

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: P637224

Luminaire Tested: **IFLD-L-SA7D-827-U-33-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637224  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-827-U-33-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor  
Light Source: (112) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35659.6 lumens  
Efficiency: N/A  
Efficacy: 84.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

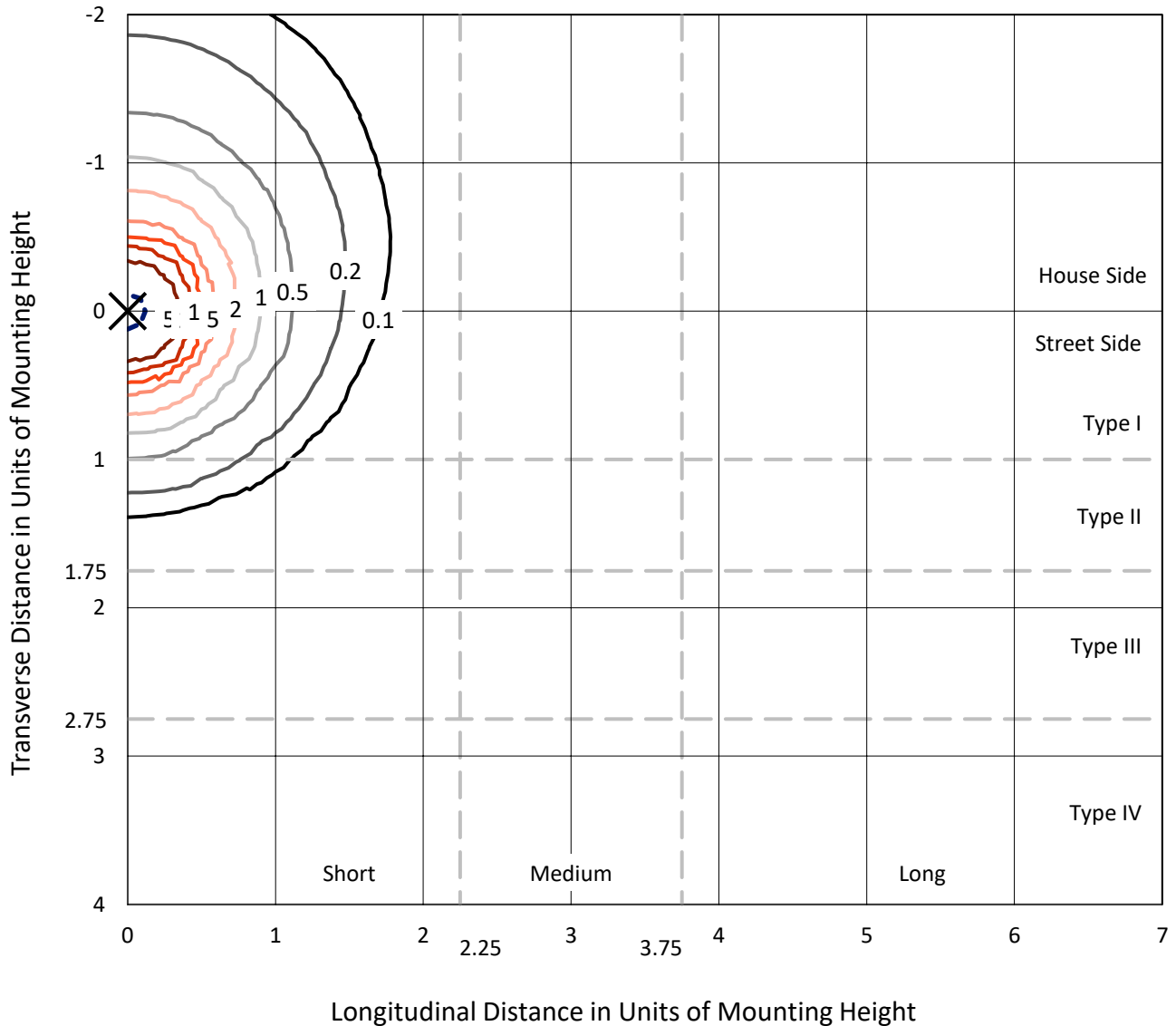
Input Watts (W): 422.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

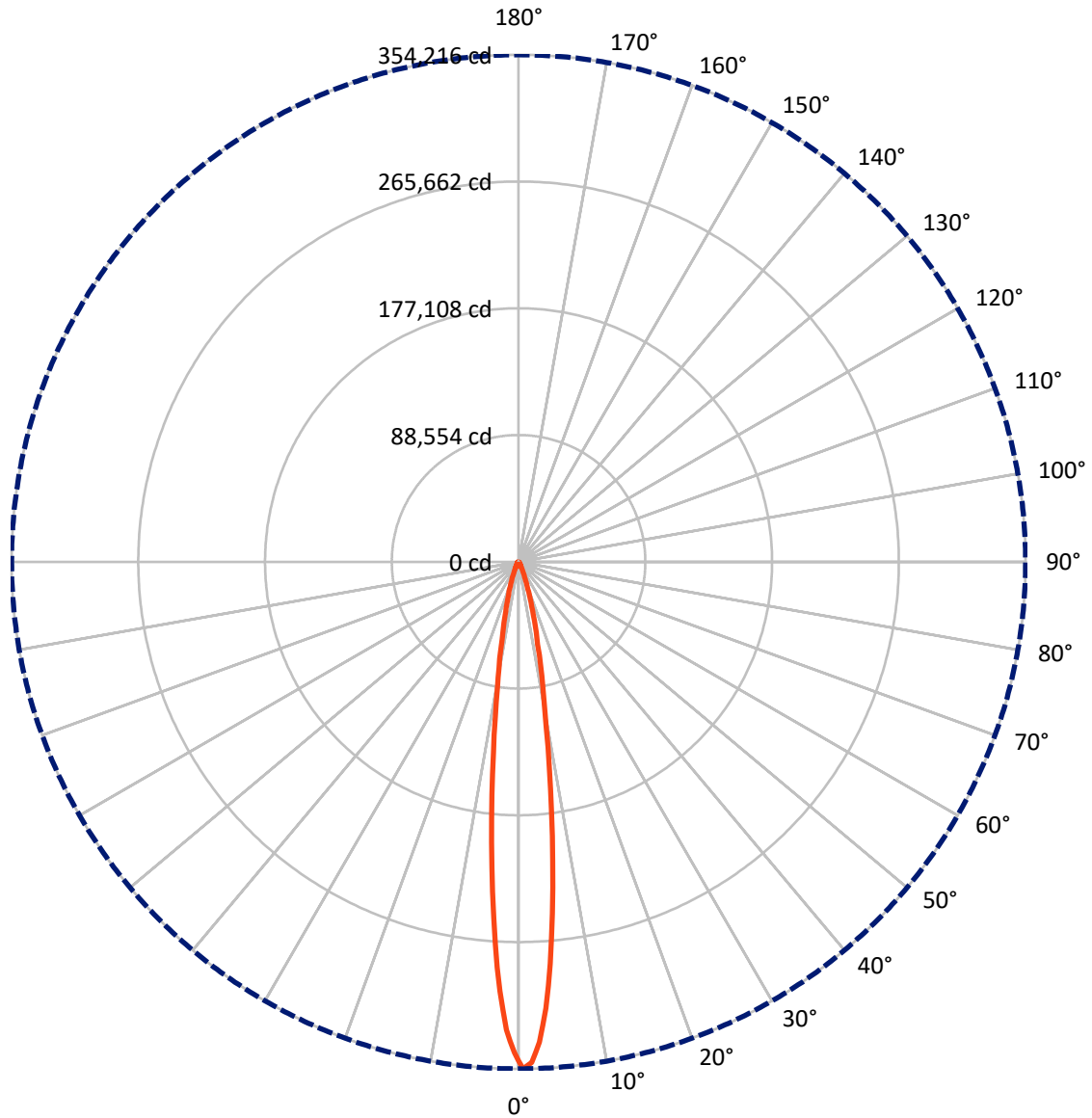
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 885.5 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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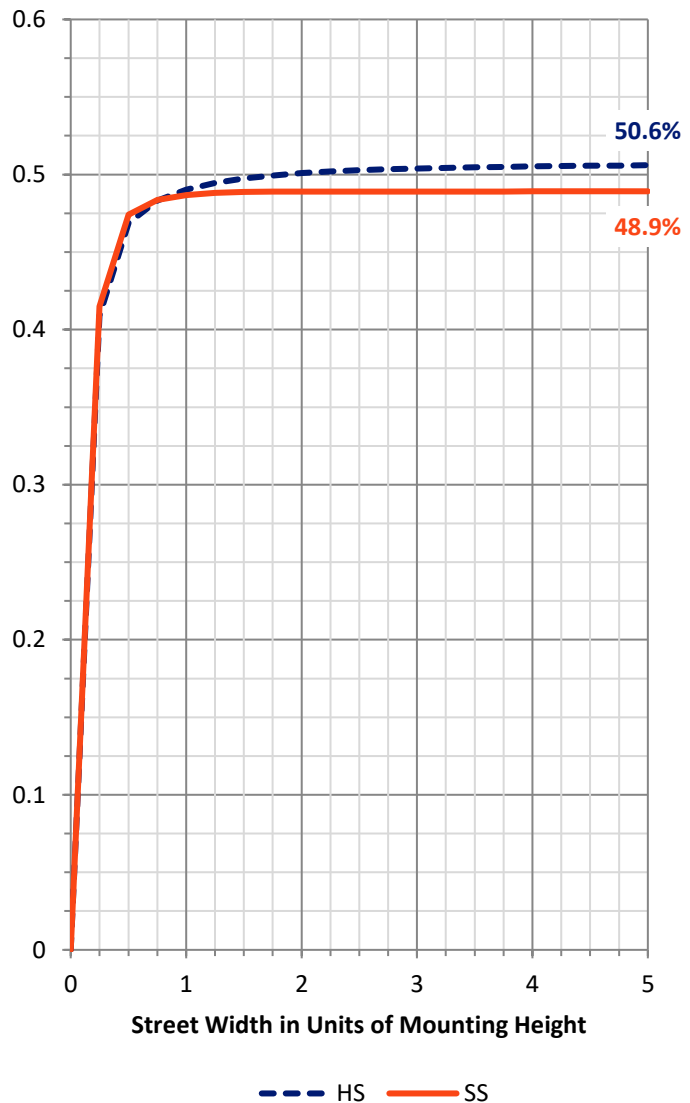
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18264.2	0.0	18264.2
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	17395.4	0.0	17395.4
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	35659.6	0.0	35659.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	18002.0	50.5
10°-20°	11524.8	32.3
20°-30°	3464.1	9.7
30°-40°	1127.9	3.2
40°-50°	656.3	1.8
50°-60°	435.9	1.2
60°-70°	262.4	0.7
70°-80°	134.9	0.4
80°-90°	51.2	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°	35659.6	100.0
0°-180°	35659.6	100.0

