

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: P637247

Luminaire Tested: **IFLD-M-SA4C-830-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637247
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-830-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (64) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22467.1 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

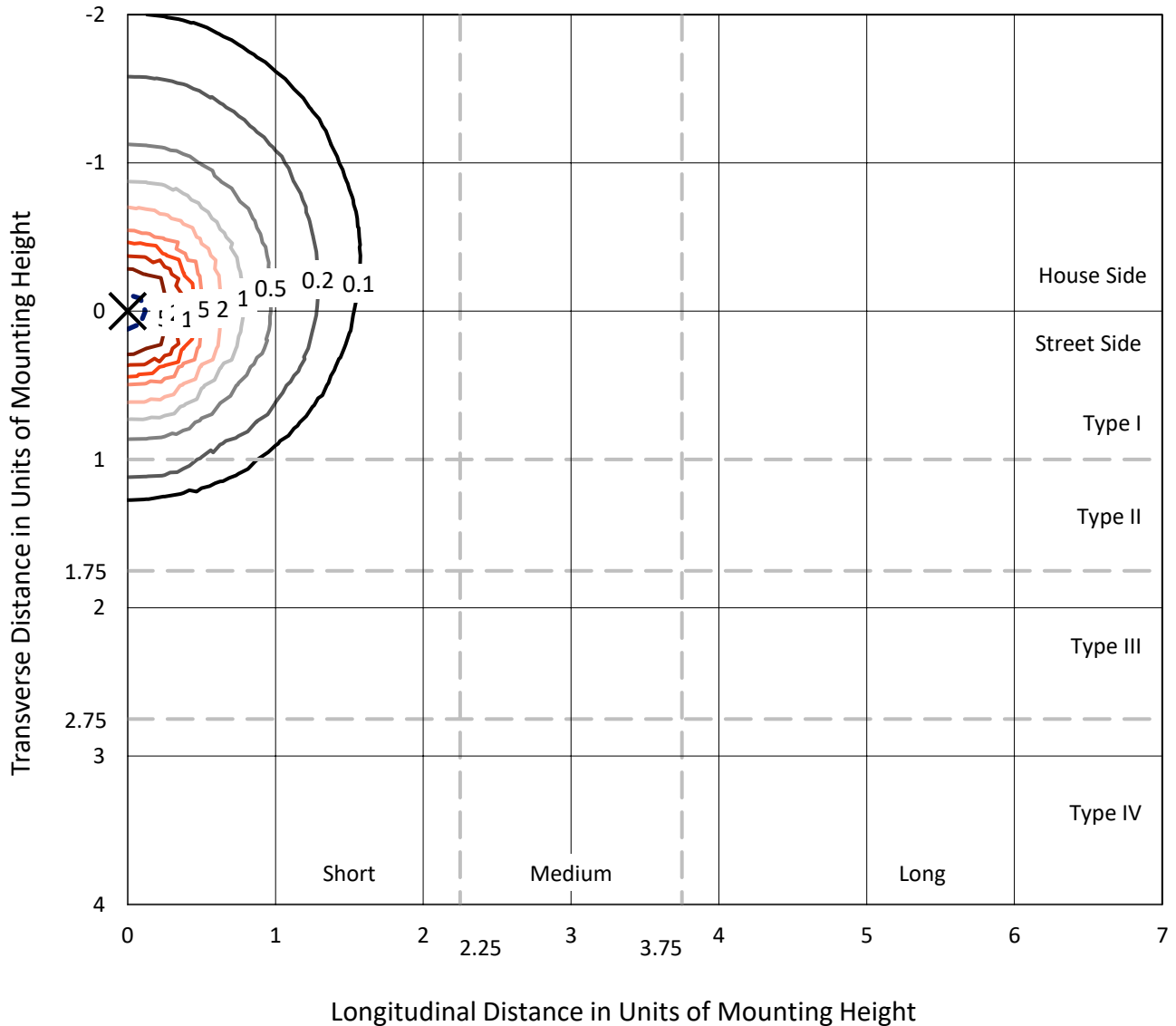
Input Watts (W): 218.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

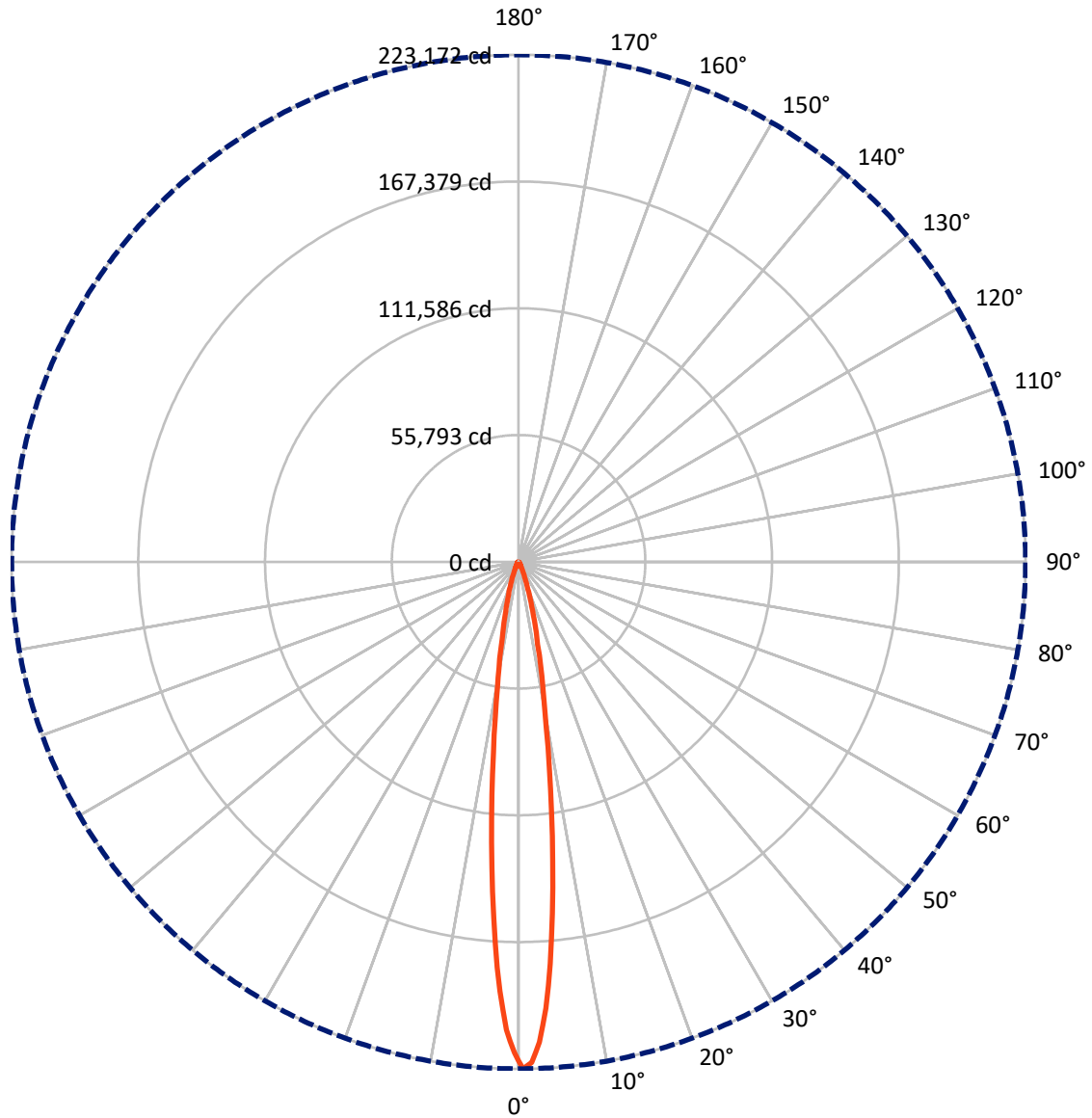
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 557.9 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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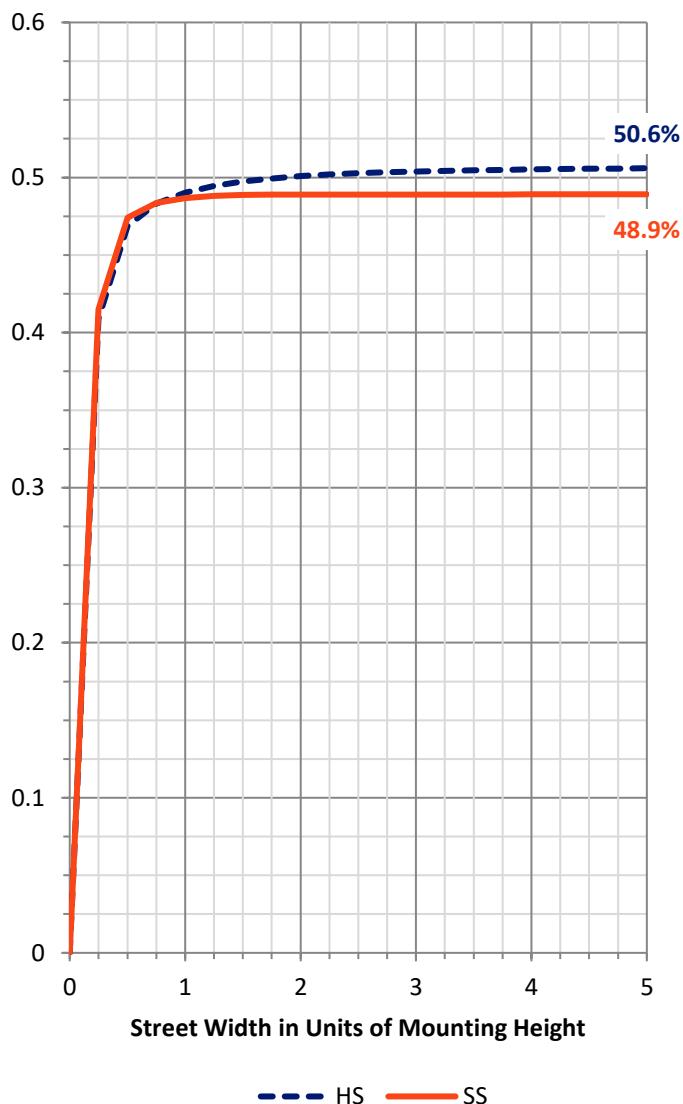
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11507.3	0.0	11507.3
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	10959.9	0.0	10959.9
	% Fixture	48.8	0.0	48.8
Total	Lumens	22467.1	0.0	22467.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11342.1	50.5
10°-20°	7261.2	32.3
20°-30°	2182.6	9.7
30°-40°	710.7	3.2
40°-50°	413.5	1.8
50°-60°	274.6	1.2
60°-70°	165.3	0.7
70°-80°	85.0	0.4
80°-90°	32.3	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°	22467.1	100.0
0°-180°	22467.1	100.0

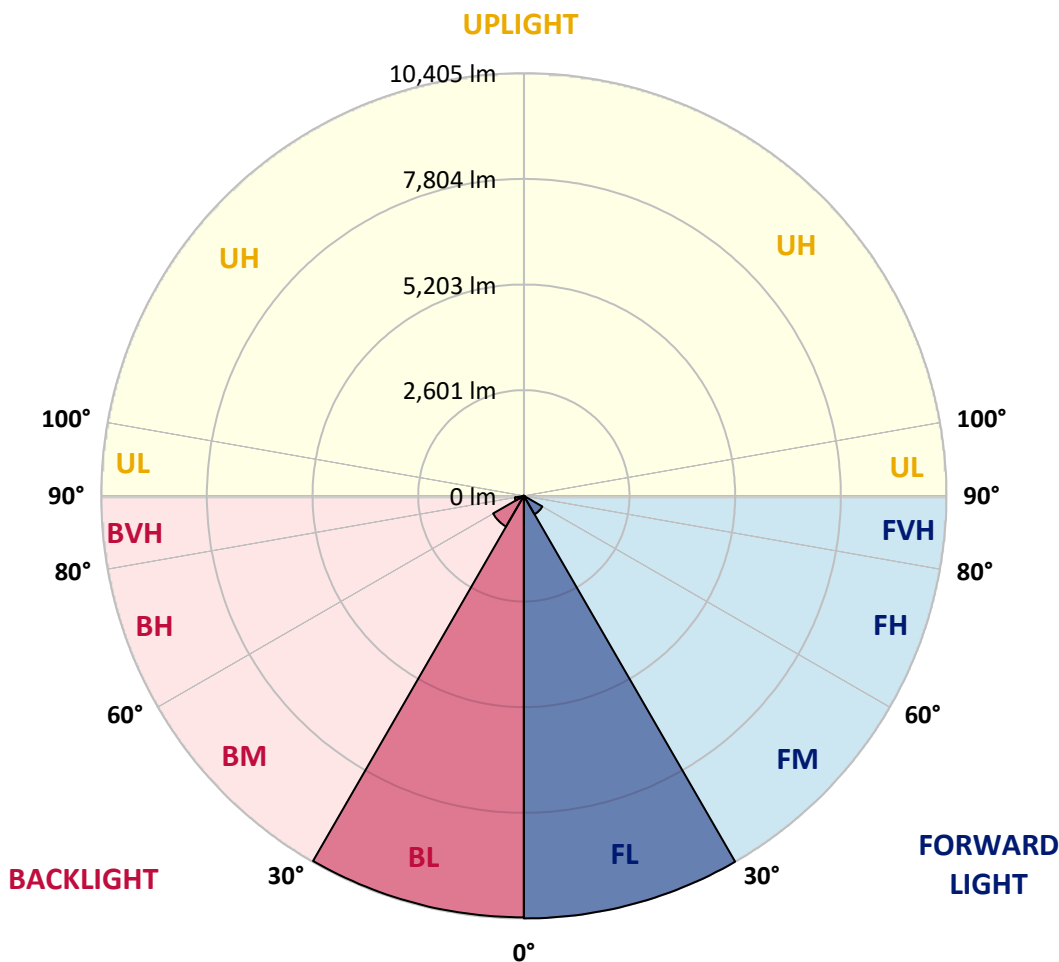


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10405.2	46.3			
