

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: P636764

Luminaire Tested: **IFLD-L-SA8C-930-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636764  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-930-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (128) 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24940.7 lumens  
Efficiency: N/A  
Efficacy: 59.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

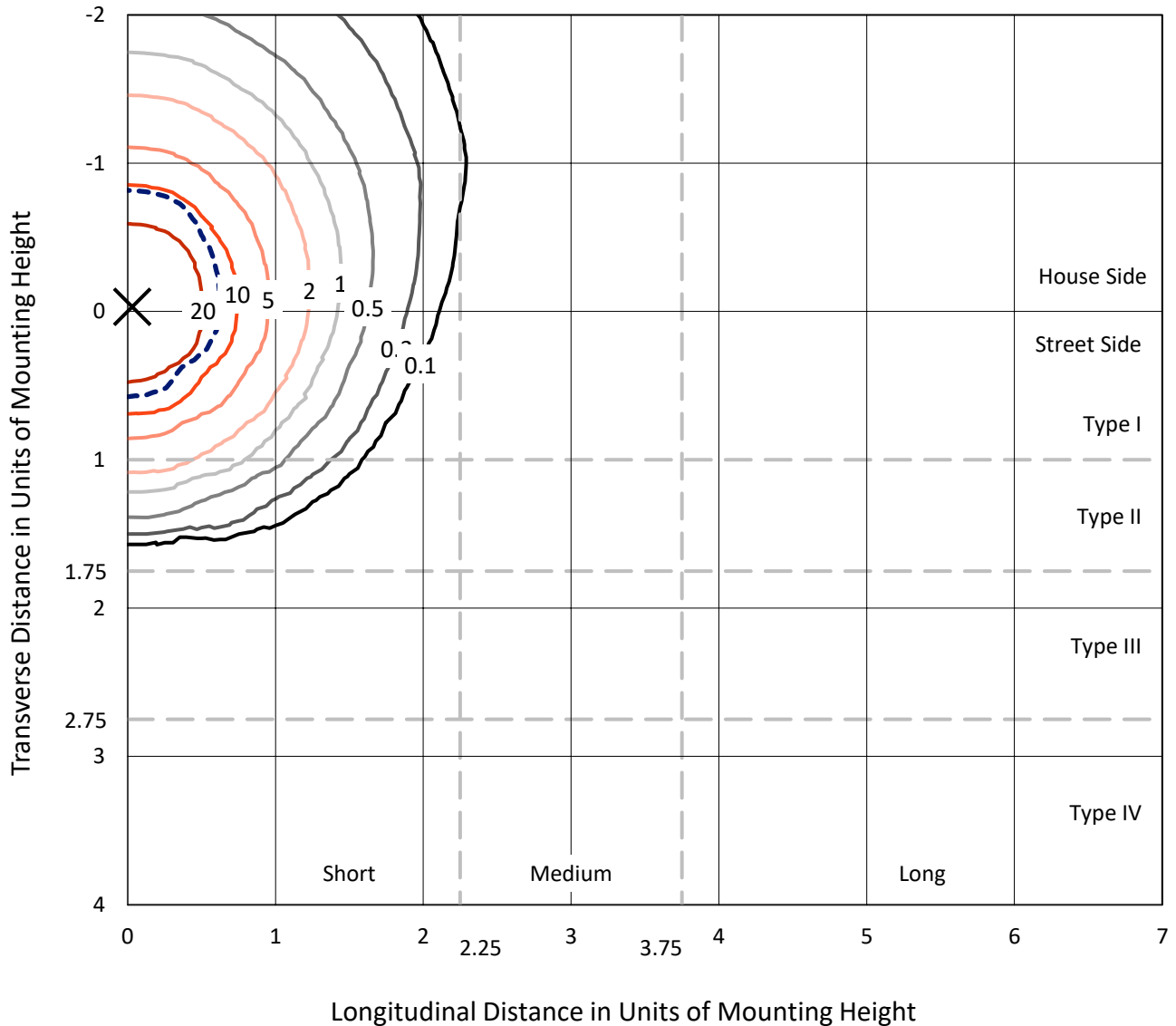
Input Watts (W): 420.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

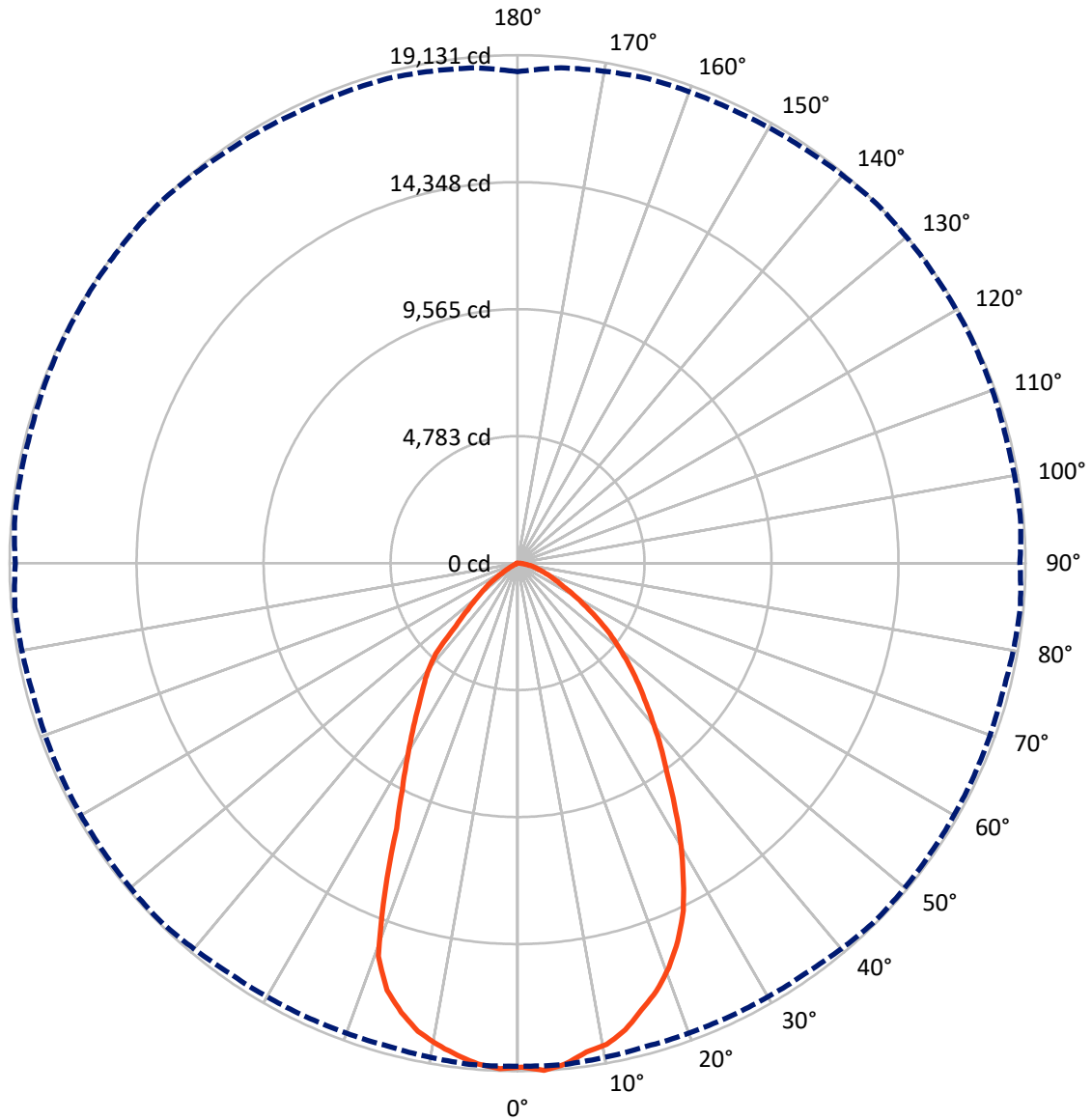
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 47.4 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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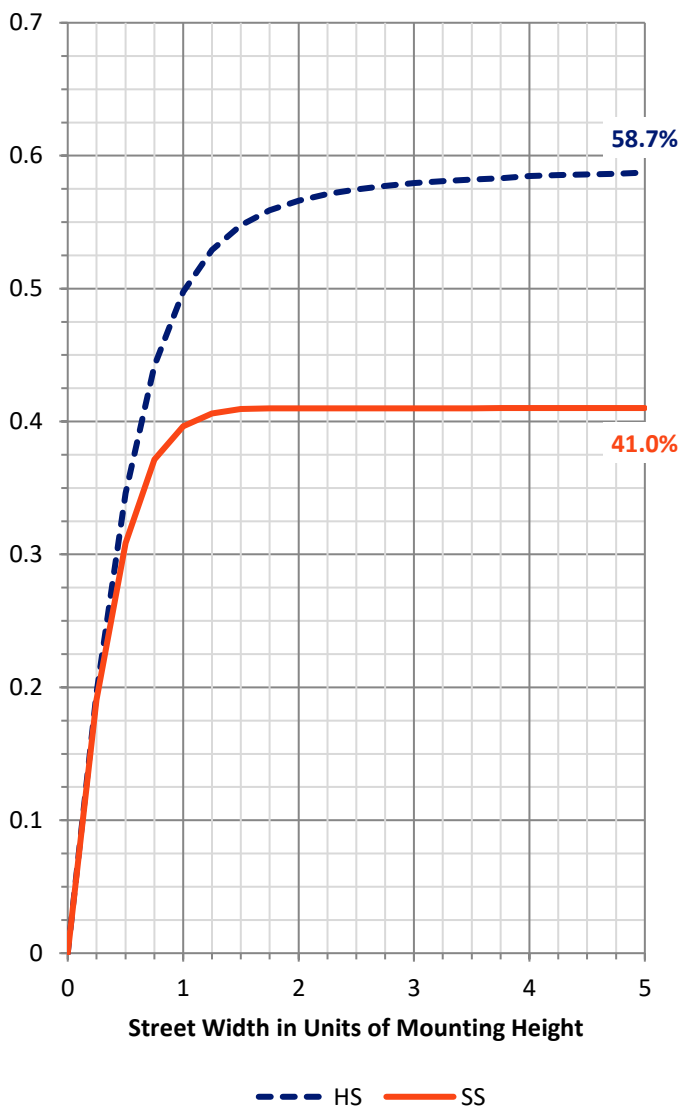
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14771.2	0.0	14771.2
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	10169.6	0.0	10169.6
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	24940.7	0.0	24940.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1780.0	7.1
10°-20°	4773.2	19.1
20°-30°	5821.2	23.3
30°-40°	5314.7	21.3
40°-50°	3840.8	15.4
50°-60°	2097.1	8.4
60°-70°	867.1	3.5
70°-80°	351.2	1.4