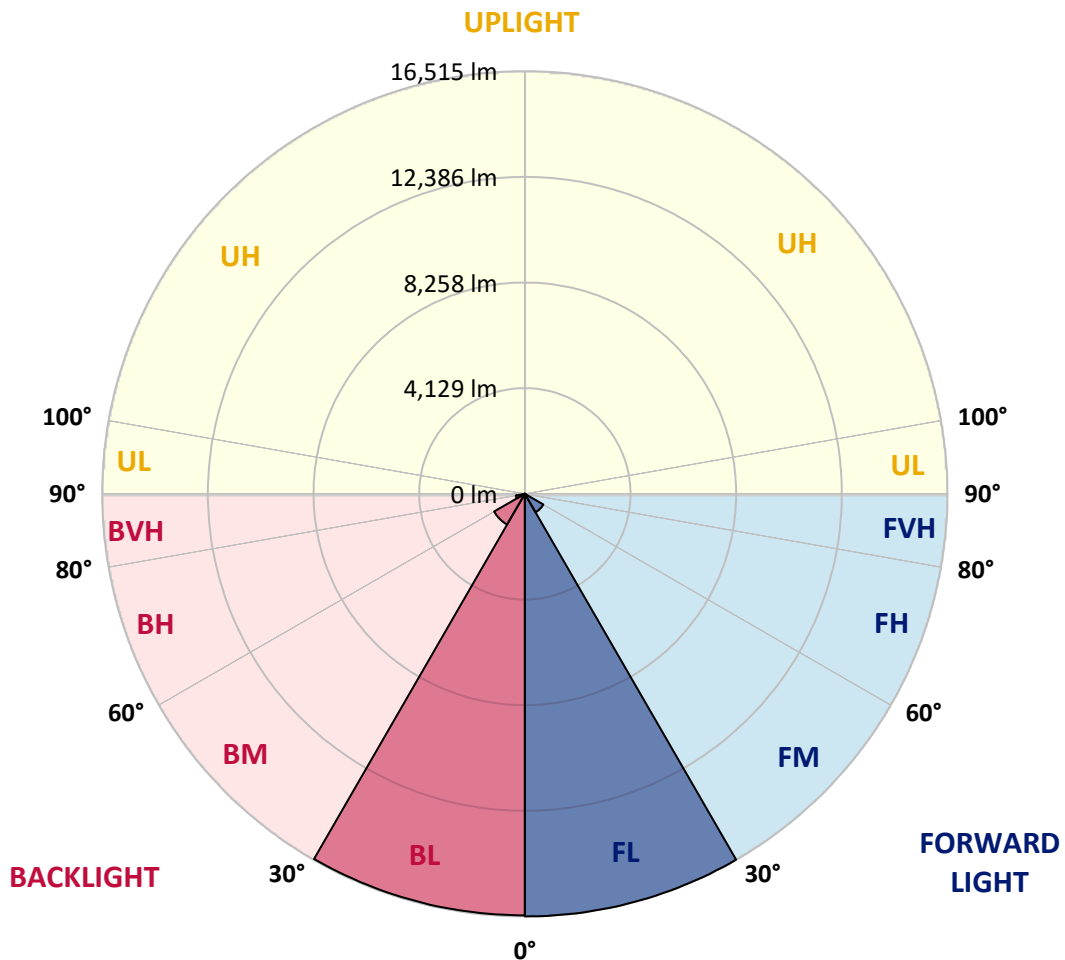


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	16515.1	46.3			
FM (30°-60°)	833.4	2.3			
FH (60°-80°)	39.2	0.1			G0/660
FVH (80°-90°)	7.7	0.0			G0/10
BL (0°-30°)	16475.9	46.2	B5		
BM (30°-60°)	1386.7	3.9	B2/2500		
BH (60°-80°)	358.0	1.0	B1/500		G0/660
BVH (80°-90°)	43.5	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°	354215.7	354215.7	354215.7	354215.7	354215.7	354215.7	354215.7	354215.7	354215.7	354215.7
1°	349974.5	348906.4	346148.8	348110.2	349834.7	349333.6	349298.7	349112.2	348852.0	350895.0
2°	335984.7	335293.3	331215.2	332897.0	335347.7	333561.1	334679.7	333697.0	333716.5	336155.6
3°	312401.6	312778.3	306272.8	309329.4	312735.6	308405.1	309748.9	312273.4	309628.5	308832.3
4°	281749.9	278479.6	274925.8	278033.0	278914.6	276394.0	278871.9	281963.5	278289.3	278452.4
5°	246755.9	244340.1	240133.9	242052.5	239865.9	240662.1	244375.1	245649.0	243085.6	239858.1
6°	210775.4	209058.8	203800.0	206565.3	205788.5	205338.0	210025.9	206142.0	207540.2	205586.6
7°	175323.2	172115.1	169532.3	172181.1	172352.0	170996.5	177082.6	176375.7	173831.8	173241.4
8°	145257.9	142057.6	139870.9	141844.0	143133.4	141005.0	143867.5	145747.3	143758.7	143937.4
9°	117157.9	116594.7	113553.6	116132.5	117534.6	115254.8	118424.0	119103.7	117243.3	118148.3
10°	96196.5	95540.1	93112.7	94157.4	96480.0	93761.3	96802.4	97023.7	95540.1	95963.4
