

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: P637252

Luminaire Tested: **IFLD-L-SA7C-830-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637252
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-830-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35030.9 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

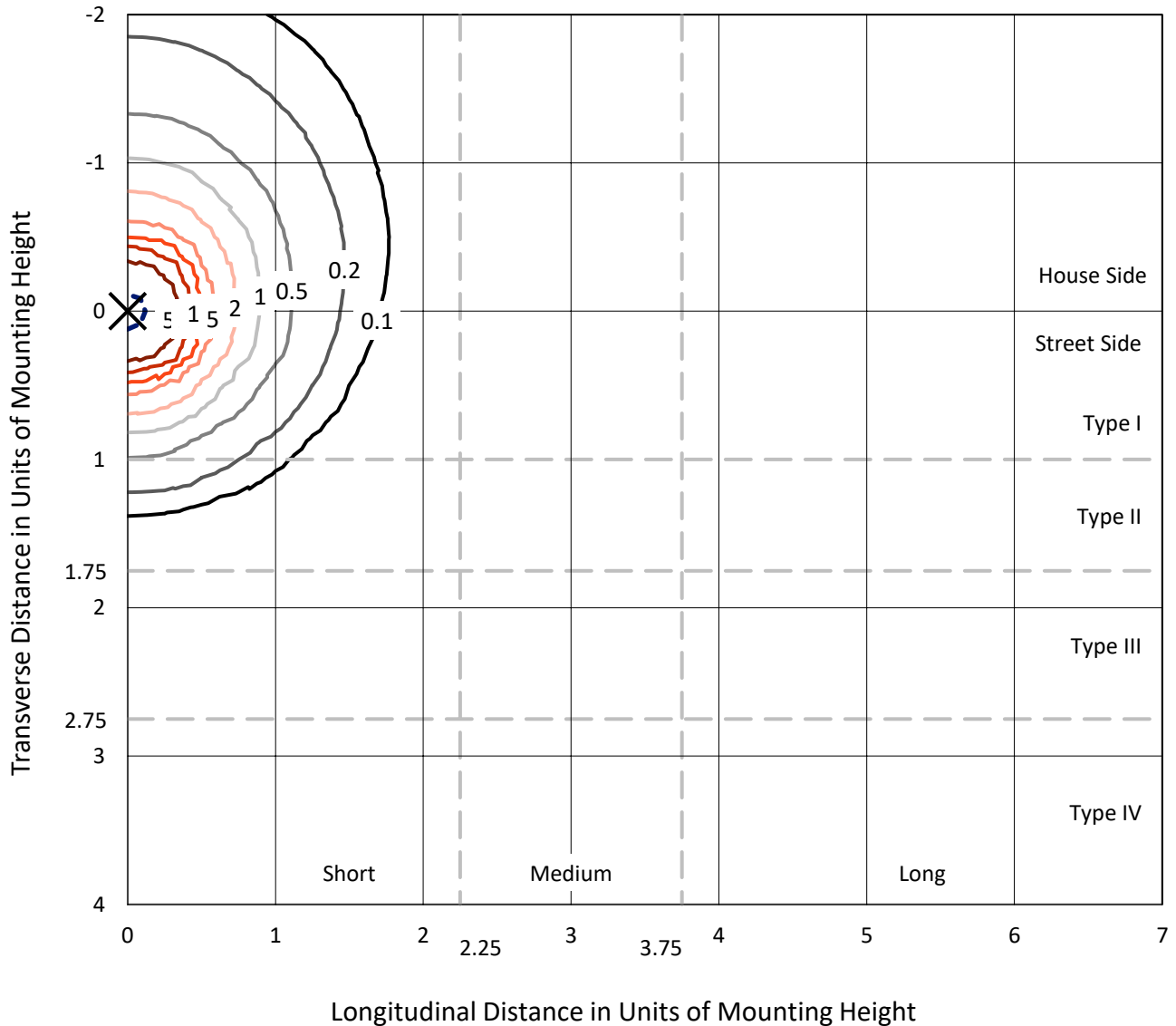
Input Watts (W): 369
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

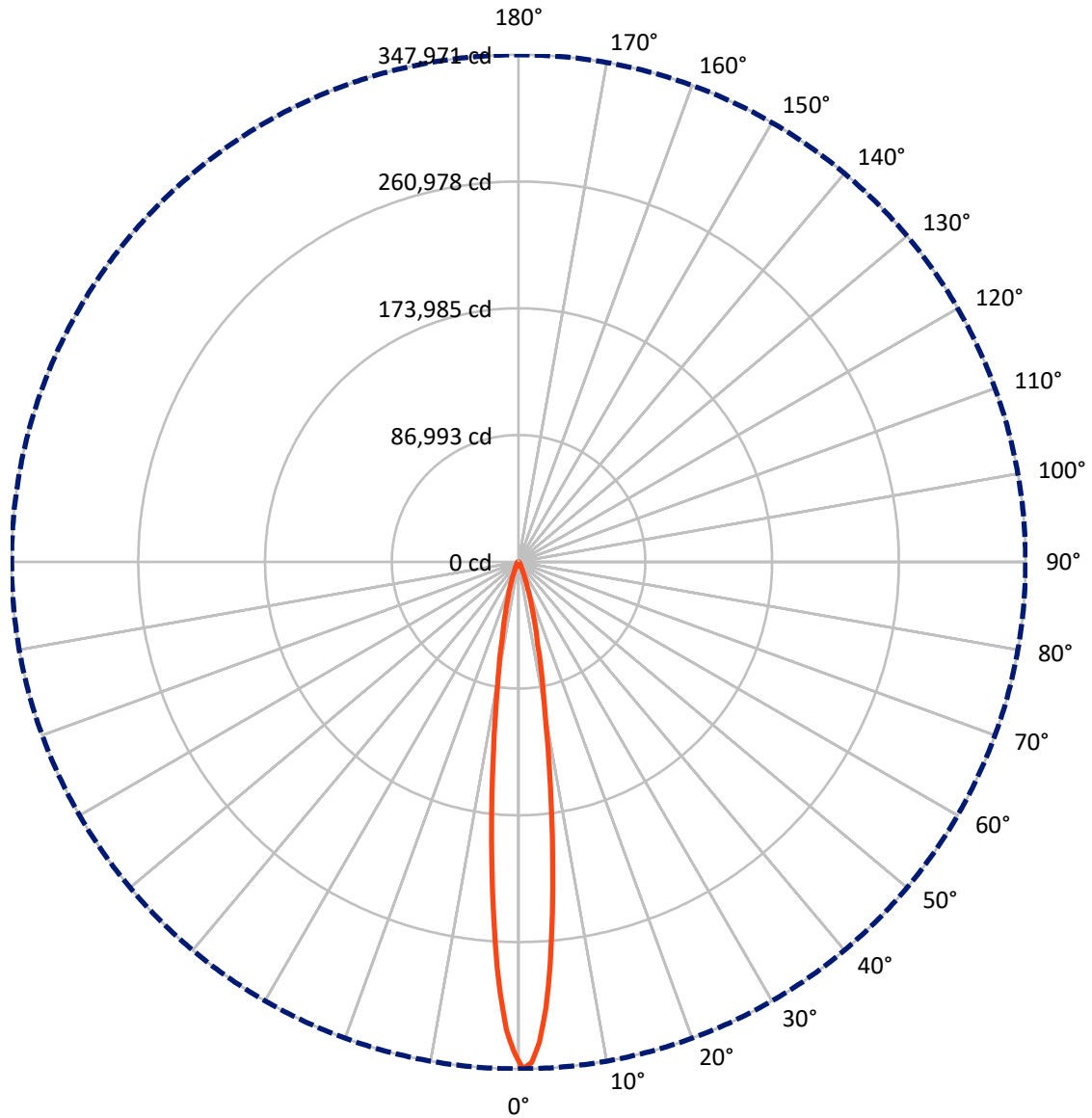
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 869.9 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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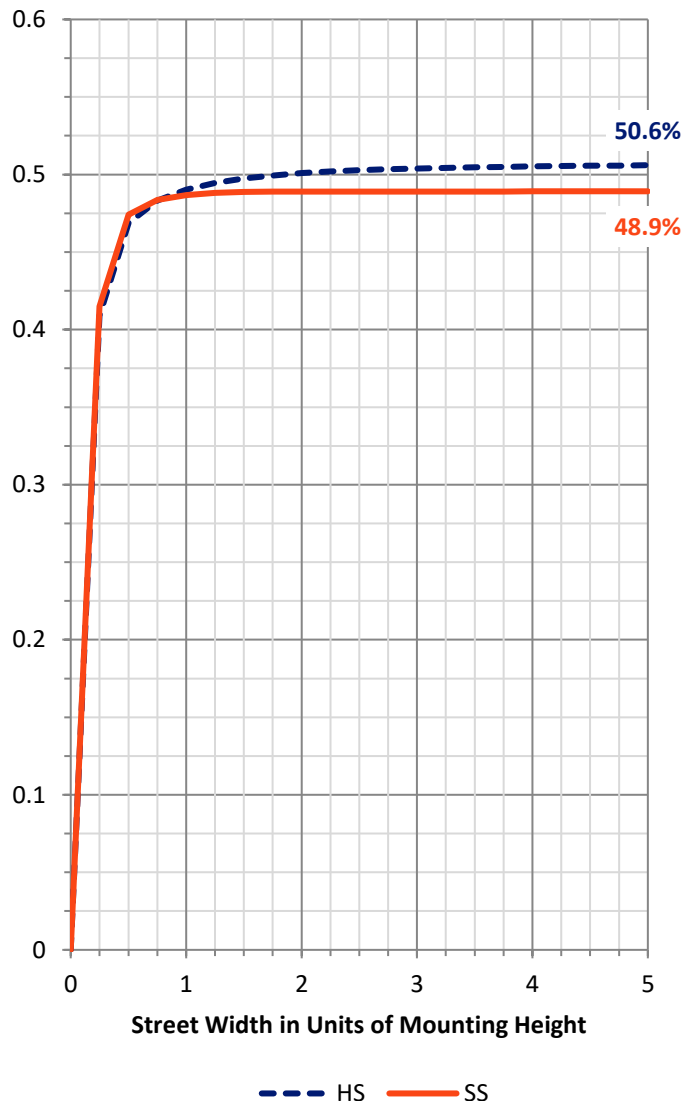
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17942.2	0.0	17942.2
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	17088.7	0.0	17088.7
	% Fixture	48.8	0.0	48.8
Total	Lumens	35030.9	0.0	35030.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17684.7	50.5
10°-20°	11321.6	32.3
20°-30°	3403.1	9.7
30°-40°	1108.0	3.2
40°-50°	644.7	1.8
50°-60°	428.2	1.2
60°-70°	257.8	0.7
70°-80°	132.5	0.4
80°-90°	50.3	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°	35030.9	100.0
0°-180°	35030.9	100.0

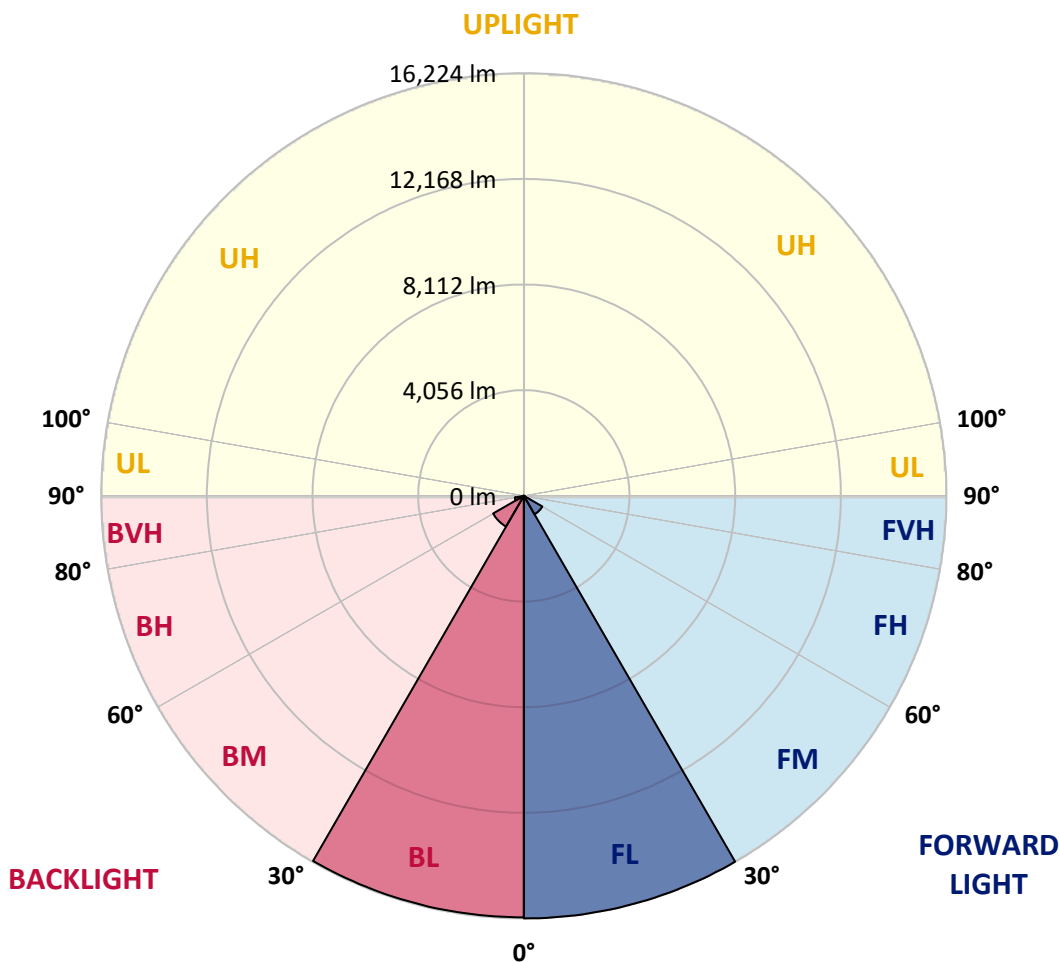


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	16223.9	46.3			
