

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: P637255

Luminaire Tested: **IFLD-L-SA8A-830-U-33-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637255  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-830-U-33-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor  
Light Source: (128) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27069.8 lumens  
Efficiency: N/A  
Efficacy: 109.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

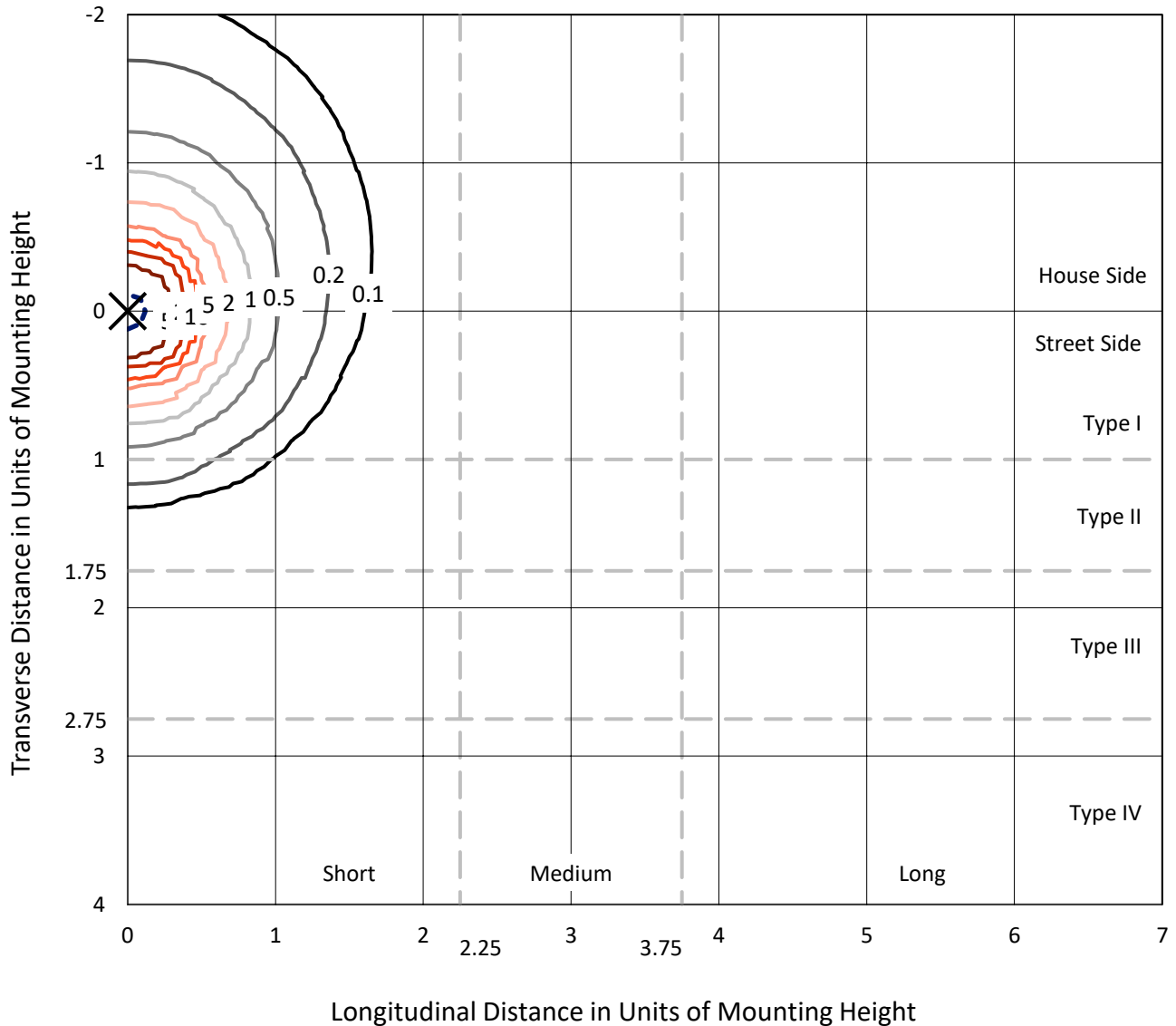
Input Watts (W): 247.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

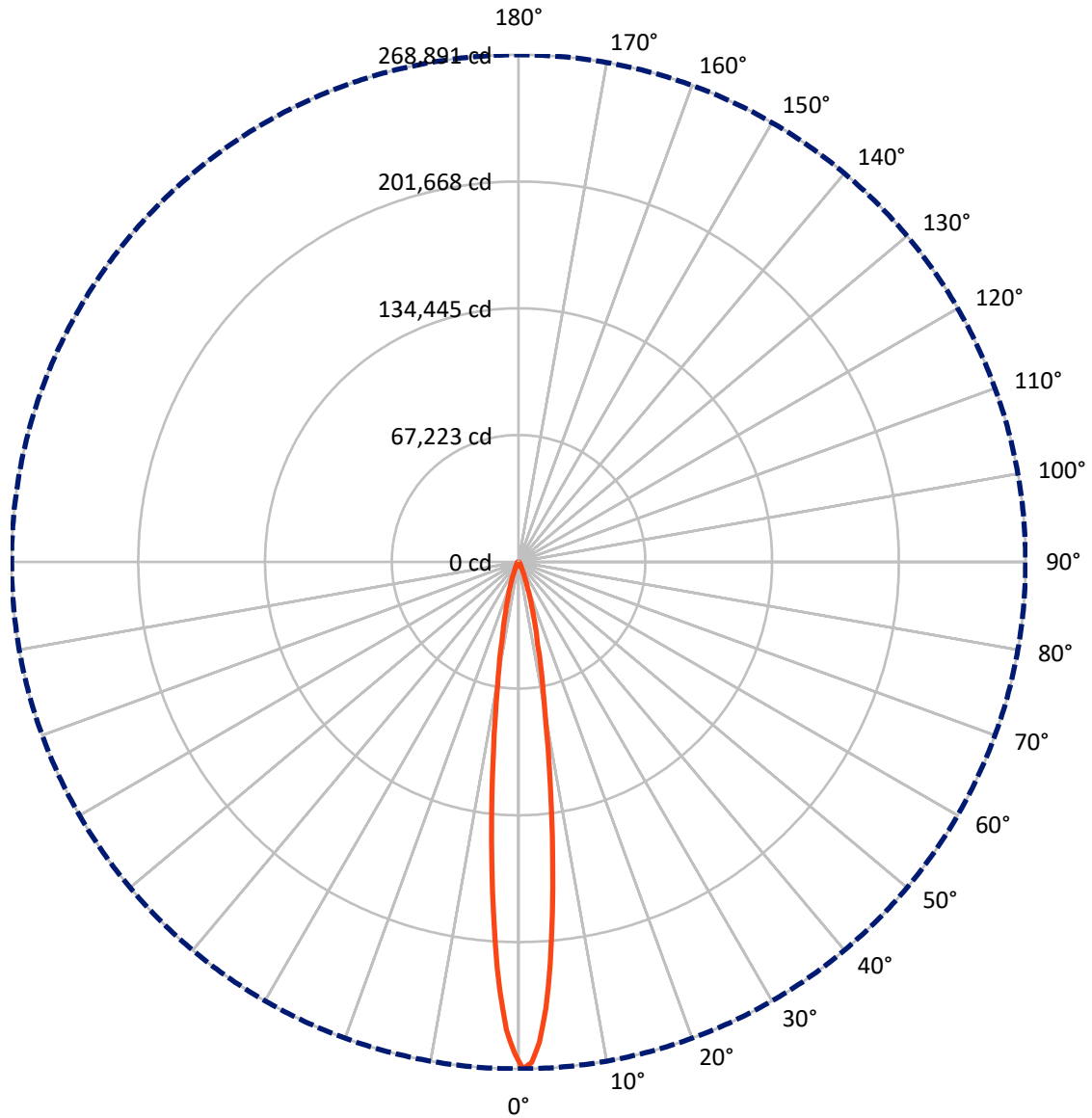
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 672.2 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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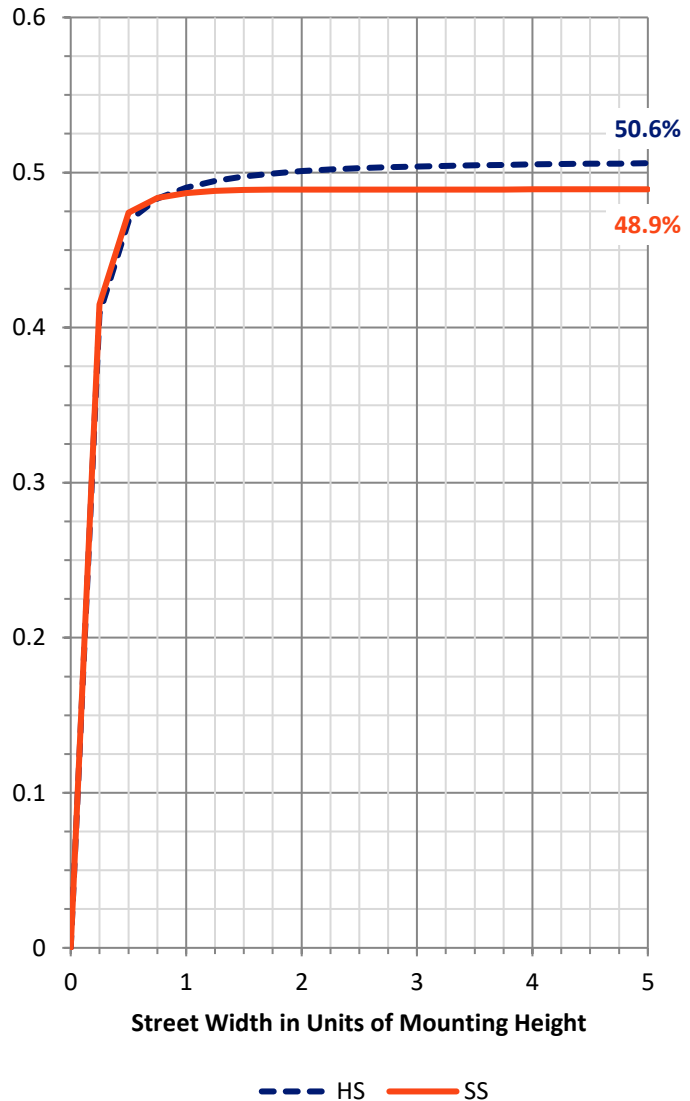
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13864.7	0.0	13864.7
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	13205.1	0.0	13205.1
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	27069.8	0.0	27069.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	13665.6	50.5
10°-20°	8748.7	32.3
20°-30°	2629.7	9.7
30°-40°	856.2	3.2
40°-50°	498.2	1.8
50°-60°	330.9	1.2
60°-70°	199.2	0.7
70°-80°	102.4	0.4
80°-90°	38.9	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°	27069.8	100.0
0°-180°	27069.8	100.0

