

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: P637002

Luminaire Tested: **IFLD-S-SA2E-722-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637002
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-722-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (32) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13258.4 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

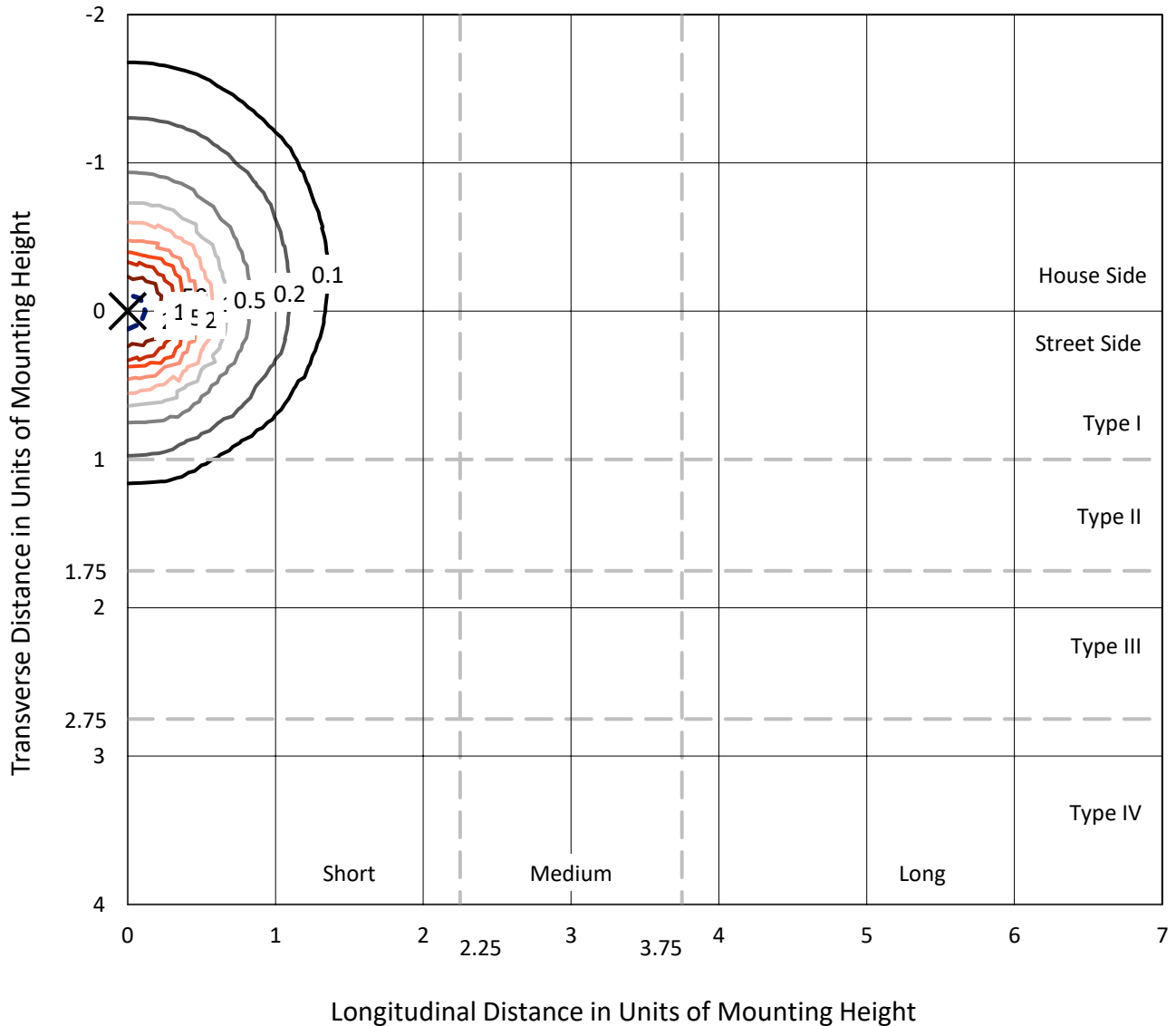
Input Watts (W): 156.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

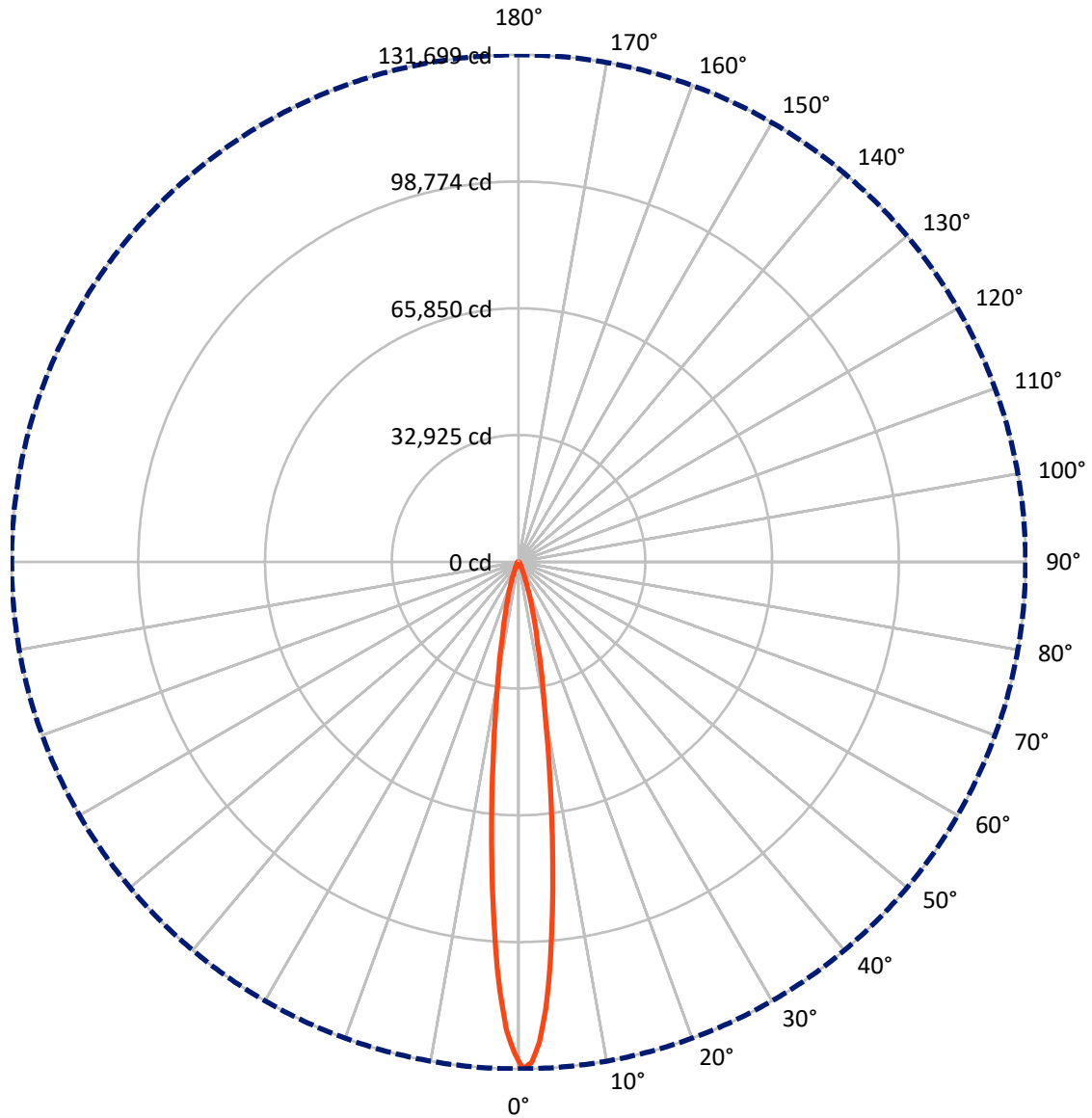
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 329.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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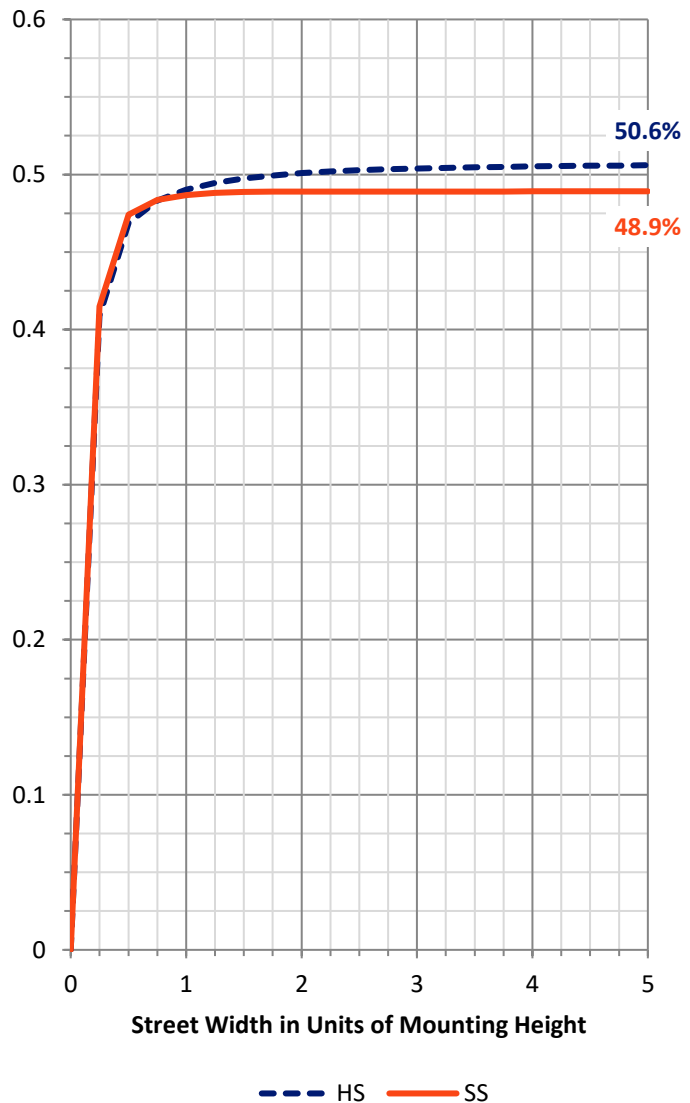
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6790.7	0.0	6790.7
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	6467.7	0.0	6467.7
	% Fixture	48.8	0.0	48.8
Total	Lumens	13258.4	0.0	13258.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6693.2	50.5
10°-20°	4285.0	32.3
20°-30°	1288.0	9.7
30°-40°	419.4	3.2
40°-50°	244.0	1.8
50°-60°	162.1	1.2
60°-70°	97.6	0.7
70°-80°	50.1	0.4
80°-90°	19.1	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°	13258.4	100.0
0°-180°	13258.4	100.0

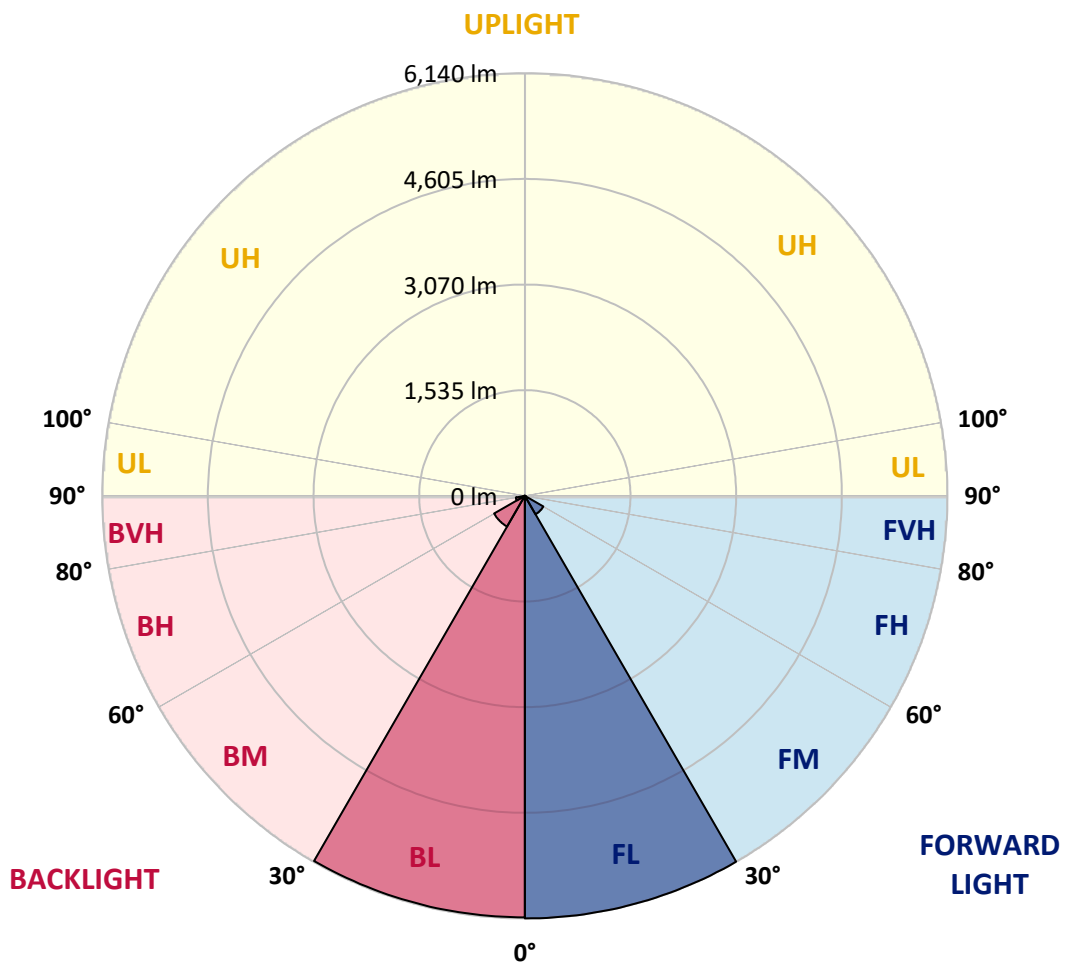


