

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: P637107

Luminaire Tested: **IFLD-L-SA7C-735-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637107
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-735-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43482.2 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

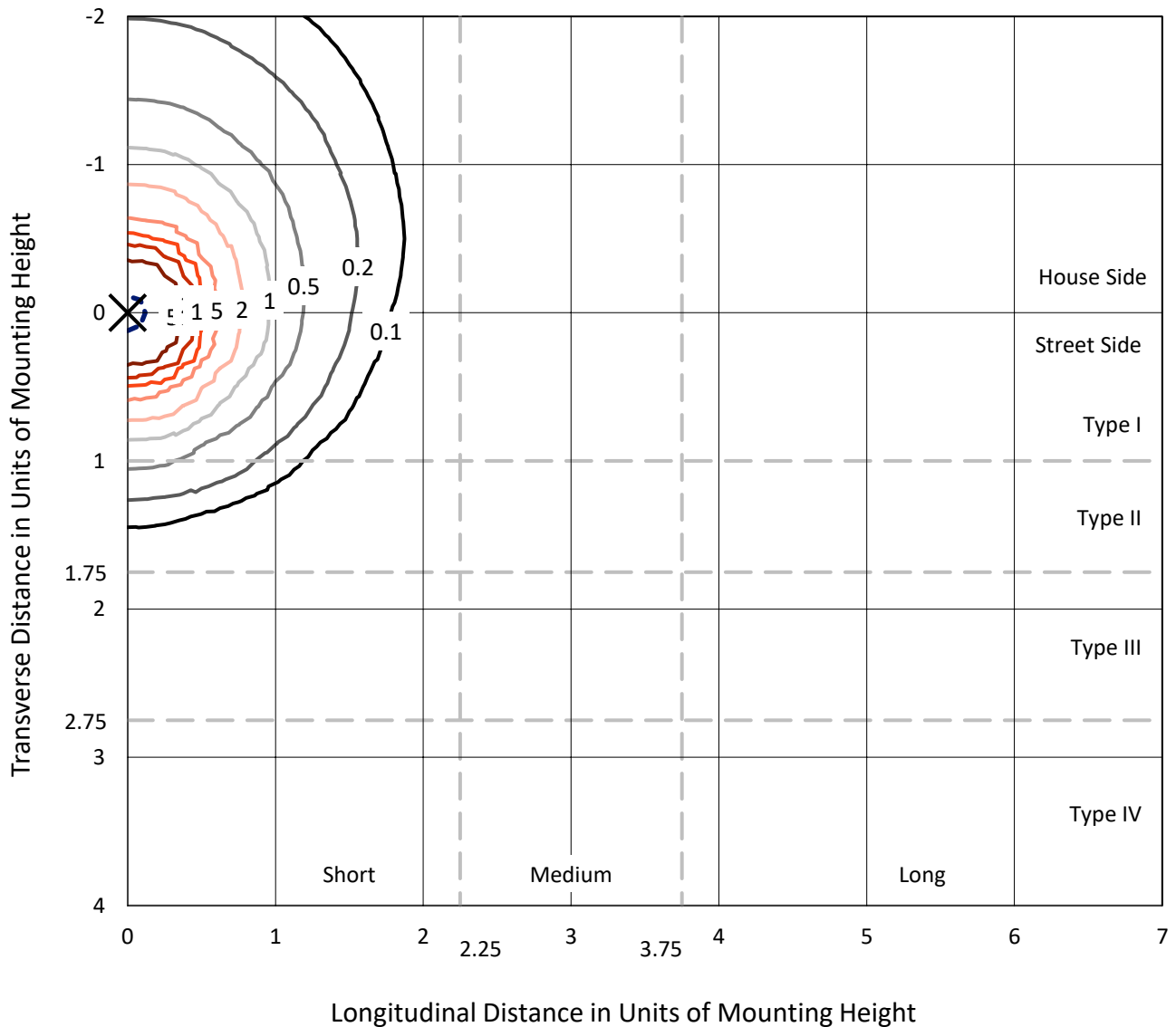
Input Watts (W): 369
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

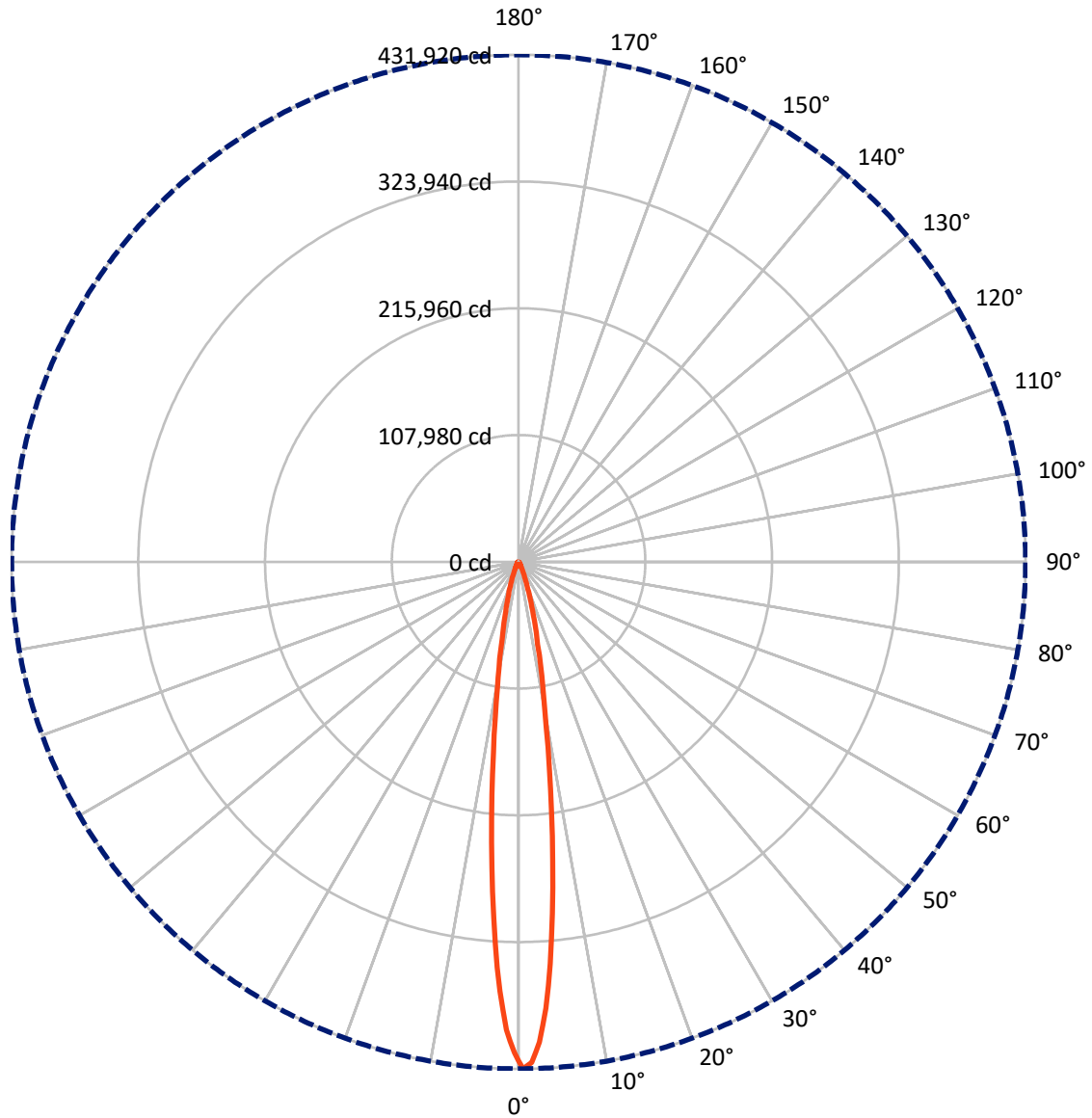
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1079.8 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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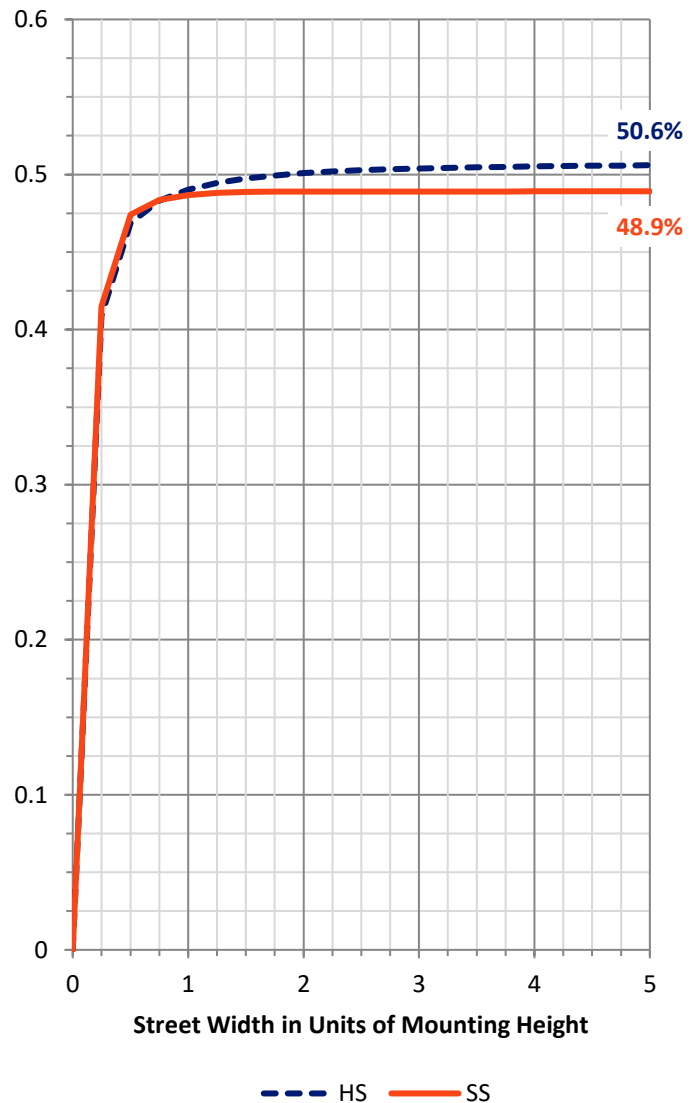
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22270.8	0.0	22270.8
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	21211.4	0.0	21211.4
	% Fixture	48.8	0.0	48.8
Total	Lumens	43482.2	0.0	43482.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21951.1	50.5
10°-20°	14053.0	32.3
20°-30°	4224.1	9.7
30°-40°	1375.4	3.2
40°-50°	800.2	1.8
50°-60°	531.5	1.2
60°-70°	319.9	0.7
70°-80°	164.5	0.4
80°-90°	62.5	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°	43482.2	100.0
0°-180°	43482.2	100.0

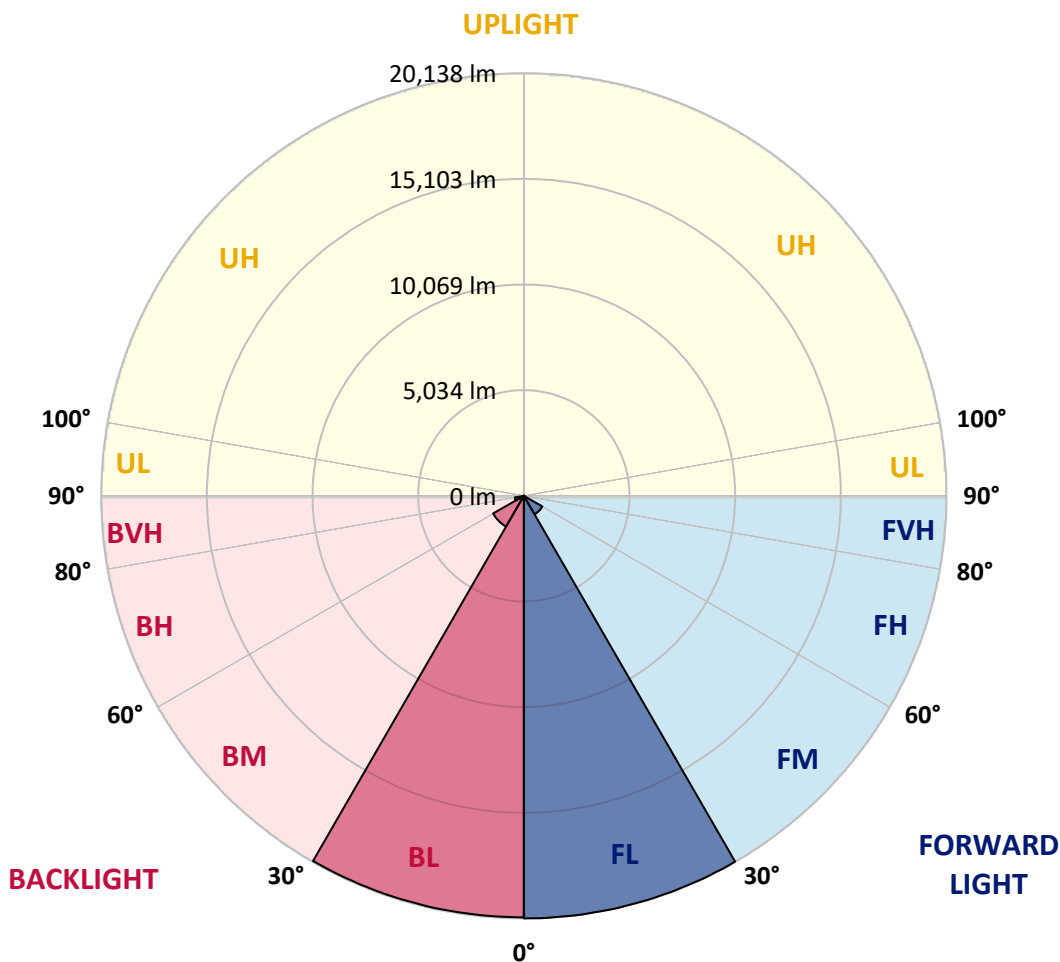


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	20138.0	46.3			
FM (30°-60°)	1016.2	2.3			