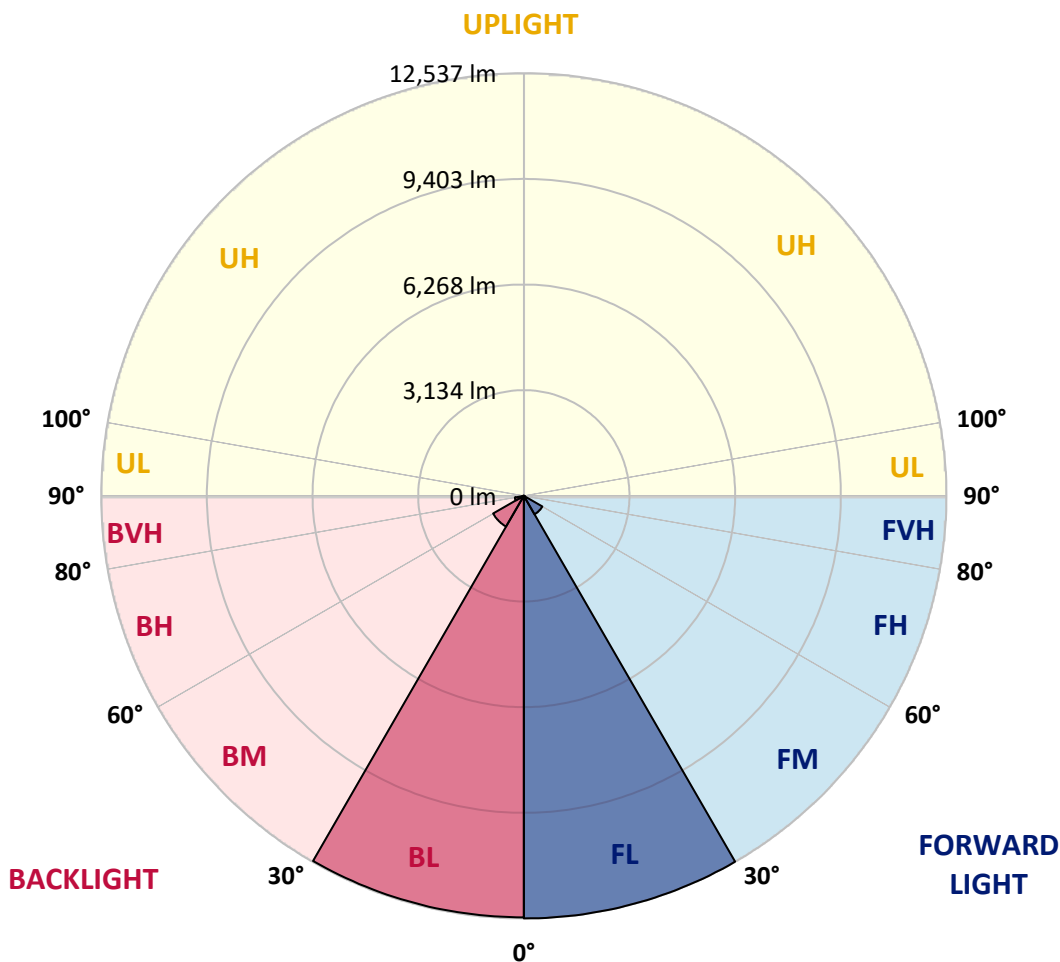


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	12536.9	46.3			
FM (30°-60°)	632.6	2.3			
FH (60°-80°)	29.8	0.1			G0/660
FVH (80°-90°)	5.9	0.0			G0/10
BL (0°-30°)	12507.2	46.2	B5		
BM (30°-60°)	1052.7	3.9	B2/2500		
BH (60°-80°)	271.8	1.0	B1/500		G0/660
BVH (80°-90°)	33.0	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°	268890.9	268890.9	268890.9	268890.9	268890.9	268890.9	268890.9	268890.9	268890.9	268890.9
1°	265671.3	264860.5	262767.2	264256.1	265565.2	265184.8	265158.3	265016.8	264819.2	266370.1
2°	255051.4	254526.6	251430.9	252707.5	254567.9	253211.6	254060.8	253314.8	253329.6	255181.1
3°	237149.1	237435.1	232496.7	234817.0	237402.7	234115.3	235135.4	237051.8	235044.0	234439.6
4°	213880.9	211398.4	208700.7	211059.3	211728.6	209815.1	211696.2	214043.1	211253.9	211377.8
5°	187316.4	185482.6	182289.5	183746.0	182086.1	182690.5	185509.1	186476.1	184530.2	182080.2
6°	160003.1	158699.9	154707.9	156807.1	156217.4	155875.4	159434.0	156485.7	157547.1	156064.1
7°	133090.7	130655.4	128694.7	130705.5	130835.2	129806.2	134426.3	133889.7	131958.5	131510.4
8°	110267.6	107838.2	106178.3	107676.1	108654.9	107039.2	109212.1	110639.1	109129.6	109265.2
9°	88936.5	88508.9	86200.4	88158.1	89222.4	87491.8	89897.6	90413.6	89001.3	89688.3
10°	73024.3	72526.0	70683.3	71476.4	73239.5	71175.7	73484.2	73652.3	72526.0	72847.4