FM (30°-60°)	525.1	2.3			
FH (60°-80°)	24.7	0.1			G0/660
FVH (80°-90°)	4.9	0.0			G0/10
BL (0°-30°)	10380.6	46.2	B5		
BM (30°-60°)	873.7	3.9	B1/1000		
BH (60°-80°)	225.6	1.0	B1/500		G0/660
BVH (80°-90°)	27.4	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°	223171.6	223171.6	223171.6	223171.6	223171.6	223171.6	223171.6	223171.6	223171.6	223171.6
1°	220499.5	219826.5	218089.1	219324.9	220411.4	220095.7	220073.7	219956.2	219792.3	221079.4
2°	211685.3	211249.7	208680.3	209739.9	211283.9	210158.3	210863.1	210244.0	210256.2	211792.9
3°	196826.9	197064.2	192965.5	194891.3	197037.3	194308.9	195155.6	196746.1	195079.7	194578.1
4°	177514.9	175454.5	173215.5	175173.1	175728.6	174140.5	175701.7	177649.5	175334.6	175437.4
5°	155467.2	153945.1	151295.0	152503.8	151126.1	151627.8	153967.2	154769.8	153154.7	151121.3
6°	132797.9	131716.3	128403.0	130145.3	129655.9	129372.0	132325.6	129878.6	130759.5	129528.7
7°	110461.4	108440.2	106812.9	108481.8	108589.4	107735.4	111569.9	111124.5	109521.7	109149.8
8°	91518.9	89502.6	88124.9	89368.0	90180.4	88839.4	90642.9	91827.3	90574.4	90686.9
9°	73814.7	73459.9	71543.8	73168.7	74052.0	72615.6	74612.4	75040.6	73868.5	74438.7
10°	60608.0	60194.5	58665.1	59323.4	60786.7	59073.8	60989.8	61129.3	60194.5	60461.2
12.5°	37454.2	37287.8	37246.2	37341.7	37322.1	37625.5	38114.9	37557.0	37483.6	36561.1
