

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: P637208

Luminaire Tested: **IFLD-S-SA3C-827-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637208
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-827-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (48) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15484.9 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

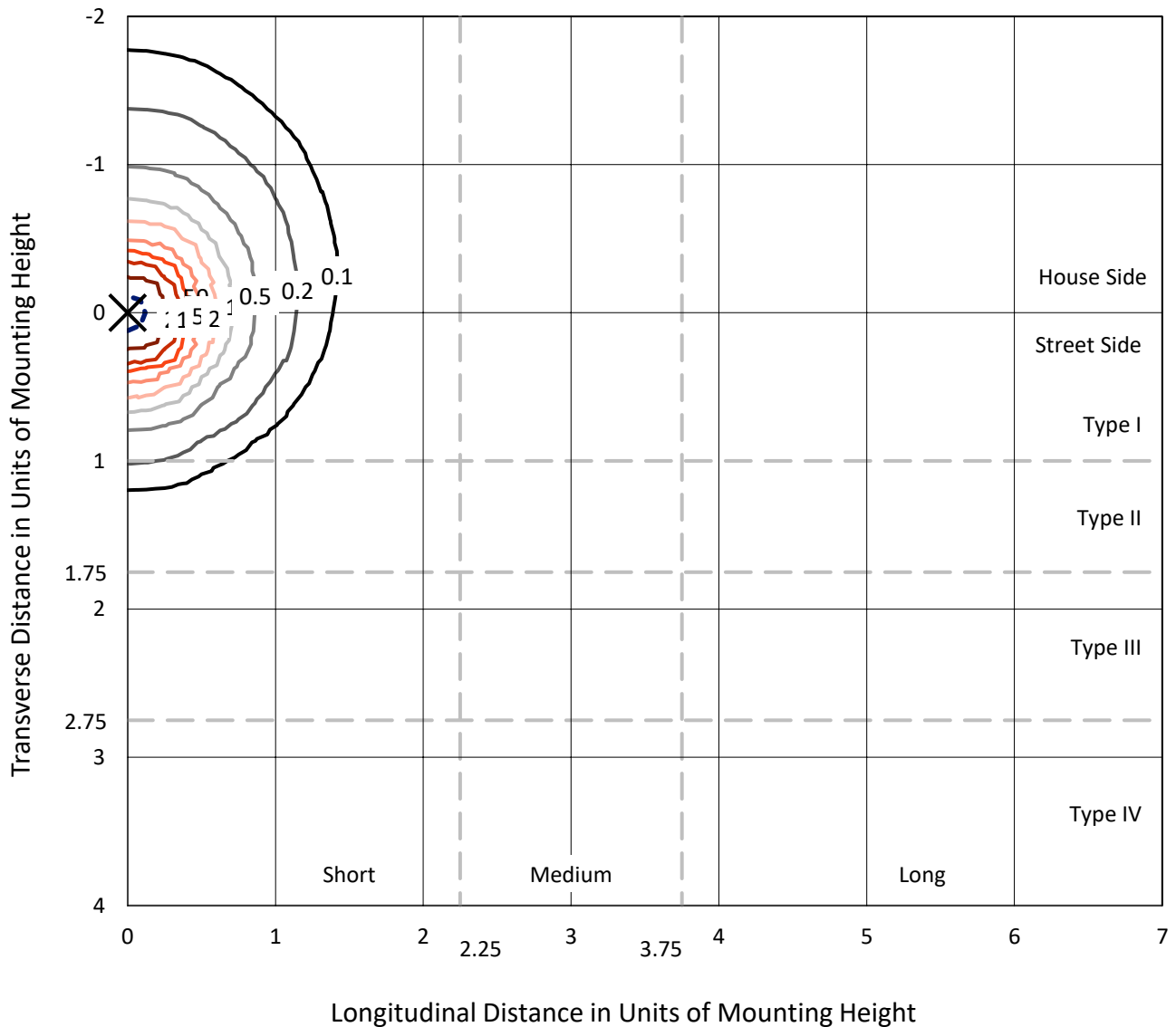
Input Watts (W): 160.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

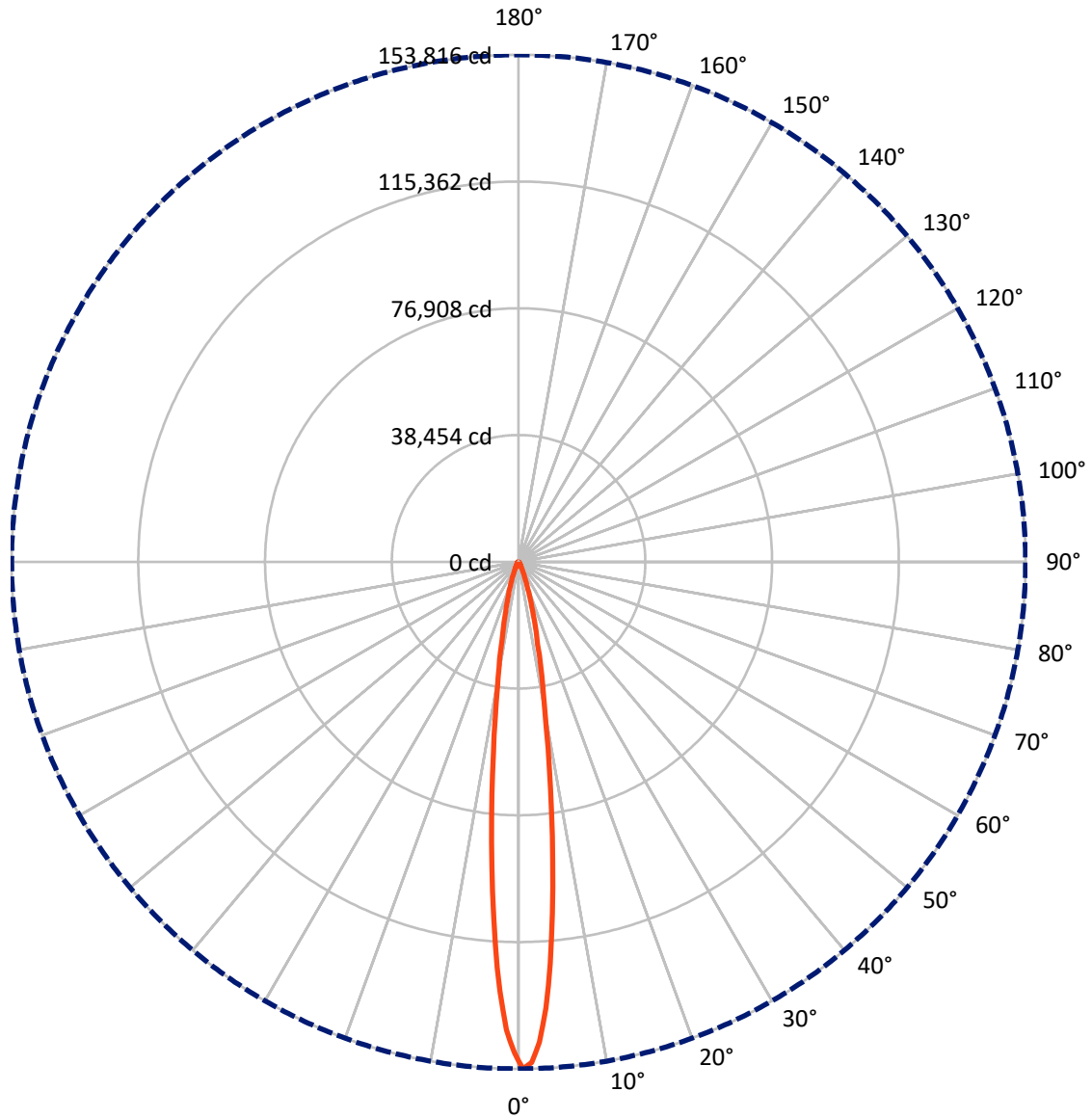
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 384.5 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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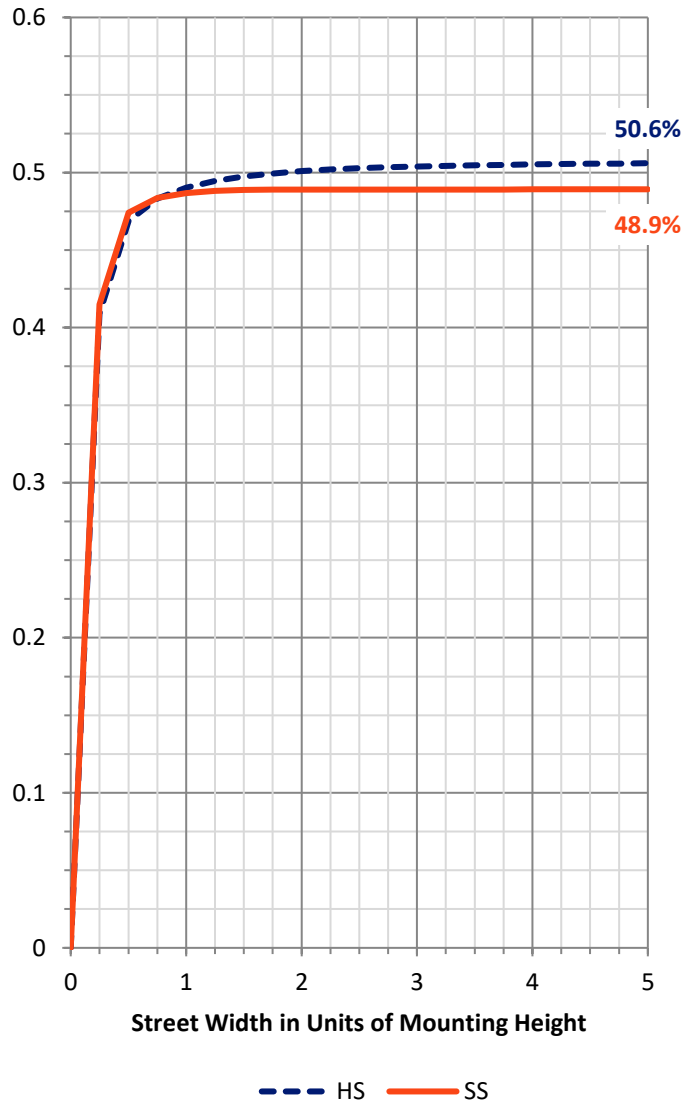
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7931.1	0.0	7931.1
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	7553.8	0.0	7553.8
	% Fixture	48.8	0.0	48.8
Total	Lumens	15484.9	0.0	15484.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7817.3	50.5
