

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: P637111

Luminaire Tested: **IFLD-L-SA8B-735-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637111
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-735-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39919.6 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

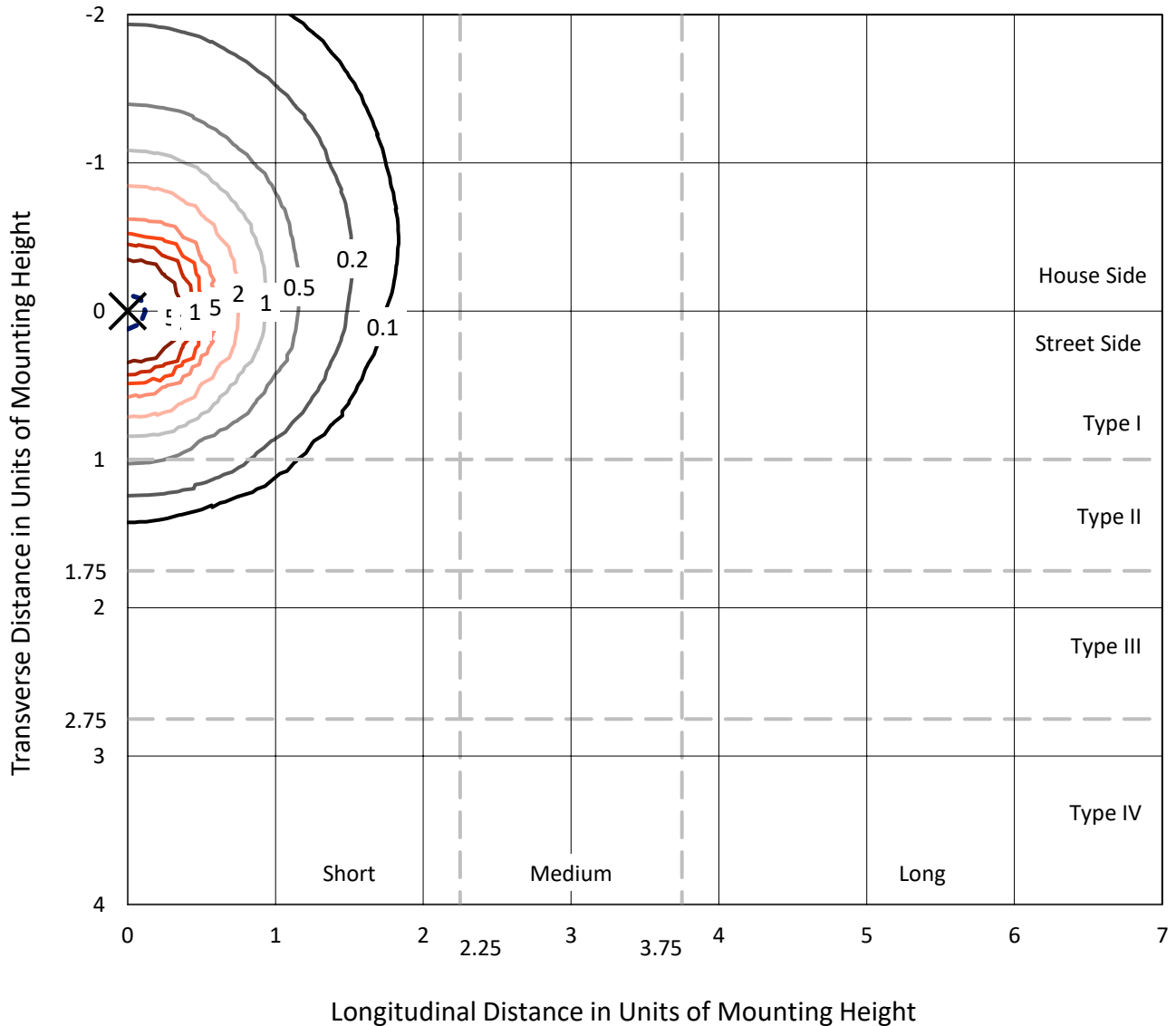
Input Watts (W): 320
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

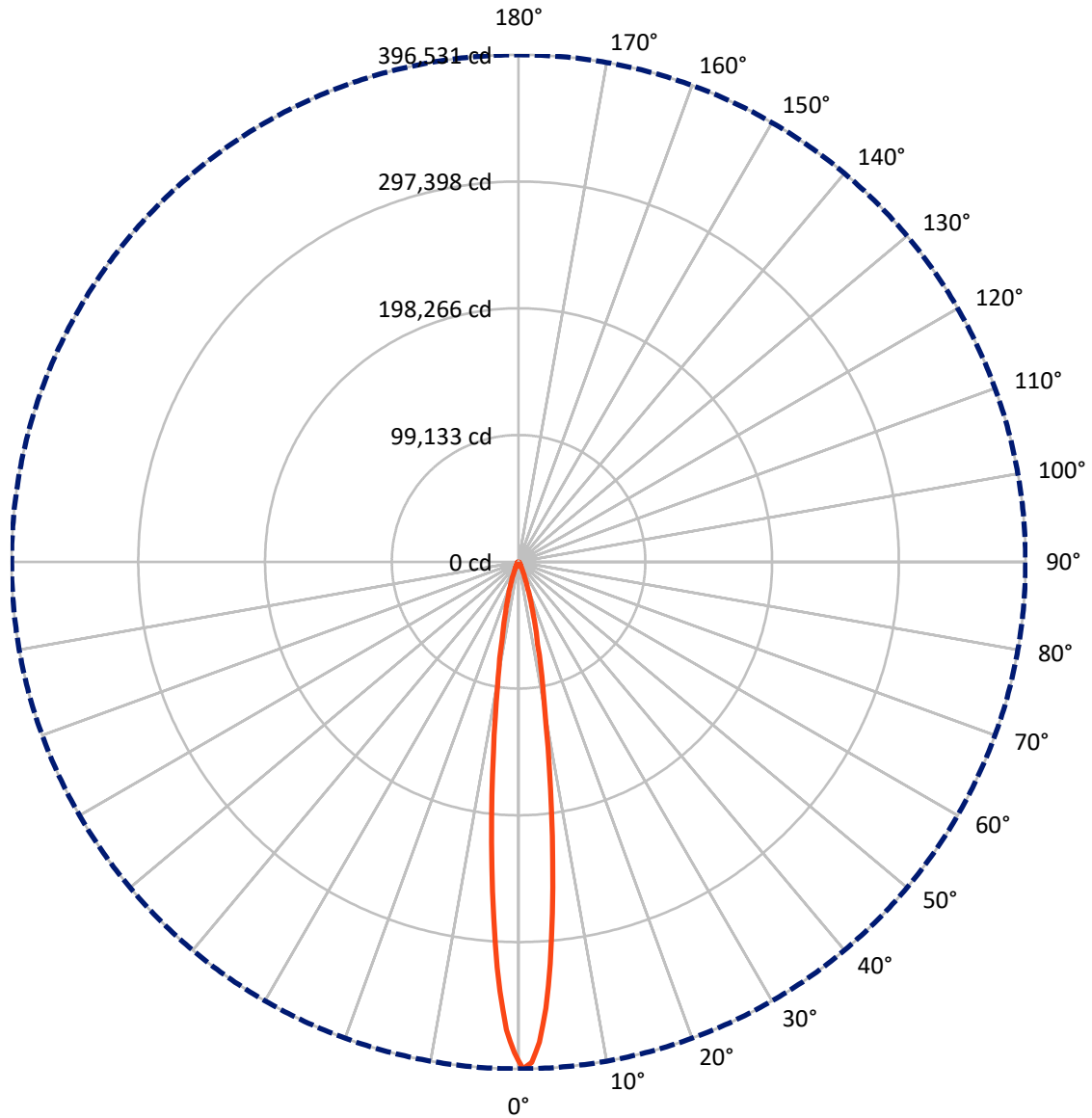
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 991.3 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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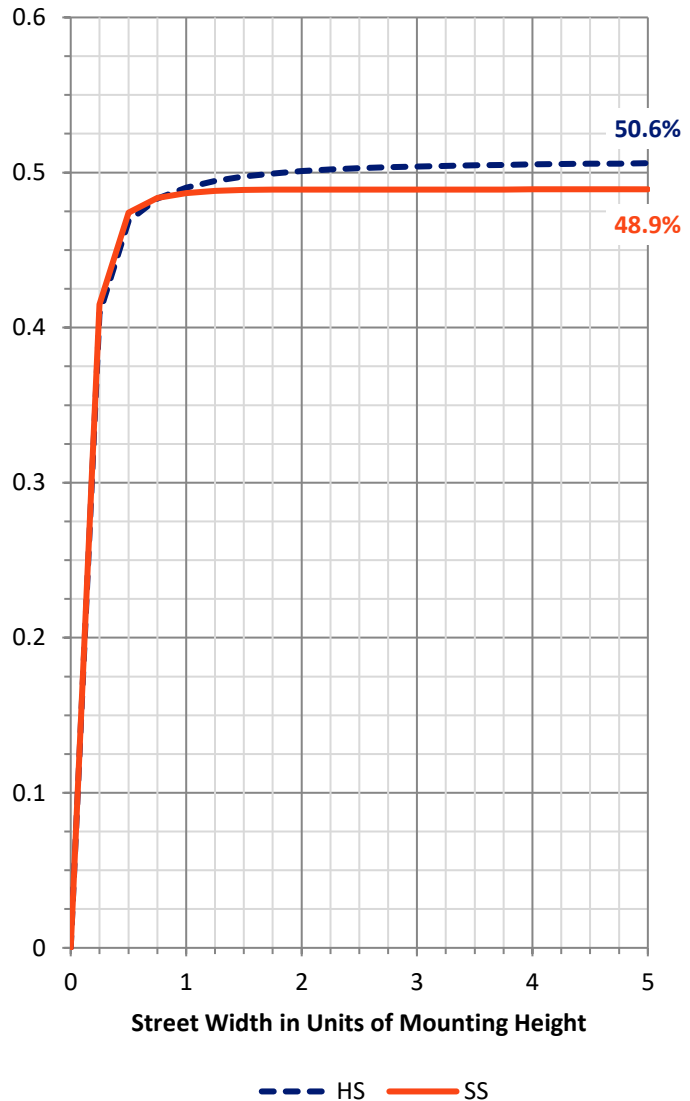
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20446.1	0.0	20446.1
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	19473.5	0.0	19473.5
	% Fixture	48.8	0.0	48.8
Total	Lumens	39919.6	0.0	39919.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20152.6	50.5
10°-20°	12901.6	32.3
20°-30°	3878.0	9.7
30°-40°	1262.7	3.2
40°-50°	734.7	1.8
50°-60°	488.0	1.2
60°-70°	293.7	0.7
70°-80°	151.0	0.4
80°-90°	57.3	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°	39919.6	100.0
0°-180°	39919.6	100.0

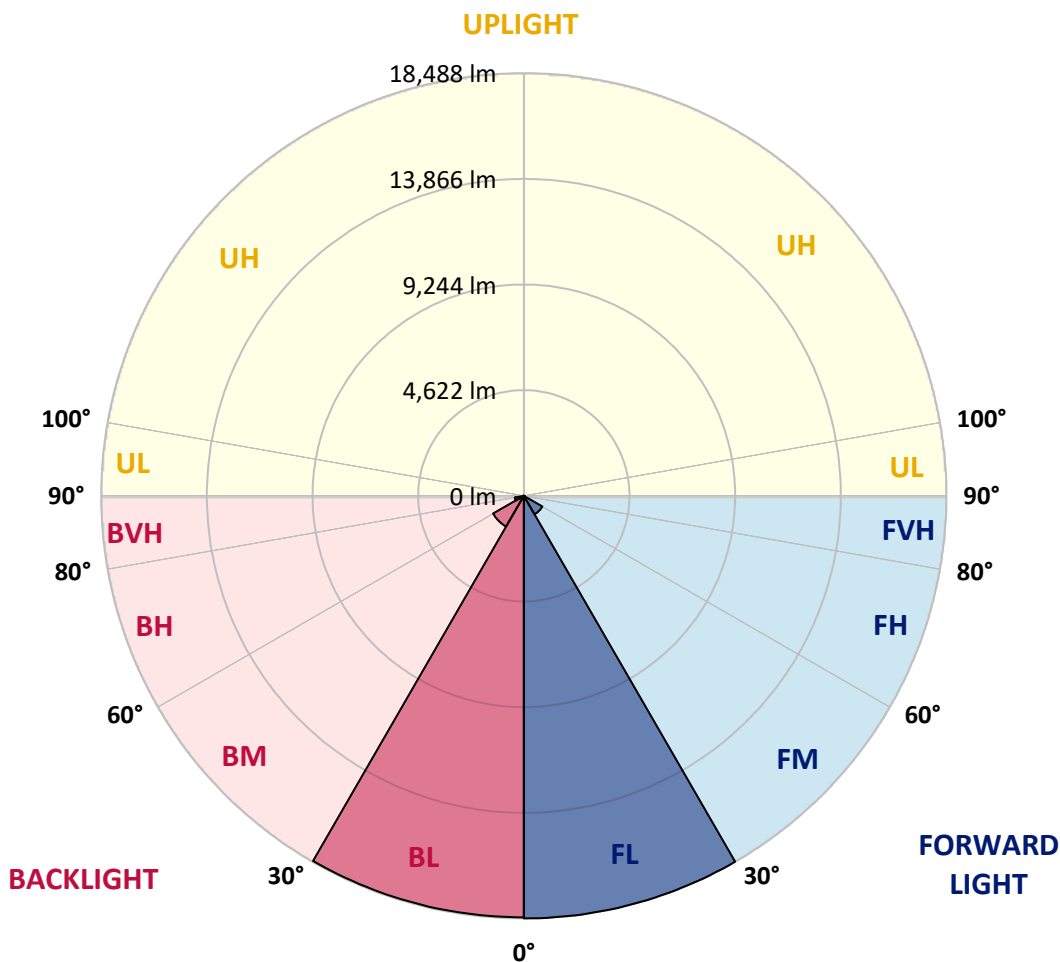


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	18488.0	46.3			
FM (30°-60°)	932.9	2.3			