15°	24208.5	24455.6	24201.1	24690.5	24761.5	25047.8	24749.3	24299.0	23440.1	23014.3
17.5°	15108.0	15423.6	15859.2	16576.2	17293.2	17376.4	16979.9	16451.4	16035.4	15580.2
20°	8691.9	8846.0	8779.9	9638.9	11493.7	11997.8	11486.4	10930.9	10429.2	9969.2
22.5°	5400.6	5344.3	5447.1	5735.8	6340.3	7899.0	7480.6	6925.1	6560.5	6181.2
25°	3310.8	3372.0	3332.9	3491.9	3763.5	4424.2	4519.7	4279.9	4093.9	3898.1
27.5°	2131.4	2131.4	2148.5	2236.6	2422.6	2400.5	2909.5	2723.5	2623.2	2527.8
30°	1480.5	1485.3	1485.3	1536.7	1578.3	1504.9	1637.1	1876.9	1830.4	1757.0
32.5°	1098.7	1113.4	1125.6	1152.6	1118.3	1040.0	1071.8	1350.8	1323.8	1296.9
35°	836.9	849.1	878.5	893.2	844.2	795.3	765.9	993.5	1005.7	998.4
37.5°	609.3	616.7	670.5	726.8	670.5	626.4	609.3	763.5	822.2	814.9
40°	467.4	469.8	479.6	543.2	543.2	509.0	513.9	570.2	672.9	672.9
42.5°	401.3	401.3	411.1	401.3	403.8	440.5	452.7	460.0	570.2	570.2
45°	347.5	347.5	352.4	327.9	303.4	379.3	389.1	391.5	479.6	491.9
47.5°	291.2	291.2	301.0	269.2	256.9	301.0	327.9	335.2	413.5	423.3
50°	215.3	217.8	247.2	220.2	227.6	232.5	283.9	288.7	349.9	371.9
52.5°	144.4	144.4	149.3	171.3	198.2	190.9	230.0	247.2	279.0	308.3
55°	117.5	117.5	115.0	110.1	146.8	159.1	168.8	205.6	227.6	264.3
57.5°	80.8	85.6	78.3	90.5	95.4	119.9	127.2	161.5	173.7	222.7
60°	9.8	12.2	17.1	66.1	63.6	80.8	95.4	127.2	141.9	171.3
62.5°	2.4	2.4	4.9	12.2	44.0	53.8	75.9	88.1	102.8	132.1