12.5°	59447.0	59182.9	59116.9	59268.3	59237.3	59718.9	60495.6	59610.1	59493.6	58029.4
15°	38423.4	38815.7	38411.8	39188.6	39301.2	39755.6	39281.8	38567.1	37203.9	36528.1
17.5°	23979.2	24480.2	25171.6	26309.5	27447.5	27579.6	26950.4	26111.5	25451.2	24728.8
20°	13795.6	14040.3	13935.4	15298.7	18242.7	19042.8	18231.0	17349.4	16553.2	15823.0
22.5°	8571.8	8482.4	8645.6	9103.9	10063.2	12537.2	11873.1	10991.4	10412.7	9810.7
25°	5254.9	5352.0	5289.9	5542.3	5973.4	7022.1	7173.6	6792.9	6497.8	6187.1
27.5°	3382.9	3382.9	3410.1	3549.9	3845.1	3810.1	4618.0	4322.8	4163.5	4012.1
30°	2349.8	2357.5	2357.5	2439.1	2505.1	2388.6	2598.3	2979.0	2905.2	2788.6
32.5°	1743.9	1767.2	1786.6	1829.3	1774.9	1650.7	1701.1	2143.9	2101.2	2058.5
35°	1328.3	1347.7	1394.3	1417.6	1339.9	1262.3	1215.7	1576.9	1596.3	1584.6
37.5°	967.1	978.7	1064.2	1153.5	1064.2	994.3	967.1	1211.8	1305.0	1293.3
40°	741.8	745.7	761.2	862.2	862.2	807.9	815.6	904.9	1068.1	1068.1
42.5°	637.0	637.0	652.5	637.0	640.8	699.1	718.5	730.2	904.9	904.9
45°	551.5	551.5	559.3	520.4	481.6	602.0	617.5	621.4	761.2	780.7
47.5°	462.2	462.2	477.7	427.2	407.8	477.7	520.4	532.1	656.4	671.9
50°	341.8	345.7	392.3	349.6	361.2	369.0	450.5	458.3	555.4	590.4
52.5°	229.2	229.2	236.9	271.9	314.6	302.9	365.1	392.3	442.8	489.4
55°	186.4	186.4	182.5	174.8	233.0	252.5	268.0	326.2	361.2	419.5