FH (60°-80°)	47.8	0.1			G0/660
FVH (80°-90°)	9.4	0.0			G0/10
BL (0°-30°)	20090.3	46.2	B5		
BM (30°-60°)	1690.9	3.9	B2/2500		
BH (60°-80°)	436.6	1.0	B1/500		G0/660
BVH (80°-90°)	53.1	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°	431919.7	431919.7	431919.7	431919.7	431919.7	431919.7	431919.7	431919.7	431919.7	431919.7
1°	426748.1	425445.7	422083.2	424474.8	426577.6	425966.6	425924.0	425696.7	425379.4	427870.5
2°	409689.3	408846.3	403873.6	405924.3	408912.6	406734.1	408098.1	406899.9	406923.6	409897.7
3°	380932.9	381392.3	373459.6	377186.8	381340.2	376059.6	377698.3	380776.6	377551.4	376580.6
4°	343557.1	339569.4	335236.1	339024.8	340099.9	337026.3	340047.8	343817.6	339337.4	339536.3
5°	300886.5	297940.8	292811.8	295151.4	292485.0	293455.9	297983.4	299536.8	296411.1	292475.6
6°	257013.1	254919.8	248507.4	251879.3	250932.2	250382.8	256099.0	251363.1	253068.1	250685.9
7°	213783.7	209871.8	206722.4	209952.3	210160.7	208507.9	215929.1	215067.1	211965.1	211245.2
8°	177123.0	173220.6	170554.3	172960.2	174532.5	171937.2	175427.6	177719.7	175295.0	175512.8
9°	142858.7	142172.0	138463.8	141608.4	143318.1	140538.1	144402.6	145231.4	142962.9	144066.4
10°	117299.0	116498.6	113538.7	114812.7	117644.7	114329.6	118037.8	118307.8	116498.6	117014.9
12.5°	72487.8	72165.8	72085.3	72270.0	72232.1	72819.3	73766.5	72686.7	72544.7	70759.2