65°	0.0	0.0	2.4	4.9	9.8	29.4	39.2	51.4	73.4	93.0
67.5°	0.0	0.0	2.4	4.9	4.9	12.2	19.6	31.8	39.2	68.5
70°	0.0	0.0	2.4	4.9	4.9	9.8	12.2	14.7	26.9	36.7
72.5°	0.0	0.0	2.4	4.9	7.3	9.8	12.2	12.2	12.2	24.5
75°	0.0	0.0	2.4	4.9	7.3	9.8	12.2	12.2	9.8	9.8
77.5°	0.0	0.0	2.4	4.9	9.8	12.2	14.7	12.2	7.3	7.3
80°	0.0	0.0	2.4	7.3	12.2	17.1	19.6	14.7	7.3	4.9
82.5°	0.0	0.0	4.9	9.8	14.7	19.6	26.9	22.0	9.8	4.9
85°	0.0	0.0	2.4	7.3	14.7	19.6	39.2	26.9	12.2	2.4
87.5°	0.0	0.0	0.0	2.4	2.4	4.9	14.7	9.8	4.9	2.4
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°
223171.6	0°	223171.6	223171.6	223171.6	223171.6	223171.6	223171.6	223171.6	223171.6	223171.6
219594.1	1°	221128.3	221282.5	220778.4	221559.0	221285.0	219679.7	219148.7	218519.8	217614.4
210890.0	2°	210244.0	211029.5	211068.6	211934.9	211922.6	210050.6	209470.7	210540.0	208452.7
195596.0	3°	195003.8	195919.0	195094.4	196633.6	196171.1	193900.2	193310.5	194524.2	193007.1
176249.8	4°	175723.7	175550.0	175266.1	174390.1	175469.2	173920.2	172753.0	174399.9	171155.1
153817.9	5°	153509.6	153122.9	152569.9	152310.5	153113.1	152122.1	149721.6	152127.0	146339.8
131755.5	6°	131917.0	130253.0	130172.2	130027.9	130108.6	127333.7	127500.1	129291.3	124475.5
107870.0	7°	109010.3	109316.2	108692.2	109693.0	108929.6	107050.2	106325.9	108212.6	104808.8
91181.2	8°	90545.0	90158.4	89681.2	91176.4	89852.5	88619.2	87775.0	89265.2	86737.4