57.5°	128.2	135.9	124.3	143.7	151.5	190.3	202.0	256.3	275.8	353.4
60°	15.5	19.4	27.2	104.9	101.0	128.2	151.5	202.0	225.3	271.9
62.5°	3.9	3.9	7.8	19.4	69.9	85.4	120.4	139.8	163.1	209.7
65°	0.0	0.0	3.9	7.8	15.5	46.6	62.1	81.6	116.5	147.6
67.5°	0.0	0.0	3.9	7.8	7.8	19.4	31.1	50.5	62.1	108.7
70°	0.0	0.0	3.9	7.8	7.8	15.5	19.4	23.3	42.7	58.3
72.5°	0.0	0.0	3.9	7.8	11.7	15.5	19.4	19.4	19.4	38.8
75°	0.0	0.0	3.9	7.8	11.7	15.5	19.4	19.4	15.5	15.5
77.5°	0.0	0.0	3.9	7.8	15.5	19.4	23.3	19.4	11.7	11.7
80°	0.0	0.0	3.9	11.7	19.4	27.2	31.1	23.3	11.7	7.8
82.5°	0.0	0.0	7.8	15.5	23.3	31.1	42.7	35.0	15.5	7.8
85°	0.0	0.0	3.9	11.7	23.3	31.1	62.1	42.7	19.4	3.9
87.5°	0.0	0.0	0.0	3.9	3.9	7.8	23.3	15.5	7.8	3.9
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°
354215.7	0°	354215.7	354215.7	354215.7	354215.7	354215.7	354215.7	354215.7	354215.7
348537.4	1°	350972.6	351217.3	350417.2	351656.2	351221.2	348673.4	347830.6	346832.4
334722.4	2°	333697.0	334943.8	335005.9	336380.8	336361.4	333390.2	332469.7	334167.0
310448.0	3°	309508.1	310960.7	309651.8	312094.8	311360.7	307756.5	306820.4	308746.9
279741.9	4°	278906.8	278631.1	278180.6	276790.1	278502.9	276044.4	274191.8	276805.7
244138.2	5°	243648.8	243035.1	242157.4	241745.7	243019.6	241446.6	237636.5	241454.4
209120.9	6°	209377.2	206736.2	206608.0	206378.9	206507.0	202102.7	202366.8	205209.8
171210.1	7°	173020.0	173505.5	172515.1	174103.6	172891.9	169909.0	168759.4	171753.9