FH (60°-80°)	43.9	0.1			G0/660
FVH (80°-90°)	8.6	0.0			G0/10
BL (0°-30°)	18444.2	46.2	B5		
BM (30°-60°)	1552.4	3.9	B2/2500		
BH (60°-80°)	400.8	1.0	B1/500		G0/660
BVH (80°-90°)	48.7	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°	396531.1	396531.1	396531.1	396531.1	396531.1	396531.1	396531.1	396531.1	396531.1	396531.1
1°	391783.2	390587.5	387500.5	389696.2	391626.7	391065.8	391026.7	390818.0	390526.7	392813.6
2°	376122.1	375348.2	370782.9	372665.6	375409.1	373409.1	374661.2	373561.2	373583.0	376313.4
3°	349721.8	350143.5	342860.8	346282.6	350095.7	345247.8	346752.2	349578.3	346617.4	345726.1
4°	315408.3	311747.4	307769.1	311247.4	312234.4	309412.6	312186.5	315647.5	311534.4	311717.0
5°	276233.9	273529.5	268820.8	270968.6	268520.8	269412.1	273568.7	274994.8	272125.2	268512.1
6°	235955.1	234033.4	228146.4	231242.0	230372.5	229868.1	235116.0	230768.1	232333.4	230146.4
7°	196267.7	192676.3	189785.0	192750.3	192941.6	191424.2	198237.3	197446.0	194598.1	193937.2
8°	162610.7	159028.1	156580.2	158789.0	160232.5	157849.8	161054.2	163158.6	160932.5	161132.5
9°	131153.8	130523.4	127119.0	130006.0	131575.6	129023.4	132571.2	133332.1	131249.5	132262.5
10°	107688.3	106953.5	104236.1	105405.7	108005.7	104962.2	108366.6	108614.4	106953.5	107427.4
12.5°	66548.7	66253.0	66179.1	66348.7	66313.9	66853.0	67722.6	66731.3	66600.8	64961.7