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6140.4	46.3			
FM (30°-60°)	309.9	2.3			
FH (60°-80°)	14.6	0.1			G0/660
FVH (80°-90°)	2.9	0.0			G0/10
BL (0°-30°)	6125.8	46.2	B5		
BM (30°-60°)	515.6	3.9	B1/1000		
BH (60°-80°)	133.1	1.0	B1/500		G0/660
BVH (80°-90°)	16.2	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 V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	131699.1	131699.1	131699.1	131699.1	131699.1	131699.1	131699.1	131699.1	131699.1	131699.1
1°	130122.2	129725.1	128699.8	129429.1	130070.2	129884.0	129871.0	129801.7	129704.9	130464.5
2°	124920.8	124663.7	123147.5	123772.7	124683.9	124019.7	124435.5	124070.2	124077.4	124984.3
3°	116152.5	116292.5	113873.7	115010.2	116276.6	114666.5	115166.2	116104.8	115121.4	114825.4
4°	104756.0	103540.1	102218.8	103374.0	103701.8	102764.6	103685.9	104835.4	103469.3	103530.0
5°	91745.1	90846.9	89283.0	89996.3	89183.3	89479.3	90859.9	91333.5	90380.4	89180.4
6°	78367.3	77729.1	75773.8	76802.0	76513.2	76345.7	78088.6	76644.6	77164.5	76438.1
7°	65186.0	63993.2	63032.9	64017.8	64081.3	63577.4	65840.2	65577.4	64631.5	64412.0
8°	54007.6	52817.7	52004.7	52738.3	53217.7	52426.4	53490.6	54189.6	53450.2	53516.6
9°	43559.9	43350.5	42219.8	43178.6	43700.0	42852.3	44030.6	44283.3	43591.6	43928.1