FM (30°-60°)	818.7	2.3			
FH (60°-80°)	38.5	0.1			G0/660
FVH (80°-90°)	7.6	0.0			G0/10
BL (0°-30°)	16185.5	46.2	B5		
BM (30°-60°)	1362.3	3.9	B2/2500		
BH (60°-80°)	351.7	1.0	B1/500		G0/660
BVH (80°-90°)	42.7	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°	347970.6	347970.6	347970.6	347970.6	347970.6	347970.6	347970.6	347970.6	347970.6	347970.6
1°	343804.1	342754.9	340045.9	341972.7	343666.8	343174.6	343140.2	342957.1	342701.5	344708.4
2°	330061.0	329381.8	325375.6	327027.7	329435.2	327680.1	328779.0	327813.7	327832.8	330228.8
3°	306893.7	307263.8	300873.0	303875.7	307221.8	302967.6	304287.8	306767.8	304169.5	303387.3
4°	276782.4	273569.8	270078.7	273131.0	273997.1	271520.9	273955.1	276992.2	273382.8	273543.1
5°	242405.4	240032.2	235900.1	237784.9	235636.8	236419.0	240066.5	241318.0	238799.8	235629.2
6°	207059.3	205372.9	200206.8	202923.4	202160.3	201717.7	206322.9	202507.5	203881.1	201961.9
7°	172232.1	169080.6	166543.3	169145.4	169313.3	167981.7	173960.5	173266.1	170767.0	170187.0
8°	142696.9	139553.0	137404.9	139343.1	140609.9	138519.0	141331.0	143177.6	141224.1	141399.7
9°	115092.3	114539.1	111551.6	114085.0	115462.4	113222.7	116336.1	117003.8	115176.2	116065.2
10°	94500.4	93855.6	91471.0	92497.3	94779.0	92108.2	95095.7	95313.1	93855.6	94271.5
12.5°	58398.9	58139.4	58074.6	58223.4	58192.9	58666.0	59429.1	58559.1	58444.7	57006.3