15°	43013.6	43452.7	43000.5	43870.1	43996.2	44504.9	43974.5	43174.5	41648.4	40891.8
17.5°	26843.8	27404.7	28178.6	29452.5	30726.5	30874.3	30169.9	29230.8	28491.7	27683.0
20°	15443.7	15717.6	15600.2	17126.3	20422.0	21317.7	20409.0	19422.0	18530.7	17713.3
22.5°	9595.8	9495.8	9678.4	10191.4	11265.4	14035.0	13291.5	12304.5	11656.7	10982.7
25°	5882.7	5991.4	5921.8	6204.4	6687.0	7861.0	8030.5	7604.4	7274.0	6926.2
27.5°	3787.0	3787.0	3817.4	3974.0	4304.4	4265.3	5169.6	4839.2	4660.9	4491.4
30°	2630.5	2639.2	2639.2	2730.5	2804.4	2673.9	2908.7	3334.8	3252.2	3121.8
32.5°	1952.2	1978.3	2000.0	2047.9	1987.0	1847.8	1904.4	2400.0	2352.2	2304.4
35°	1487.0	1508.7	1560.9	1587.0	1500.0	1413.1	1360.9	1765.2	1787.0	1773.9
37.5°	1082.6	1095.7	1191.3	1291.3	1191.3	1113.1	1082.6	1356.5	1460.9	1447.8
40°	830.4	834.8	852.2	965.2	965.2	904.4	913.1	1013.1	1195.7	1195.7
42.5°	713.1	713.1	730.4	713.1	717.4	782.6	804.4	817.4	1013.1	1013.1
45°	617.4	617.4	626.1	582.6	539.1	673.9	691.3	695.7	852.2	873.9
47.5°	517.4	517.4	534.8	478.3	456.5	534.8	582.6	595.7	734.8	752.2
50°	382.6	387.0	439.1	391.3	404.4	413.0	504.4	513.0	621.7	660.9
52.5°	256.5	256.5	265.2	304.4	352.2	339.1	408.7	439.1	495.7	547.8
55°	208.7	208.7	204.4	195.7	260.9	282.6	300.0	365.2	404.4	469.6
57.5°	143.5	152.2	139.1	160.9	169.6	213.0	226.1	287.0	308.7	395.7