80°-90°	95.5	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°	24940.7	100.0
0°-180°	24940.7	100.0



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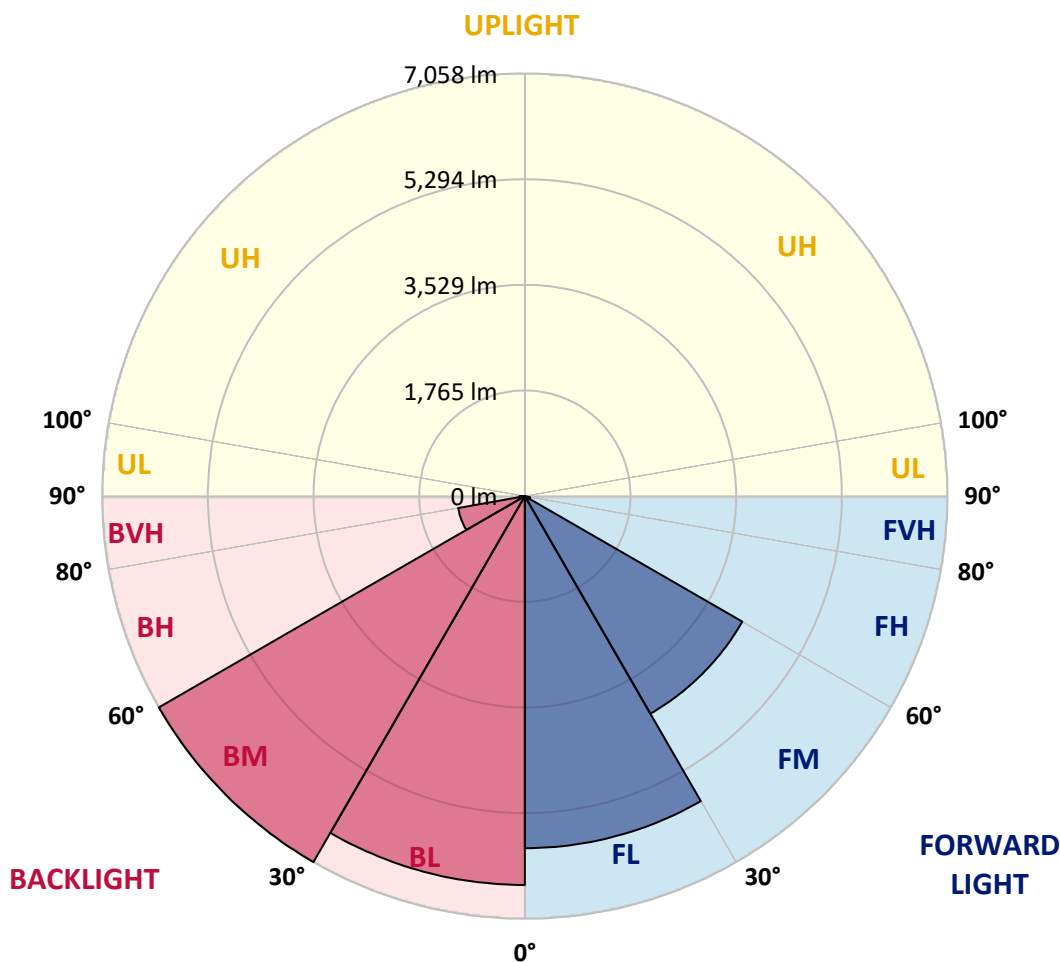
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5879.5	23.6			
FM (30°-60°)	4194.6	16.8			
FH (60°-80°)	87.9	0.4			G0/660
FVH (80°-90°)	7.6	0.0			G0/10
BL (0°-30°)	6494.9	26.0	B5		
BM (30°-60°)	7058.0	28.3	B4/8500		
BH (60°-80°)	1130.4	4.5	B3/2500		G3/2500
BVH (80°-90°)	87.9	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°	18979.8	18979.8	18979.8	18979.8	18979.8	18979.8	18979.8	18979.8	18979.8	18979.8
2.5°	18944.7	18969.3	18835.8	18849.9	18874.5	19053.6	19007.9	18965.8	18906.1	19007.9
5°	18920.1	18934.2	18793.7	18744.5	18765.6	18927.2	18779.6	18779.6	18765.6	18748.0
7.5°	18730.5	18737.5	18628.6	18540.8	18597.0	18670.8	18561.9	18614.6	18537.3	18597.0
10°	18446.0	18400.3	18270.4	18245.8	18309.0	18379.3	18305.5	18354.7	18284.4	18330.1
12.5°	18028.0	17957.8	17852.4	17820.8	17929.7	18024.5	17964.8	17936.7	17845.4	17957.8
15°	16415.9	16363.3	16602.1	17020.0	17395.8	17476.6	17413.4	17441.5	17251.8	17283.5
17.5°	13511.4	13413.0	13669.4	14659.9	16071.8	16816.3	16760.1	16577.5	16296.5	16359.8
20°	12278.6	12250.5	12222.4	12457.7	13444.6	15703.0	15780.2	15316.6	14916.2	14828.4