15°	37746.0	38131.4	37734.6	38497.6	38608.3	39054.7	38589.2	37887.2	36548.0	35884.1
17.5°	23556.4	24048.6	24727.8	25845.7	26963.6	27093.3	26475.2	25651.1	25002.5	24292.8
20°	13552.4	13792.8	13689.7	15029.0	17921.1	18707.0	17909.6	17043.5	16261.3	15544.0
22.5°	8420.6	8332.9	8493.1	8943.4	9885.8	12316.2	11663.8	10797.7	10229.2	9637.8
25°	5162.3	5257.7	5196.6	5444.6	5868.1	6898.3	7047.1	6673.2	6383.2	6078.0
27.5°	3323.2	3323.2	3349.9	3487.3	3777.3	3742.9	4536.5	4246.6	4090.1	3941.3
30°	2308.3	2316.0	2316.0	2396.1	2460.9	2346.5	2552.5	2926.4	2853.9	2739.5
32.5°	1713.1	1736.0	1755.1	1797.1	1743.6	1621.6	1671.2	2106.1	2064.1	2022.2
35°	1304.9	1324.0	1369.7	1392.6	1316.3	1240.0	1194.2	1549.1	1568.1	1556.7
37.5°	950.0	961.5	1045.4	1133.2	1045.4	976.7	950.0	1190.4	1282.0	1270.5
40°	728.7	732.6	747.8	847.0	847.0	793.6	801.2	889.0	1049.2	1049.2
42.5°	625.7	625.7	641.0	625.7	629.5	686.8	705.9	717.3	889.0	889.0
45°	541.8	541.8	549.4	511.3	473.1	591.4	606.7	610.5	747.8	766.9
47.5°	454.0	454.0	469.3	419.7	400.6	469.3	511.3	522.7	644.8	660.1
50°	335.8	339.6	385.4	343.4	354.8	362.5	442.6	450.2	545.6	579.9
52.5°	225.1	225.1	232.7	267.1	309.0	297.6	358.6	385.4	435.0	480.7
55°	183.1	183.1	179.3	171.7	228.9	248.0	263.3	320.5	354.8	412.1
57.5°	125.9	133.5	122.1	141.2	148.8	187.0	198.4	251.8	270.9	347.2