15°	46852.4	47330.7	46838.1	47785.3	47922.7	48476.8	47899.0	47027.6	45365.3	44541.2
17.5°	29239.5	29850.4	30693.4	32081.1	33468.7	33629.7	32862.5	31839.5	31034.4	30153.5
20°	16822.0	17120.3	16992.4	18654.7	22244.6	23220.2	22230.4	21155.3	20184.4	19294.1
22.5°	10452.2	10343.2	10542.1	11101.0	12270.7	15287.5	14477.7	13402.6	12697.0	11962.9
25°	6407.7	6526.1	6450.3	6758.1	7283.8	8562.5	8747.2	8283.1	7923.2	7544.3
27.5°	4125.0	4125.0	4158.1	4328.6	4688.6	4645.9	5631.0	5271.1	5076.9	4892.2
30°	2865.2	2874.7	2874.7	2974.2	3054.7	2912.6	3168.3	3632.4	3542.5	3400.4
32.5°	2126.4	2154.8	2178.5	2230.6	2164.3	2012.8	2074.3	2614.2	2562.1	2510.0
35°	1619.7	1643.4	1700.2	1728.6	1633.9	1539.2	1482.3	1922.8	1946.5	1932.3
37.5°	1179.2	1193.4	1297.6	1406.6	1297.6	1212.4	1179.2	1477.6	1591.3	1577.1
40°	904.6	909.3	928.2	1051.4	1051.4	985.1	994.5	1103.5	1302.4	1302.4
42.5°	776.7	776.7	795.6	776.7	781.4	852.5	876.1	890.4	1103.5	1103.5
45°	672.5	672.5	682.0	634.6	587.3	734.1	753.0	757.7	928.2	951.9
47.5°	563.6	563.6	582.5	521.0	497.3	582.5	634.6	648.8	800.4	819.3
50°	416.8	421.5	478.3	426.2	440.4	449.9	549.4	558.8	677.2	719.9
52.5°	279.4	279.4	288.9	331.5	383.6	369.4	445.2	478.3	539.9	596.7
55°	227.3	227.3	222.6	213.1	284.2	307.8	326.8	397.8	440.4	511.5
57.5°	156.3	165.8	151.5	175.2	184.7	232.1	246.3	312.6	336.2	431.0