12.5°	45127.2	44926.7	44876.6	44991.6	44968.0	45333.6	45923.2	45251.0	45162.6	44051.0
15°	29167.9	29465.6	29159.0	29748.7	29834.2	30179.1	29819.4	29276.9	28242.1	27729.1
17.5°	18203.0	18583.3	19108.1	19972.0	20835.9	20936.1	20458.5	19821.6	19320.4	18772.0
20°	10472.5	10658.2	10578.6	11613.5	13848.3	14455.7	13839.5	13170.2	12565.8	12011.5
22.5°	6507.0	6439.2	6563.0	6910.9	7639.1	9517.2	9013.1	8343.8	7904.5	7447.5
25°	3989.1	4062.8	4015.6	4207.3	4534.5	5330.6	5445.6	5156.6	4932.6	4696.7
27.5°	2568.0	2568.0	2588.6	2694.8	2918.8	2892.3	3505.6	3281.5	3160.6	3045.6
30°	1783.7	1789.6	1789.6	1851.6	1901.7	1813.2	1972.4	2261.4	2205.4	2116.9
32.5°	1323.8	1341.5	1356.2	1388.7	1347.4	1253.0	1291.4	1627.5	1595.0	1562.6
35°	1008.3	1023.1	1058.5	1076.1	1017.2	958.2	922.8	1197.0	1211.8	1202.9
37.5°	734.1	743.0	807.8	875.7	807.8	754.8	734.1	919.9	990.6	981.8
40°	563.1	566.1	577.9	654.5	654.5	613.3	619.1	687.0	810.8	810.8
42.5°	483.5	483.5	495.3	483.5	486.5	530.7	545.4	554.3	687.0	687.0
45°	418.7	418.7	424.6	395.1	365.6	457.0	468.8	471.7	577.9	592.6
47.5°	350.9	350.9	362.6	324.3	309.6	362.6	395.1	403.9	498.3	510.1
50°	259.5	262.4	297.8	265.3	274.2	280.1	342.0	347.9	421.6	448.1
52.5°	174.0	174.0	179.8	206.4	238.8	230.0	277.1	297.8	336.1	371.5
55°	141.5	141.5	138.6	132.7	176.9	191.6	203.4	247.7	274.2	318.4