10°	35766.3	35522.3	34619.7	35008.2	35871.7	34860.9	35991.6	36073.9	35522.3	35679.7
12.5°	22102.7	22004.5	21979.9	22036.3	22024.7	22203.8	22492.6	22163.3	22120.0	21575.6
15°	14286.0	14431.9	14281.7	14570.5	14612.4	14781.3	14605.2	14339.5	13832.6	13581.3
17.5°	8915.6	9101.9	9358.9	9782.0	10205.1	10254.2	10020.3	9708.4	9462.9	9194.3
20°	5129.3	5220.3	5181.3	5688.1	6782.7	7080.2	6778.4	6450.6	6154.6	5883.1
22.5°	3187.0	3153.8	3214.5	3384.9	3741.5	4661.4	4414.5	4086.7	3871.5	3647.7
25°	1953.8	1989.9	1966.8	2060.7	2221.0	2610.8	2667.2	2525.6	2415.9	2300.4
27.5°	1257.8	1257.8	1267.9	1319.9	1429.6	1416.6	1717.0	1607.2	1548.0	1491.7
30°	873.7	876.5	876.5	906.9	931.4	888.1	966.1	1107.6	1080.2	1036.8
32.5°	648.4	657.0	664.3	680.1	659.9	613.7	632.5	797.1	781.2	765.3
35°	493.9	501.1	518.4	527.1	498.2	469.3	452.0	586.3	593.5	589.2
37.5°	359.6	363.9	395.7	428.9	395.7	369.7	359.6	450.5	485.2	480.9
40°	275.8	277.3	283.0	320.6	320.6	300.4	303.3	336.5	397.1	397.1
42.5°	236.8	236.8	242.6	236.8	238.3	259.9	267.1	271.5	336.5	336.5
45°	205.1	205.1	207.9	193.5	179.1	223.8	229.6	231.0	283.0	290.3
47.5°	171.8	171.8	177.6	158.8	151.6	177.6	193.5	197.8	244.0	249.8
50°	127.1	128.5	145.8	130.0	134.3	137.2	167.5	170.4	206.5	219.5
52.5°	85.2	85.2	88.1	101.1	117.0	112.6	135.7	145.8	164.6	182.0