60°	18.9	23.7	33.2	127.9	123.1	156.3	184.7	246.3	274.7	331.5
62.5°	4.7	4.7	9.5	23.7	85.2	104.2	146.8	170.5	198.9	255.7
65°	0.0	0.0	4.7	9.5	18.9	56.8	75.8	99.5	142.1	180.0
67.5°	0.0	0.0	4.7	9.5	9.5	23.7	37.9	61.6	75.8	132.6
70°	0.0	0.0	4.7	9.5	9.5	18.9	23.7	28.4	52.1	71.0
72.5°	0.0	0.0	4.7	9.5	14.2	18.9	23.7	23.7	23.7	47.4
75°	0.0	0.0	4.7	9.5	14.2	18.9	23.7	23.7	18.9	18.9
77.5°	0.0	0.0	4.7	9.5	18.9	23.7	28.4	23.7	14.2	14.2
80°	0.0	0.0	4.7	14.2	23.7	33.2	37.9	28.4	14.2	9.5
82.5°	0.0	0.0	9.5	18.9	28.4	37.9	52.1	42.6	18.9	9.5
85°	0.0	0.0	4.7	14.2	28.4	37.9	75.8	52.1	23.7	4.7
87.5°	0.0	0.0	0.0	4.7	4.7	9.5	28.4	18.9	9.5	4.7
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°
431919.7	0°	431919.7	431919.7	431919.7	431919.7	431919.7	431919.7	431919.7	431919.7
424995.8	1°	427965.2	428263.6	427288.0	428798.7	428268.3	425161.5	424133.8	422916.7
408150.2	2°	406899.9	408420.1	408495.9	410172.4	410148.7	406525.7	405403.3	407472.9
378550.7	3°	377404.6	379175.9	377579.9	380558.7	379663.7	375268.7	374127.4	376476.4
341108.6	4°	340090.4	339754.1	339204.8	337509.3	339597.9	336600.0	334341.0	337528.3
297694.5	5°	297097.8	296349.5	295279.2	294777.2	296330.6	294412.5	289766.6	294422.0
254995.6	6°	255308.1	252087.7	251931.4	251652.0	251808.3	246437.8	246759.8	250226.5
208768.4	7°	210975.3	211567.3	210359.6	212296.6	210819.0	207181.8	205780.0	209431.4