22.5°	11583.2	11572.6	11544.5	11597.2	11857.1	13307.7	14192.7	13764.2	13497.3	13472.7
25°	10947.5	10929.9	10845.6	10912.4	10912.4	10996.6	12131.1	12391.0	12155.7	12127.6
27.5°	10301.2	10269.6	10255.6	10287.2	10125.6	9556.7	9844.7	11112.5	10989.6	10996.6
30°	9602.3	9591.8	9553.1	9619.9	9121.1	8415.2	8232.6	9953.5	9978.1	9971.1
32.5°	8562.7	8608.4	8784.0	8857.7	8035.9	7452.9	7147.3	8611.9	9114.1	9103.6
35°	6220.1	6220.1	6792.6	7856.8	7041.9	6602.9	6437.8	7301.8	8260.7	8295.8
37.5°	5113.7	5131.3	5243.7	5728.4	6076.1	5921.5	5872.4	6146.3	7164.9	7221.0
40°	4601.0	4601.0	4601.0	4400.8	4390.2	5335.0	5306.9	5219.1	6188.5	6311.4
42.5°	4133.8	4144.4	4151.4	3645.6	3364.7	4611.5	4548.3	4414.8	5313.9	5457.9
45°	3652.7	3670.2	3691.3	3048.6	2925.6	3319.0	3849.4	3701.8	4449.9	4636.1
47.5°	2230.2	2258.3	2736.0	2585.0	2599.0	2560.4	3139.9	3115.3	3649.2	3912.6
50°	1506.7	1517.3	1562.9	1640.2	2230.2	2012.5	2223.2	2577.9	2771.1	3171.5
52.5°	1264.4	1281.9	1169.6	1064.2	1464.6	1573.5	1552.4	1914.1	1991.4	2486.6
55°	888.6	944.8	892.1	881.6	832.4	1222.2	1176.6	1471.6	1520.8	1889.6
57.5°	91.3	105.4	182.6	656.8	544.4	691.9	839.4	1078.2	1127.4	1394.3
60°	7.0	7.0	17.6	91.3	396.9	414.4	579.5	663.8	758.6	972.9