74531.7	9°	74392.2	73724.1	73239.6	73163.8	73369.3	71054.4	71524.3	72652.3	71130.3
60608.0	10°	60630.1	59533.8	59800.5	59871.5	59646.4	58129.2	58143.9	58533.0	56702.6
37172.8	12.5°	37040.7	36502.4	36636.9	36710.3	37167.9	36634.5	35880.8	35337.6	35063.5
23437.7	15°	23281.0	22894.4	23684.8	24215.8	24108.1	23633.4	23278.6	22786.7	22390.3
15580.2	17.5°	15435.9	15942.4	15944.8	16429.4	16478.3	16003.6	15729.5	15286.6	15306.2
10133.2	20°	10096.4	10306.9	10744.9	11087.5	11285.7	10923.5	10595.6	10292.2	10165.0
6318.2	22.5°	6318.2	6685.3	6959.4	7404.7	7585.8	7321.5	7089.0	6841.9	6690.2
3944.6	25°	3878.5	4140.4	4367.9	4754.6	5001.7	4874.5	4661.6	4487.9	4407.1
2547.4	27.5°	2586.5	2696.6	2809.2	3075.9	3332.9	3261.9	3176.2	3071.0	3034.3
1796.1	30°	1823.0	1832.8	1952.7	2102.0	2273.3	2317.3	2278.2	2224.4	2182.8
1318.9	32.5°	1343.4	1382.6	1438.9	1531.8	1646.9	1752.1	1732.5	1708.0	1688.5
1008.2	35°	1037.5	1096.3	1142.8	1213.7	1274.9	1375.2	1392.4	1385.0	1370.3
829.5	37.5°	846.7	898.1	944.6	986.2	1037.5	1106.1	1159.9	1162.3	1147.7
685.2	40°	702.3	748.8	810.0	841.8	878.5	929.9	995.9	1000.8	995.9
579.9	42.5°	592.2	636.2	697.4	736.6	763.5	812.4	878.5	888.3	878.5
496.7	45°	509.0	535.9	599.5	646.0	672.9	704.7	775.7	785.5	783.0
428.2	47.5°	442.9	469.8	509.0	575.1	599.5	628.9	685.2	702.3	702.3
379.3	50°	389.1	416.0	450.3	509.0	545.7	570.2	616.7	641.1	641.1