60°	15.3	19.1	26.7	103.0	99.2	125.9	148.8	198.4	221.3	267.1
62.5°	3.8	3.8	7.6	19.1	68.7	83.9	118.3	137.4	160.2	206.0
65°	0.0	0.0	3.8	7.6	15.3	45.8	61.0	80.1	114.5	145.0
67.5°	0.0	0.0	3.8	7.6	7.6	19.1	30.5	49.6	61.0	106.8
70°	0.0	0.0	3.8	7.6	7.6	15.3	19.1	22.9	42.0	57.2
72.5°	0.0	0.0	3.8	7.6	11.4	15.3	19.1	19.1	19.1	38.2
75°	0.0	0.0	3.8	7.6	11.4	15.3	19.1	19.1	15.3	15.3
77.5°	0.0	0.0	3.8	7.6	15.3	19.1	22.9	19.1	11.4	11.4
80°	0.0	0.0	3.8	11.4	19.1	26.7	30.5	22.9	11.4	7.6
82.5°	0.0	0.0	7.6	15.3	22.9	30.5	42.0	34.3	15.3	7.6
85°	0.0	0.0	3.8	11.4	22.9	30.5	61.0	42.0	19.1	3.8
87.5°	0.0	0.0	0.0	3.8	3.8	7.6	22.9	15.3	7.6	3.8
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°
347970.6	0°	347970.6	347970.6	347970.6	347970.6	347970.6	347970.6	347970.6	347970.6
342392.4	1°	344784.7	345025.1	344239.1	345456.2	345028.9	342526.0	341698.0	340717.5
328821.0	2°	327813.7	329038.4	329099.5	330450.1	330431.1	327512.3	326608.0	328275.4
304974.6	3°	304051.2	305478.2	304192.4	306592.3	305871.2	302330.5	301410.9	303303.4
274809.8	4°	273989.5	273718.6	273276.0	271910.1	273592.7	271177.5	269357.6	271925.3
239833.8	5°	239353.1	238750.2	237887.9	237483.5	238735.0	237189.7	233446.8	237197.3
205433.9	6°	205685.7	203091.3	202965.3	202740.2	202866.1	198539.5	198798.9	201591.8
168191.6	7°	169969.6	170446.5	169473.5	171034.1	169843.6	166913.4	165784.0	168725.7