62.5°	0.0	3.5	7.0	14.0	63.2	221.3	291.5	347.7	456.6	628.7
65°	0.0	0.0	3.5	10.5	14.0	84.3	112.4	182.6	249.4	389.9
67.5°	0.0	0.0	3.5	7.0	10.5	21.1	38.6	66.7	133.5	221.3
70°	0.0	0.0	3.5	7.0	10.5	17.6	28.1	42.1	59.7	119.4
72.5°	0.0	0.0	3.5	3.5	7.0	17.6	21.1	28.1	42.1	59.7
75°	0.0	0.0	3.5	3.5	10.5	21.1	17.6	21.1	28.1	38.6
77.5°	0.0	0.0	3.5	7.0	10.5	21.1	17.6	21.1	21.1	24.6
80°	0.0	0.0	3.5	7.0	14.0	24.6	21.1	21.1	17.6	17.6
82.5°	0.0	0.0	3.5	10.5	14.0	31.6	31.6	28.1	14.0	10.5
85°	0.0	0.0	7.0	14.0	21.1	35.1	35.1	28.1	10.5	7.0
87.5°	0.0	0.0	7.0	10.5	17.6	24.6	35.1	28.1	10.5	3.5
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°
18979.8	0°	18979.8	18979.8	18979.8	18979.8	18979.8	18979.8	18979.8	18979.8	18979.8
18920.1	2.5°	19015.0	18993.9	19064.1	19092.2	19130.9	18983.4	18892.0	18895.5	18727.0
18705.9	5°	18818.3	18821.8	18913.1	18906.1	18944.7	18863.9	18828.8	18769.1	18621.6
18435.5	7.5°	18568.9	18537.3	18625.1	18691.8	18593.5	18649.7	18568.9	18597.0	18509.2
18196.6	10°	18375.7	18302.0	18382.8	18428.4	18431.9	18375.7	18298.5	18224.7	18193.1
17824.3	12.5°	17947.3	17852.4	17989.4	18052.6	18042.1	17933.2	17845.4	17863.0	17761.1
17171.1	15°	17357.2	17360.7	17459.1	17518.8	17462.6	17438.0	17445.0	17402.9	17315.1