10°-20°	5004.6	32.3
20°-30°	1504.3	9.7
30°-40°	489.8	3.2
40°-50°	285.0	1.8
50°-60°	189.3	1.2
60°-70°	113.9	0.7
70°-80°	58.6	0.4
80°-90°	22.3	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°	15484.9	100.0
0°-180°	15484.9	100.0

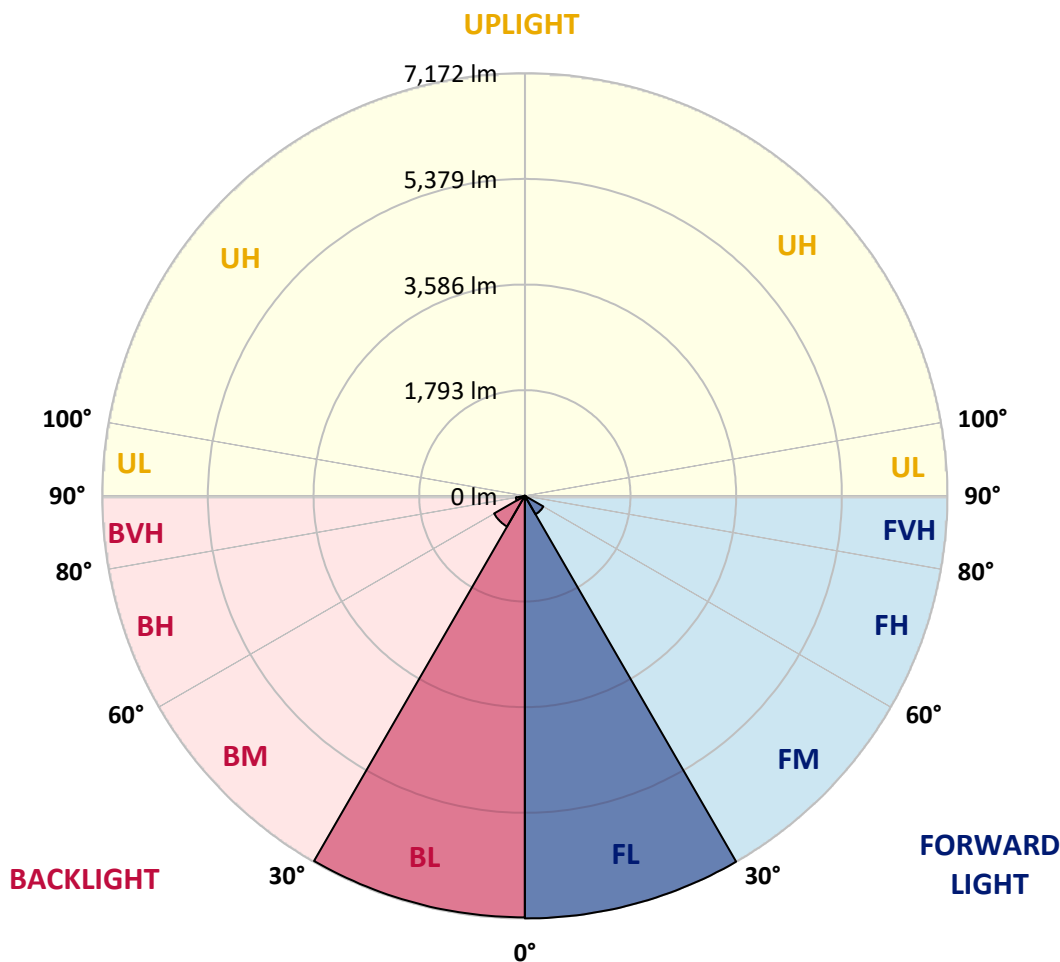


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7171.6	46.3			
FM (30°-60°)	361.9	2.3			
FH (60°-80°)	17.0	0.1			G0/660
FVH (80°-90°)	3.4	0.0			G0/10
BL (0°-30°)	7154.6	46.2	B5		
BM (30°-60°)	602.2	3.9	B1/1000		
BH (60°-80°)	155.5	1.0	B1/500		G0/660
BVH (80°-90°)	18.9	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°	153815.7	153815.7	153815.7	153815.7	153815.7	153815.7	153815.7	153815.7	153815.7	153815.7
1°	151974.0	151510.2	150312.8	151164.5	151913.3	151695.7	151680.6	151599.6	151486.6	152373.7
2°	145899.0	145598.8	143828.0	144558.2	145622.4	144846.6	145332.4	144905.7	144914.1	145973.3
3°	135658.3	135821.9	132996.9	134324.2	135803.3	133922.8	134506.3	135602.6	134454.1	134108.3
4°	122348.0	120927.9	119384.7	120733.9	121116.8	120022.2	121098.2	122440.7	120845.2	120916.1