142170.4	8°	141178.4	140575.5	139831.5	142162.7	140098.6	138175.6	136859.3	139182.9
116210.2	9°	115992.7	114951.1	114195.7	114077.4	114397.9	110788.5	111521.1	113280.0
94500.4	10°	94534.8	92825.5	93241.4	93352.0	93001.0	90635.4	90658.3	91265.0
57960.1	12.5°	57754.1	56914.7	57124.5	57239.0	57952.5	57120.7	55945.6	55098.6
36544.1	15°	36300.0	35697.1	36929.5	37757.4	37589.6	36849.4	36296.1	35529.2
24292.8	17.5°	24067.7	24857.5	24861.3	25616.8	25693.1	24952.9	24525.6	23835.0
15799.7	20°	15742.4	16070.6	16753.5	17287.7	17596.7	17032.1	16520.8	16047.7
9851.4	22.5°	9851.4	10423.7	10851.1	11545.5	11827.8	11415.8	11053.3	10667.9
6150.5	25°	6047.4	6455.7	6810.5	7413.4	7798.7	7600.3	7268.4	6997.5
3971.9	27.5°	4032.9	4204.6	4380.1	4796.0	5196.6	5086.0	4952.4	4788.4
2800.5	30°	2842.5	2857.8	3044.7	3277.5	3544.5	3613.2	3552.2	3468.2
2056.5	32.5°	2094.7	2155.7	2243.5	2388.5	2567.8	2731.8	2701.3	2663.2
1572.0	35°	1617.7	1709.3	1781.8	1892.5	1987.8	2144.3	2171.0	2159.5
1293.4	37.5°	1320.1	1400.3	1472.8	1537.6	1617.7	1724.6	1808.5	1812.3
1068.3	40°	1095.0	1167.5	1262.9	1312.5	1369.7	1449.9	1552.9	1560.5
904.3	42.5°	923.3	992.0	1087.4	1148.4	1190.4	1266.7	1369.7	1385.0
774.5	45°	793.6	835.6	934.8	1007.3	1049.2	1098.8	1209.5	1224.8
667.7	47.5°	690.6	732.6	793.6	896.6	934.8	980.6	1068.3	1095.0