176469.5	8°	175238.1	174489.8	173566.3	176460.0	173897.9	171511.0	169877.1	172761.2
144246.3	9°	143976.4	142683.5	141745.8	141599.0	141996.8	137516.6	138425.9	140609.2
117299.0	10°	117341.6	115219.9	115736.2	115873.5	115437.8	112501.5	112529.9	113283.0
71943.2	12.5°	71687.5	70645.6	70906.0	71048.1	71933.7	70901.3	69442.6	68391.3
45360.5	15°	45057.4	44309.2	45838.9	46866.6	46658.2	45739.4	45052.7	44100.8
30153.5	17.5°	29874.1	30854.5	30859.2	31796.9	31891.6	30972.8	30442.4	29585.2
19611.4	20°	19540.4	19947.7	20795.4	21458.4	21842.0	21141.1	20506.5	19919.2
12228.1	22.5°	12228.1	12938.5	13468.9	14330.9	14681.3	14169.8	13719.9	13241.6
7634.3	25°	7506.4	8013.2	8453.6	9201.9	9680.2	9433.9	9021.9	8685.7
4930.1	27.5°	5005.9	5219.0	5436.8	5953.0	6450.3	6313.0	6147.2	5943.6
3476.2	30°	3528.3	3547.2	3779.3	4068.1	4399.7	4484.9	4409.1	4304.9
2552.7	32.5°	2600.0	2675.8	2784.7	2964.7	3187.3	3390.9	3353.0	3305.7
1951.2	35°	2008.0	2121.7	2211.7	2349.0	2467.4	2661.6	2694.7	2680.5
1605.5	37.5°	1638.6	1738.1	1828.1	1908.6	2008.0	2140.6	2244.8	2249.6
1326.1	40°	1359.2	1449.2	1567.6	1629.2	1700.2	1799.6	1927.5	1937.0
1122.4	42.5°	1146.1	1231.3	1349.7	1425.5	1477.6	1572.3	1700.2	1719.1
961.4	45°	985.1	1037.2	1160.3	1250.3	1302.4	1363.9	1501.3	1520.2
828.8	47.5°	857.2	909.3	985.1	1112.9	1160.3	1217.1	1326.1	1359.2