5°	107152.1	106103.0	104276.5	105109.6	104160.1	104505.9	106118.2	106671.4	105558.3	104156.7
6°	91527.8	90782.3	88498.7	89699.6	89362.3	89166.6	91202.3	89515.7	90122.9	89274.6
7°	76132.9	74739.8	73618.2	74768.5	74842.7	74254.1	76896.9	76590.0	75485.3	75228.9
8°	63077.3	61687.5	60738.0	61594.8	62154.7	61230.5	62473.5	63289.8	62426.2	62503.8
9°	50875.0	50630.5	49309.9	50429.8	51038.6	50048.6	51424.8	51720.0	50912.1	51305.1
10°	41772.7	41487.6	40433.5	40887.2	41895.8	40715.2	42035.8	42131.9	41487.6	41671.5
12.5°	25814.5	25699.8	25671.1	25736.9	25723.4	25932.5	26269.8	25885.3	25834.7	25198.9
15°	16685.1	16855.5	16680.1	17017.4	17066.3	17263.6	17057.8	16747.5	16155.5	15862.1
17.5°	10412.8	10630.4	10930.6	11424.7	11918.9	11976.2	11703.0	11338.7	11052.0	10738.3
20°	5990.7	6096.9	6051.4	6643.4	7921.8	8269.2	7916.7	7533.9	7188.1	6871.0
22.5°	3722.2	3683.4	3754.3	3953.3	4369.9	5444.2	5155.8	4773.0	4521.7	4260.2
25°	2281.9	2324.1	2297.1	2406.7	2593.9	3049.3	3115.1	2949.8	2821.6	2686.7