55°	69.3	69.3	67.9	65.0	86.6	93.9	99.6	121.3	134.3	156.0
57.5°	47.7	50.5	46.2	53.4	56.3	70.8	75.1	95.3	102.5	131.4
60°	5.8	7.2	10.1	39.0	37.5	47.7	56.3	75.1	83.8	101.1
62.5°	1.4	1.4	2.9	7.2	26.0	31.8	44.8	52.0	60.7	78.0
65°	0.0	0.0	1.4	2.9	5.8	17.3	23.1	30.3	43.3	54.9
67.5°	0.0	0.0	1.4	2.9	2.9	7.2	11.6	18.8	23.1	40.4
70°	0.0	0.0	1.4	2.9	2.9	5.8	7.2	8.7	15.9	21.7
72.5°	0.0	0.0	1.4	2.9	4.3	5.8	7.2	7.2	7.2	14.4
75°	0.0	0.0	1.4	2.9	4.3	5.8	7.2	7.2	5.8	5.8
77.5°	0.0	0.0	1.4	2.9	5.8	7.2	8.7	7.2	4.3	4.3
80°	0.0	0.0	1.4	4.3	7.2	10.1	11.6	8.7	4.3	2.9
82.5°	0.0	0.0	2.9	5.8	8.7	11.6	15.9	13.0	5.8	2.9
85°	0.0	0.0	1.4	4.3	8.7	11.6	23.1	15.9	7.2	1.4
87.5°	0.0	0.0	0.0	1.4	1.4	2.9	8.7	5.8	2.9	1.4
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°
131699.1	0°	131699.1	131699.1	131699.1	131699.1	131699.1	131699.1	131699.1	131699.1
129587.9	1°	130493.4	130584.3	130286.9	130747.5	130585.8	129638.5	129325.1	128954.0
124451.4	2°	124070.2	124533.7	124556.8	125068.0	125060.8	123956.1	123613.9	124244.9
115426.1	3°	115076.6	115616.7	115130.1	116038.4	115765.5	114425.4	114077.4	114793.6
104009.4	4°	103698.9	103596.4	103428.9	102911.9	103548.8	102634.7	101945.9	102917.7
90771.8	5°	90589.8	90361.7	90035.3	89882.2	90355.9	89771.0	88354.4	89773.9
77752.2	6°	77847.5	76865.5	76817.9	76732.7	76780.3	75142.8	75241.0	76298.0