16268.4	17.5°	16454.6	16507.3	16767.2	16911.2	16942.8	16893.6	16869.0	16819.8	16732.0
14828.4	20°	14951.4	15267.5	15731.1	16177.1	16264.9	16250.9	16163.1	16142.0	16092.8
13402.5	22.5°	13630.8	13866.1	14403.5	15098.9	15457.1	15492.2	15386.9	15355.3	15302.6
12127.6	25°	12264.5	12517.4	13002.1	13757.2	14498.3	14649.3	14631.8	14536.9	14480.7
10996.6	27.5°	11112.5	11365.4	11804.4	12485.8	13279.6	13764.2	13809.9	13658.9	13655.4
9988.6	30°	10072.9	10420.6	10754.3	11309.2	12078.4	12805.4	12882.7	12777.3	12787.9
9064.9	32.5°	9258.1	9546.1	9830.6	10202.9	10842.1	11688.5	11990.6	11892.3	11853.6
8295.8	35°	8425.7	8622.4	8913.9	9254.6	9690.1	10529.5	11052.8	10979.1	10940.5
7256.2	37.5°	7477.4	7814.6	8025.3	8408.2	8748.8	9416.2	10153.7	10143.2	10062.4
6371.1	40°	6504.6	6859.3	7178.9	7565.2	7828.7	8359.0	9177.3	9173.8	9184.4
5454.4	42.5°	5623.0	5949.6	6336.0	6757.4	7010.3	7396.7	8274.7	8323.9	8383.6
4699.3	45°	4825.7	5120.8	5479.0	5991.8	6297.3	6518.6	7298.3	7523.1	7519.6
4025.0	47.5°	4109.3	4386.7	4688.8	5187.5	5577.3	5777.5	6423.8	6743.4	6722.3
3301.5	50°	3449.0	3694.8	4010.9	4372.7	4896.0	5071.6	5552.8	5974.2	5942.6
2630.6	52.5°	2774.6	3115.3	3382.2	3712.4	4263.8	4435.9	4808.2	5219.1	5194.5
1973.8	55°	2163.5	2493.7	2816.8	3101.3	3564.9	3821.3	4088.2	4509.6	4502.6