144721.9	8°	143712.1	143098.5	142341.1	144714.2	142613.0	140655.5	139315.5	141680.8
118295.9	9°	118074.5	117014.2	116245.2	116124.8	116451.0	112776.8	113522.6	115313.0
96196.5	10°	96231.4	94491.4	94914.8	95027.4	94670.1	92262.1	92285.4	92902.9
59000.3	12.5°	58790.6	57936.2	58149.8	58266.3	58992.6	58145.9	56949.6	56087.4
37200.0	15°	36951.4	36337.8	37592.3	38435.1	38264.2	37510.7	36947.6	36166.9
24728.8	17.5°	24499.7	25303.6	25307.5	26076.5	26154.2	25400.7	24965.7	24262.7
16083.2	20°	16025.0	16359.0	17054.2	17598.0	17912.6	17337.7	16817.3	16335.7
10028.2	22.5°	10028.2	10610.8	11045.8	11752.7	12040.1	11620.6	11251.7	10859.4
6260.8	25°	6156.0	6571.6	6932.8	7546.4	7938.7	7736.7	7398.8	7123.1
4043.1	27.5°	4105.3	4280.1	4458.7	4882.1	5289.9	5177.2	5041.3	4874.3
2850.8	30°	2893.5	2909.0	3099.4	3336.3	3608.1	3678.1	3615.9	3530.5
2093.4	32.5°	2132.3	2194.4	2283.7	2431.3	2613.9	2780.9	2749.8	2711.0
1600.2	35°	1646.8	1740.0	1813.8	1926.4	2023.5	2182.8	2209.9	2198.3
1316.6	37.5°	1343.8	1425.4	1499.2	1565.2	1646.8	1755.5	1841.0	1844.9
1087.5	40°	1114.7	1188.5	1285.6	1336.1	1394.3	1475.9	1580.7	1588.5
920.5	42.5°	939.9	1009.8	1106.9	1169.1	1211.8	1289.5	1394.3	1409.9
788.4	45°	807.9	850.6	951.6	1025.3	1068.1	1118.6	1231.2	1246.7
679.7	47.5°	703.0	745.7	807.9	912.7	951.6	998.2	1087.5	1114.7
602.0	50°	617.5	660.3	714.6	807.9	866.1	904.9	978.7	1017.6