63656.8	7°	64329.7	64510.2	64142.0	64732.6	64282.0	63173.0	62745.6	63858.9
53808.3	8°	53432.9	53204.7	52923.1	53805.4	53024.2	52296.4	51798.2	52677.6
43983.0	9°	43900.7	43506.4	43220.5	43175.8	43297.1	41931.0	42208.2	42874.0
35766.3	10°	35779.3	35132.4	35289.8	35331.7	35198.8	34303.5	34312.2	34541.8
21936.6	12.5°	21858.6	21540.9	21620.4	21663.7	21933.7	21618.9	21174.2	20853.6
13831.1	15°	13738.7	13510.6	13977.0	14290.4	14226.8	13946.7	13737.3	13447.0
9194.3	17.5°	9109.1	9408.0	9409.5	9695.4	9724.3	9444.1	9282.4	9021.0
5979.8	20°	5958.2	6082.4	6340.8	6543.0	6660.0	6446.3	6252.8	6073.7
3728.5	22.5°	3728.5	3945.2	4106.9	4369.7	4476.6	4320.6	4183.4	4037.6
2327.8	25°	2288.8	2443.3	2577.6	2805.8	2951.6	2876.6	2750.9	2648.4
1503.3	27.5°	1526.4	1591.3	1657.8	1815.2	1966.8	1924.9	1874.4	1812.3
1059.9	30°	1075.8	1081.6	1152.4	1240.4	1341.5	1367.5	1344.4	1312.6
778.3	32.5°	792.8	815.9	849.1	904.0	971.8	1033.9	1022.4	1007.9
595.0	35°	612.3	646.9	674.4	716.3	752.4	811.6	821.7	817.3
489.5	37.5°	499.6	530.0	557.4	582.0	612.3	652.7	684.5	685.9
404.3	40°	414.4	441.9	478.0	496.8	518.4	548.7	587.7	590.6
342.2	42.5°	349.5	375.5	411.6	434.7	450.5	479.4	518.4	524.2
293.1	45°	300.4	316.2	353.8	381.2	397.1	415.9	457.8	463.5
252.7	47.5°	261.4	277.3	300.4	339.4	353.8	371.1	404.3	414.4