57.5°	97.3	103.2	94.3	109.1	115.0	144.5	153.3	194.6	209.3	268.3
60°	11.8	14.7	20.6	79.6	76.7	97.3	115.0	153.3	171.0	206.4
62.5°	2.9	2.9	5.9	14.7	53.1	64.9	91.4	106.1	123.8	159.2
65°	0.0	0.0	2.9	5.9	11.8	35.4	47.2	61.9	88.4	112.0
67.5°	0.0	0.0	2.9	5.9	5.9	14.7	23.6	38.3	47.2	82.6
70°	0.0	0.0	2.9	5.9	5.9	11.8	14.7	17.7	32.4	44.2
72.5°	0.0	0.0	2.9	5.9	8.8	11.8	14.7	14.7	14.7	29.5
75°	0.0	0.0	2.9	5.9	8.8	11.8	14.7	14.7	11.8	11.8
77.5°	0.0	0.0	2.9	5.9	11.8	14.7	17.7	14.7	8.8	8.8
80°	0.0	0.0	2.9	8.8	14.7	20.6	23.6	17.7	8.8	5.9
82.5°	0.0	0.0	5.9	11.8	17.7	23.6	32.4	26.5	11.8	5.9
85°	0.0	0.0	2.9	8.8	17.7	23.6	47.2	32.4	14.7	2.9
87.5°	0.0	0.0	0.0	2.9	2.9	5.9	17.7	11.8	5.9	2.9
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°
268890.9	0°	268890.9	268890.9	268890.9	268890.9	268890.9	268890.9	268890.9	268890.9
264580.4	1°	266429.0	266614.8	266007.4	266947.9	266617.7	264683.6	264043.8	263286.1
254093.2	2°	253314.8	254261.3	254308.4	255352.1	255337.4	253081.9	252383.2	253671.6
235666.1	3°	234952.6	236055.3	235061.7	236916.2	236359.0	233622.9	232912.4	234374.8
212356.6	4°	211722.7	211513.4	211171.4	210115.9	211416.1	209549.8	208143.4	210127.7
185329.2	5°	184957.7	184491.9	183825.6	183513.1	184480.1	183286.0	180393.7	183291.9
158747.1	6°	158941.7	156936.8	156839.5	156665.5	156762.8	153419.4	153619.9	155778.1