330.3	52.5°	345.0	371.9	408.7	455.1	496.7	518.8	562.8	594.6	594.6
269.2	55°	288.7	335.2	362.2	403.8	460.0	479.6	513.9	555.5	555.5
234.9	57.5°	252.0	291.2	330.3	364.6	420.9	445.4	479.6	518.8	523.7
186.0	60°	212.9	249.6	296.1	325.5	379.3	411.1	447.8	484.5	494.3
141.9	62.5°	168.8	217.8	249.6	291.2	342.6	384.2	413.5	450.3	464.9
110.1	65°	124.8	178.6	215.3	259.4	308.3	352.4	376.8	416.0	425.8
78.3	67.5°	90.5	139.5	183.5	225.1	271.6	315.7	340.1	374.4	381.7
48.9	70°	71.0	102.8	151.7	188.4	237.4	274.1	301.0	323.0	330.3
31.8	72.5°	41.6	78.3	122.4	164.0	208.0	232.5	252.0	271.6	276.5
14.7	75°	26.9	61.2	100.3	137.0	168.8	190.9	208.0	225.1	227.6
7.3	77.5°	17.1	44.0	80.8	115.0	129.7	156.6	171.3	181.1	176.2
4.9	80°	9.8	34.3	71.0	93.0	105.2	122.4	137.0	149.3	137.0
4.9	82.5°	7.3	29.4	58.7	78.3	78.3	97.9	105.2	105.2	100.3
2.4	85°	4.9	24.5	46.5	73.4	58.7	73.4	68.5	68.5	68.5
2.4	87.5°	4.9	17.1	22.0	31.8	26.9	31.8	31.8	36.7	36.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
223171.6
216028.7
206010.6
189133.4
168438.9
145789.2
124098.7
103081.2
85009.8
69128.6
55885.3
35007.2
22534.7
15176.5
10187.0
6709.8
4387.5
3009.8
2187.6
1688.5
1360.5
1145.2
993.5
880.9
783.0
704.7
643.6
594.6
557.9
521.2
494.3
467.4
423.3
376.8
330.3
276.5
225.1
176.2
134.6
97.9
66.1
36.7
0.0

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