223.8	50°	229.6	245.5	265.7	300.4	322.0	336.5	363.9	378.3
194.9	52.5°	203.6	219.5	241.2	268.6	293.1	306.1	332.1	350.9
158.8	55°	170.4	197.8	213.7	238.3	271.5	283.0	303.3	327.8
138.6	57.5°	148.7	171.8	194.9	215.2	248.4	262.8	283.0	306.1
109.7	60°	125.6	147.3	174.7	192.1	223.8	242.6	264.3	285.9
83.8	62.5°	99.6	128.5	147.3	171.8	202.2	226.7	244.0	265.7
65.0	65°	73.6	105.4	127.1	153.1	182.0	207.9	222.4	245.5
46.2	67.5°	53.4	82.3	108.3	132.9	160.3	186.3	200.7	220.9
28.9	70°	41.9	60.7	89.5	111.2	140.1	161.7	177.6	190.6
18.8	72.5°	24.5	46.2	72.2	96.8	122.7	137.2	148.7	160.3
8.7	75°	15.9	36.1	59.2	80.9	99.6	112.6	122.7	132.9
4.3	77.5°	10.1	26.0	47.7	67.9	76.5	92.4	101.1	106.9
2.9	80°	5.8	20.2	41.9	54.9	62.1	72.2	80.9	88.1
2.9	82.5°	4.3	17.3	34.7	46.2	46.2	57.8	62.1	62.1
1.4	85°	2.9	14.4	27.4	43.3	34.7	43.3	40.4	40.4
1.4	87.5°	2.9	10.1	13.0	18.8	15.9	18.8	18.8	21.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
131699.1
127483.9
121572.0
111612.4
99400.0
86033.8
73233.7
60830.8
50166.4
40794.5
32979.3
20658.6
13298.3
8956.0
6011.6
3959.6
2589.2
1776.2
1291.0
996.4
802.9
675.8
586.3
519.9
462.1
415.9
379.8
350.9
329.2
307.6
291.7
275.8
249.8
222.4
194.9
163.2
132.9
104.0
79.4
57.8
39.0
21.7
0.0

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