129968.4	7°	131342.3	131710.9	130959.0	132164.9	131245.0	128980.7	128108.0	130381.2
109860.8	8°	109094.2	108628.4	108053.4	109854.9	108259.8	106773.9	105756.7	107552.2
89800.3	9°	89632.3	88827.4	88243.6	88152.2	88399.9	85610.7	86176.8	87536.0
73024.3	10°	73050.8	71730.0	72051.4	72136.9	71865.6	70037.6	70055.3	70524.1
44788.1	12.5°	44628.9	43980.3	44142.4	44230.9	44782.2	44139.5	43231.4	42576.9
28239.1	15°	28050.4	27584.6	28536.9	29176.7	29047.0	28475.0	28047.5	27454.9
18772.0	17.5°	18598.1	19208.4	19211.3	19795.1	19854.1	19282.1	18951.9	18418.2
12209.0	20°	12164.8	12418.4	12946.1	13358.9	13597.7	13161.4	12766.3	12400.7
7612.6	22.5°	7612.6	8054.8	8385.1	8921.7	9139.8	8821.4	8541.3	8243.5
4752.7	25°	4673.1	4988.6	5262.8	5728.6	6026.4	5873.1	5616.6	5407.2
3069.2	27.5°	3116.4	3249.1	3384.7	3706.1	4015.6	3930.1	3826.9	3700.2
2164.1	30°	2196.5	2208.3	2352.8	2532.6	2739.0	2792.1	2744.9	2680.0
1589.2	32.5°	1618.6	1665.8	1733.6	1845.7	1984.2	2111.0	2087.4	2057.9
1214.7	35°	1250.1	1320.9	1376.9	1462.4	1536.1	1657.0	1677.6	1668.8
999.5	37.5°	1020.1	1082.0	1138.1	1188.2	1250.1	1332.6	1397.5	1400.5
825.5	40°	846.2	902.2	975.9	1014.2	1058.5	1120.4	1200.0	1205.9
698.8	42.5°	713.5	766.6	840.3	887.4	919.9	978.8	1058.5	1070.2
598.5	45°	613.3	645.7	722.3	778.4	810.8	849.1	934.6	946.4
516.0	47.5°	533.6	566.1	613.3	692.9	722.3	757.7	825.5	846.2
457.0	50°	468.8	501.2	542.5	613.3	657.5	687.0	743.0	772.5