524.3	52.5°	547.6	590.4	648.6	722.4	788.4	823.4	893.3	943.8
427.2	55°	458.3	532.1	574.8	640.8	730.2	761.2	815.6	881.6
372.9	57.5°	400.0	462.2	524.3	578.7	668.0	706.9	761.2	823.4
295.2	60°	337.9	396.2	470.0	516.6	602.0	652.5	710.8	769.0
225.3	62.5°	268.0	345.7	396.2	462.2	543.7	609.8	656.4	714.6
174.8	65°	198.1	283.5	341.8	411.7	489.4	559.3	598.1	660.3
124.3	67.5°	143.7	221.4	291.3	357.3	431.1	501.0	539.9	594.2
77.7	70°	112.6	163.1	240.8	299.1	376.7	435.0	477.7	512.7
50.5	72.5°	66.0	124.3	194.2	260.2	330.1	369.0	400.0	431.1
23.3	75°	42.7	97.1	159.2	217.5	268.0	302.9	330.1	357.3
11.7	77.5°	27.2	69.9	128.2	182.5	205.8	248.6	271.9	287.4
7.8	80°	15.5	54.4	112.6	147.6	167.0	194.2	217.5	236.9
7.8	82.5°	11.7	46.6	93.2	124.3	124.3	155.4	167.0	167.0
3.9	85°	7.8	38.8	73.8	116.5	93.2	116.5	108.7	108.7
3.9	87.5°	7.8	27.2	35.0	50.5	42.7	50.5	50.5	58.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
354215.7  
342878.6  
326977.9  
300190.6  
267344.5  
231395.1  
196968.2  
163609.3  
134926.7  
109720.2  
88700.5  
55563.1  
35766.8  
24088.0  
16168.7  
10649.7  
6963.8  
4777.2  
3472.2  
2679.9  
2159.4  
1817.7  
1576.9  
1398.2  
1242.8  
1118.6  
1021.5  
943.8  
885.5  
827.3  
784.5  
741.8  
671.9  
598.1  
524.3  
438.9  
357.3  
279.6  
213.6  
155.4  
104.9  
58.3  
0.0

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