.4	22808.5	22607.2	22691.1	22769.4	22696.7	22847.7	22741.4	22741.4	22607.2
12.5°	22148.7	22221.4	21997.7	22098.4	22165.5	22081.6	22255.0	22215.8	22221.4	22087.2
15°	21019.2	20767.6	21036.0	21237.3	21242.9	21226.1	21388.3	21349.1	21377.1	21175.8
17.5°	15528.2	15466.6	15779.8	18156.3	19923.2	20163.7	20191.6	19979.1	19884.1	19688.4
20°	14387.4	14432.2	14365.1	14376.3	15768.6	18659.5	18486.2	17960.5	17720.1	17524.4
22.5°	13554.3	13481.6	13436.9	13408.9	13448.0	15332.4	16579.4	15785.4	15656.8	15561.7
25°	12648.4	12614.9	12559.0	12547.8	12525.4	12206.7	14001.6	14074.3	13867.4	13750.0
27.5°	11804.1	11781.7	11720.2	11714.6	11457.4	10685.7	10881.4	12609.3	12553.4	12508.6
30°	10903.8	10859.1	10825.5	10825.5	10048.3	9254.3	8935.5	10993.3	10993.3	10954.1
32.5°	9925.3	9886.1	9897.3	9763.1	8834.9	8108.0	7604.7	9489.1	10076.2	10042.7
35°	6067.0	6055.8	7190.9	8683.9	7593.5	6933.7	6900.2	8119.1	8974.7	9064.1
37.5°	5401.6	5368.0	5384.8	5479.9	6503.1	6240.3	6229.2	6436.0	7638.3	7683.0
40°	4848.0	4825.6	4808.9	4467.8	4143.4	5569.3	5530.2	5396.0	6525.5	6603.8
42.5°	4322.4	4300.0	4300.0	3819.1	3293.5	4579.6	4596.4	4439.8	5502.2	5530.2
45°	3780.0	3763.2	3668.2	3047.5	2896.5	3041.9	3807.9	3629.0	4367.1	4657.9
47.5°	1783.8	1772.6	2566.6	2533.0	2521.9	2432.4	2907.7	3008.3	3466.9	3757.6
50°	1431.5	1420.3	1353.2	1191.0	2074.5	1845.3	2096.9	2315.0	2460.3	2728.7
52.5°	1185.4	1174.3	1034.5	917.0	1151.9	1347.6	1252.5	1548.9	1543.3	1834.1
55°	777.2	721.3	794.0	749.3	603.9	978.5	956.2	1174.3	1146.3	1397.9
57.5°	16.8	16.8	39.1	425.0	380.2	413.8	548.0	671.0	754.9	827.6
60°	5.6	5.6	11.2	22.4	156.6	173.3	212.5	246.0	346.7	430.6
62.5°	0.0	0.0	5.6	11.2	22.4	89.5	100.7	117.4	162.2	223.7
65°	0.0	0.0	0.0	5.6	11.2	22.4	33.6	72.7	100.7	128.6
67.5°	0.0	0.0	0.0	5.6	5.6	11.2	22.4	33.6	44.7	89.5
70°	0.0	0.0	0.0	5.6	5.6	11.2	16.8	22.4	33.6	44.7
72.5°	0.0	0.0	0.0	5.6	5.6	16.8	11.2	16.8	22.4	28.0
75°	0.0	0.0	0.0	5.6	5.6	5.6	11.2	16.8	16.8	22.4
77.5°	0.0	0.0	0.0	5.6	11.2	11.2	11.2	11.2	11.2	16.8
80°	0.0	0.0	0.0	5.6	5.6	11.2	16.8	22.4	11.2	11.2
82.5°	0.0	0.0	0.0	11.2	5.6	22.4	33.6	28.0	11.2	5.6
85°	0.0	0.0	0.0	5.6	22.4	28.0	28.0	16.8	5.6	5.6
87.5°	0.0	0.0	0.0	5.6	5.6	11.2	16.8	16.8	5.6	5.6
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°
23339.8	0°	23339.8	23339.8	23339.8	23339.8	23339.8	23339.8	23339.8	23339.8	23339.8
23255.9	2.5°	23127.3	23345.3	23541.1	23418.0	23373.3	23283.8	23216.7	23144.0	23138.5
23054.6	5°	22926.0	23132.9	23323.0	23177.6	23188.8	23144.0	23099.3	23082.5	23093.7
22847.7	7.5°	22752.6	22926.0	23132.9	23009.8	23043.4	23015.4	22993.1	22959.5	23009.8
22579.3	10°	22489.8	22646.4	22886.8	22769.4	22752.6	22724.7	22702.3	22640.8	22668.8