60°	17.4	21.7	30.4	117.4	113.0	143.5	169.6	226.1	252.2	304.4
62.5°	4.3	4.3	8.7	21.7	78.3	95.7	134.8	156.5	182.6	234.8
65°	0.0	0.0	4.3	8.7	17.4	52.2	69.6	91.3	130.4	165.2
67.5°	0.0	0.0	4.3	8.7	8.7	21.7	34.8	56.5	69.6	121.7
70°	0.0	0.0	4.3	8.7	8.7	17.4	21.7	26.1	47.8	65.2
72.5°	0.0	0.0	4.3	8.7	13.0	17.4	21.7	21.7	21.7	43.5
75°	0.0	0.0	4.3	8.7	13.0	17.4	21.7	21.7	17.4	17.4
77.5°	0.0	0.0	4.3	8.7	17.4	21.7	26.1	21.7	13.0	13.0
80°	0.0	0.0	4.3	13.0	21.7	30.4	34.8	26.1	13.0	8.7
82.5°	0.0	0.0	8.7	17.4	26.1	34.8	47.8	39.1	17.4	8.7
85°	0.0	0.0	4.3	13.0	26.1	34.8	69.6	47.8	21.7	4.3
87.5°	0.0	0.0	0.0	4.3	4.3	8.7	26.1	17.4	8.7	4.3
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°
396531.1	0°	396531.1	396531.1	396531.1	396531.1	396531.1	396531.1	396531.1	396531.1
390174.5	1°	392900.6	393174.5	392278.9	393665.8	393178.9	390326.7	389383.2	388265.8
374709.1	2°	373561.2	374956.9	375026.5	376565.6	376543.9	373217.7	372187.3	374087.3
347534.8	3°	346482.6	348108.7	346643.5	349378.3	348556.6	344521.7	343473.9	345630.4
313160.5	4°	312225.7	311917.0	311412.6	309856.1	311773.5	309021.3	306947.3	309873.5
273303.4	5°	272755.6	272068.6	271086.0	270625.1	272051.3	270290.4	266025.1	270299.1
234103.0	6°	234389.9	231433.4	231289.9	231033.3	231176.8	226246.3	226542.0	229724.6
191663.3	7°	193689.4	194232.9	193124.2	194902.5	193545.9	190206.7	188919.8	192272.0