591.4	50°	606.7	648.6	702.0	793.6	850.8	889.0	961.5	999.6
515.1	52.5°	538.0	579.9	637.2	709.7	774.5	808.9	877.5	927.1
419.7	55°	450.2	522.7	564.7	629.5	717.3	747.8	801.2	866.1
366.3	57.5°	393.0	454.0	515.1	568.5	656.3	694.4	747.8	808.9
290.0	60°	331.9	389.2	461.7	507.5	591.4	641.0	698.2	755.5
221.3	62.5°	263.3	339.6	389.2	454.0	534.2	599.0	644.8	702.0
171.7	65°	194.6	278.5	335.8	404.4	480.7	549.4	587.6	648.6
122.1	67.5°	141.2	217.5	286.2	351.0	423.5	492.2	530.3	583.8
76.3	70°	110.6	160.2	236.6	293.8	370.1	427.3	469.3	503.6
49.6	72.5°	64.9	122.1	190.8	255.6	324.3	362.5	393.0	423.5
22.9	75°	42.0	95.4	156.4	213.7	263.3	297.6	324.3	351.0
11.4	77.5°	26.7	68.7	125.9	179.3	202.2	244.2	267.1	282.3
7.6	80°	15.3	53.4	110.6	145.0	164.1	190.8	213.7	232.7
7.6	82.5°	11.4	45.8	91.6	122.1	122.1	152.6	164.1	164.1
3.8	85°	7.6	38.2	72.5	114.5	91.6	114.5	106.8	106.8
3.8	87.5°	7.6	26.7	34.3	49.6	42.0	49.6	49.6	57.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
347970.6
336833.4
321213.0
294898.0
262631.0
227315.4
193495.5
160724.8
132547.9
107785.8
87136.7
54583.5
35136.2
23663.3
15883.6
10461.9
6841.1
4693.0
3411.0
2632.6
2121.4
1785.6
1549.1
1373.6
1220.9
1098.8
1003.5
927.1
869.9
812.7
770.7
728.7
660.1
587.6
515.1
431.1
351.0
274.7
209.8
152.6
103.0
57.2
0.0

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