22092.8	12.5°	21913.9	22109.6	22383.6	22249.4	22294.1	22215.8	22182.3	22143.1	22148.7
21248.5	15°	21131.0	21282.0	21561.6	21455.4	21488.9	21438.6	21438.6	21438.6	21477.7
19716.3	17.5°	19766.7	20074.2	20515.9	20381.7	20432.1	20443.3	20432.1	20471.2	20521.5
17535.6	20°	17546.8	18072.4	18877.6	19140.4	19246.6	19252.2	19173.9	19269.0	19369.6
15494.6	22.5°	15505.8	16059.4	16769.5	17490.8	17938.2	17915.8	17927.0	17988.5	18094.7
13677.3	25°	13738.8	14270.0	14913.1	15556.1	16534.7	16736.0	16741.6	16797.5	16881.3
12435.9	27.5°	12463.9	12670.8	13257.9	13906.6	14957.8	15600.8	15567.3	15617.6	15707.1
10881.4	30°	10926.2	11720.2	11854.4	12251.4	13157.3	14337.1	14342.7	14398.6	14488.1
9964.4	32.5°	9936.5	10462.1	10875.9	10887.0	11658.7	12872.1	13112.5	13168.5	13230.0
9013.8	35°	9008.2	9069.7	9628.9	9785.5	10232.8	11435.0	11860.0	11893.5	11994.2
7666.2	37.5°	7794.8	8158.3	8314.9	8874.0	8896.4	9869.4	10713.7	10680.1	10758.4
6598.2	40°	6682.1	7028.8	7425.8	7834.0	7889.9	8616.8	9550.6	9584.2	9617.7
5474.3	42.5°	5519.0	5960.8	6368.9	6642.9	7023.2	7442.6	8331.6	8488.2	8566.5
4691.4	45°	4775.3	4898.3	5384.8	5787.4	6173.2	6368.9	7202.1	7487.3	7537.6
3712.9	47.5°	3763.2	4177.0	4506.9	4848.0	5328.9	5502.2	6106.1	6503.1	6542.3
2756.7	50°	2907.7	3204.0	3657.0	3964.5	4523.7	4618.7	5032.5	5547.0	5597.3
1845.3	52.5°	2080.1	2482.7	2924.5	3220.8	3757.6	3880.6	4188.2	4680.3	4713.8
1414.7	55°	1493.0	1755.8	2119.3	2544.2	2935.6	3209.6	3422.1	3891.8	3936.6
928.2	57.5°	1017.7	1263.7	1414.7	1839.7	2074.5	2370.9	2544.2	2902.1	2935.6
441.7	60°	486.5	603.9	721.3	933.8	1084.8	1336.4	1448.3	1593.6	1632.8
268.4	62.5°	313.1	369.1	469.7	559.2	704.6	861.1	905.9	1028.9	1073.6
167.8	65°	206.9	262.8	369.1	391.4	536.8	659.8	715.7	805.2	855.5
100.7	67.5°	117.4	184.5	274.0	324.3	425.0	542.4	603.9	682.2	726.9
67.1	70°	78.3	151.0	218.1	268.4	335.5	436.2	514.4	581.5	609.5
33.6	72.5°	44.7	95.1	151.0	212.5	268.4	363.5	436.2	492.1	324.3
22.4	75°	28.0	72.7	128.6	178.9	223.7	290.8	352.3	346.7	145.4
16.8	77.5°	22.4	55.9	111.8	151.0	184.5	201.3	251.6	285.2	111.8
11.2	80°	16.8	44.7	100.7	128.6	72.7	145.4	195.7	212.5	78.3
11.2	82.5°	11.2	28.0	83.9	89.5	50.3	106.2	156.6	139.8	55.9
5.6	85°	5.6	16.8	28.0	50.3	44.7	50.3	39.1	55.9	39.1
5.6	87.5°	5.6	11.2	22.4	22.4	22.4	16.8	22.4	22.4	22.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
23339.8
23272.7
23233.5
23149.6
22803.0
22310.9
21494.5
20689.3
19436.8
18111.5
17026.7
15791.0
14644.7
13369.8
12100.4
10853.5
9724.0
8678.3
7660.6
6637.3
5670.0
4775.3
3975.7
3002.7
1677.5
1084.8
855.5
721.3
603.9
262.8
145.4
111.8
83.9
55.9
39.1
22.4
0.0

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