162010.7	8°	160880.3	160193.3	159345.5	162002.0	159649.8	157458.5	155958.5	158606.3
132427.8	9°	132179.9	130993.0	130132.1	129997.3	130362.5	126249.4	127084.2	129088.6
107688.3	10°	107727.4	105779.6	106253.5	106379.6	105979.6	103283.9	103310.0	104001.3
66048.7	12.5°	65813.9	64857.3	65096.5	65226.9	66040.0	65092.1	63753.0	62787.7
41644.0	15°	41365.7	40678.8	42083.1	43026.6	42835.3	41991.8	41361.4	40487.5
27683.0	17.5°	27426.4	28326.4	28330.8	29191.7	29278.6	28435.1	27948.2	27161.2
18004.6	20°	17939.4	18313.3	19091.5	19700.2	20052.4	19408.9	18826.3	18287.2
11226.2	22.5°	11226.2	11878.4	12365.4	13156.7	13478.4	13008.9	12595.8	12156.7
7008.8	25°	6891.4	7356.6	7761.0	8447.9	8887.1	8661.0	8282.7	7974.0
4526.1	27.5°	4595.7	4791.4	4991.4	5465.3	5921.8	5795.7	5643.5	5456.6
3191.3	30°	3239.2	3256.6	3469.6	3734.8	4039.2	4117.4	4047.9	3952.2
2343.5	32.5°	2387.0	2456.6	2556.6	2721.8	2926.1	3113.1	3078.3	3034.8
1791.3	35°	1843.5	1947.9	2030.5	2156.5	2265.2	2443.5	2473.9	2460.9
1473.9	37.5°	1504.4	1595.7	1678.3	1752.2	1843.5	1965.2	2060.9	2065.2
1217.4	40°	1247.8	1330.5	1439.1	1495.7	1560.9	1652.2	1769.6	1778.3
1030.4	42.5°	1052.2	1130.4	1239.1	1308.7	1356.5	1443.5	1560.9	1578.3
882.6	45°	904.4	952.2	1065.2	1147.8	1195.7	1252.2	1378.3	1395.7
760.9	47.5°	787.0	834.8	904.4	1021.8	1065.2	1117.4	1217.4	1247.8