734.1	50°	753.0	805.1	871.4	985.1	1056.1	1103.5	1193.4	1240.8
639.3	52.5°	667.8	719.9	790.9	880.9	961.4	1004.0	1089.3	1150.8
521.0	55°	558.8	648.8	700.9	781.4	890.4	928.2	994.5	1075.1
454.6	57.5°	487.8	563.6	639.3	705.7	814.6	861.9	928.2	1004.0
359.9	60°	412.0	483.1	573.0	629.9	734.1	795.6	866.7	937.7
274.7	62.5°	326.8	421.5	483.1	563.6	663.0	743.5	800.4	871.4
213.1	65°	241.5	345.7	416.8	502.0	596.7	682.0	729.3	805.1
151.5	67.5°	175.2	269.9	355.2	435.7	525.7	610.9	658.3	724.6
94.7	70°	137.3	198.9	293.6	364.7	459.4	530.4	582.5	625.1
61.6	72.5°	80.5	151.5	236.8	317.3	402.6	449.9	487.8	525.7
28.4	75°	52.1	118.4	194.2	265.2	326.8	369.4	402.6	435.7
14.2	77.5°	33.2	85.2	156.3	222.6	251.0	303.1	331.5	350.5
9.5	80°	18.9	66.3	137.3	180.0	203.6	236.8	265.2	288.9
9.5	82.5°	14.2	56.8	113.7	151.5	151.5	189.4	203.6	203.6
4.7	85°	9.5	47.4	90.0	142.1	113.7	142.1	132.6	132.6
4.7	87.5°	9.5	33.2	42.6	61.6	52.1	61.6	61.6	71.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
431919.7
418095.6
398706.7
366043.2
325991.6
282156.0
240176.9
199500.2
164525.5
133789.4
108158.7
67751.9
43613.0
29372.1
19715.6
12985.9
8491.5
5825.2
4233.9
3267.8
2633.2
2216.4
1922.8
1704.9
1515.5
1363.9
1245.5
1150.8
1079.8
1008.7
956.7
904.6
819.3
729.3
639.3
535.2
435.7
341.0
260.5
189.4
127.9
71.0
0.0

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