398.0	52.5°	415.7	448.1	492.4	548.4	598.5	625.0	678.1	716.4
324.3	55°	347.9	403.9	436.4	486.5	554.3	577.9	619.1	669.3
283.0	57.5°	303.7	350.9	398.0	439.3	507.1	536.6	577.9	625.0
224.1	60°	256.5	300.7	356.7	392.1	457.0	495.3	539.5	583.8
171.0	62.5°	203.4	262.4	300.7	350.9	412.8	462.9	498.3	542.5
132.7	65°	150.4	215.2	259.5	312.5	371.5	424.6	454.0	501.2
94.3	67.5°	109.1	168.1	221.1	271.2	327.3	380.3	409.8	451.1
59.0	70°	85.5	123.8	182.8	227.0	286.0	330.2	362.6	389.2
38.3	72.5°	50.1	94.3	147.4	197.5	250.6	280.1	303.7	327.3
17.7	75°	32.4	73.7	120.9	165.1	203.4	230.0	250.6	271.2
8.8	77.5°	20.6	53.1	97.3	138.6	156.3	188.7	206.4	218.2
5.9	80°	11.8	41.3	85.5	112.0	126.8	147.4	165.1	179.8
5.9	82.5°	8.8	35.4	70.8	94.3	94.3	117.9	126.8	126.8
2.9	85°	5.9	29.5	56.0	88.4	70.8	88.4	82.6	82.6
2.9	87.5°	5.9	20.6	26.5	38.3	32.4	38.3	38.3	44.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
268890.9  
260284.7  
248214.2  
227879.6  
202945.5  
175655.8  
149521.7  
124198.5  
102425.1  
83290.4  
67334.0  
42178.8  
27151.2  
18285.6  
12273.9  
8084.3  
5286.4  
3626.4  
2635.8  
2034.3  
1639.3  
1379.8  
1197.0  
1061.4  
943.5  
849.1  
775.4  
716.4  
672.2  
628.0  
595.6  
563.1  
510.1  
454.0  
398.0  
333.2  
271.2  
212.3  
162.2  
117.9  
79.6  
44.2  
0.0

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