673.9	50°	691.3	739.1	800.0	904.4	969.6	1013.1	1095.7	1139.1
587.0	52.5°	613.1	660.9	726.1	808.7	882.6	921.8	1000.0	1056.5
478.3	55°	513.0	595.7	643.5	717.4	817.4	852.2	913.1	987.0
417.4	57.5°	447.8	517.4	587.0	647.8	747.8	791.3	852.2	921.8
330.4	60°	378.3	443.5	526.1	578.3	673.9	730.4	795.7	860.9
252.2	62.5°	300.0	387.0	443.5	517.4	608.7	682.6	734.8	800.0
195.7	65°	221.7	317.4	382.6	460.9	547.8	626.1	669.6	739.1
139.1	67.5°	160.9	247.8	326.1	400.0	482.6	560.9	604.4	665.2
87.0	70°	126.1	182.6	269.6	334.8	421.7	487.0	534.8	573.9
56.5	72.5°	73.9	139.1	217.4	291.3	369.6	413.0	447.8	482.6
26.1	75°	47.8	108.7	178.3	243.5	300.0	339.1	369.6	400.0
13.0	77.5°	30.4	78.3	143.5	204.4	230.4	278.3	304.4	321.7
8.7	80°	17.4	60.9	126.1	165.2	187.0	217.4	243.5	265.2
8.7	82.5°	13.0	52.2	104.3	139.1	139.1	173.9	187.0	187.0
4.3	85°	8.7	43.5	82.6	130.4	104.3	130.4	121.7	121.7
4.3	87.5°	8.7	30.4	39.1	56.5	47.8	56.5	56.5	65.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
396531.1
383839.6
366039.4
336052.1
299282.0
259038.0
220498.4
183154.5
151045.4
122827.6
99296.9
62200.8
40039.6
26965.6
18100.2
11921.9
7795.8
5347.9
3887.0
3000.0
2417.4
2034.8
1765.2
1565.2
1391.3
1252.2
1143.5
1056.5
991.3
926.1
878.3
830.4
752.2
669.6
587.0
491.3
400.0
313.0
239.1
173.9
117.4
65.2
0.0

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