1545.4	57.5°	1636.7	1998.4	2304.0	2574.4	2943.2	3259.3	3473.5	3856.4	3905.5
1057.2	60°	1211.7	1489.2	1819.3	2121.4	2412.9	2739.5	2883.5	3259.3	3280.4
723.5	62.5°	825.4	1130.9	1454.0	1728.0	1945.7	2282.9	2412.9	2721.9	2760.6
463.6	65°	572.5	769.2	1137.9	1334.6	1601.6	1889.6	2019.5	2265.4	2342.6
266.9	67.5°	379.3	547.9	888.6	1067.7	1331.1	1527.8	1692.9	1893.1	1977.4
168.6	70°	207.2	403.9	635.7	842.9	1071.2	1260.9	1422.4	1584.0	1657.8
77.3	72.5°	140.5	270.4	442.5	667.3	864.0	1050.1	1194.1	1313.6	1317.1
45.7	75°	70.2	182.6	337.2	516.3	674.3	857.0	986.9	1057.2	972.9
28.1	77.5°	42.1	133.5	274.0	414.4	547.9	691.9	765.7	804.3	667.3
21.1	80°	24.6	94.8	214.2	330.1	379.3	509.3	579.5	590.0	446.0
14.0	82.5°	17.6	70.2	168.6	242.3	231.8	358.2	435.5	421.5	284.5
10.5	85°	10.5	49.2	105.4	151.0	140.5	235.3	252.9	259.9	165.1
7.0	87.5°	7.0	28.1	56.2	80.8	66.7	101.9	101.9	122.9	80.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
18979.8
18509.2
18586.5
18361.7
18052.6
17673.3
17227.3
16693.4
15980.4
15288.5
14421.0
13648.3
12735.2
11857.1
10887.8
10129.1
9184.4
8352.0
7526.6
6729.3
5970.7
5247.2
4520.2
3884.5
3312.0
2767.6
2325.1
1966.8
1629.7
1285.5
909.7
642.7
417.9
263.4
151.0
70.2
0.0

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