27.5°	1469.0	1469.0	1480.8	1541.5	1669.7	1654.5	2005.3	1877.1	1808.0	1742.2
30°	1020.4	1023.7	1023.7	1059.2	1087.8	1037.2	1128.3	1293.6	1261.5	1210.9
32.5°	757.3	767.4	775.8	794.4	770.8	716.8	738.7	931.0	912.4	893.9
35°	576.8	585.2	605.5	615.6	581.9	548.1	527.9	684.7	693.2	688.1
37.5°	420.0	425.0	462.1	500.9	462.1	431.8	420.0	526.2	566.7	561.6
40°	322.1	323.8	330.6	374.4	374.4	350.8	354.2	393.0	463.8	463.8
42.5°	276.6	276.6	283.3	276.6	278.3	303.6	312.0	317.1	393.0	393.0
45°	239.5	239.5	242.9	226.0	209.1	261.4	268.2	269.8	330.6	339.0
47.5°	200.7	200.7	207.4	185.5	177.1	207.4	226.0	231.1	285.0	291.8
50°	148.4	150.1	170.3	151.8	156.8	160.2	195.6	199.0	241.2	256.4
52.5°	99.5	99.5	102.9	118.1	136.6	131.6	158.5	170.3	192.3	212.5
55°	81.0	81.0	79.3	75.9	101.2	109.6	116.4	141.7	156.8	182.1
57.5°	55.7	59.0	54.0	62.4	65.8	82.6	87.7	111.3	119.7	153.5
60°	6.7	8.4	11.8	45.5	43.9	55.7	65.8	87.7	97.8	118.1
62.5°	1.7	1.7	3.4	8.4	30.4	37.1	52.3	60.7	70.8	91.1
65°	0.0	0.0	1.7	3.4	6.7	20.2	27.0	35.4	50.6	64.1
67.5°	0.0	0.0	1.7	3.4	3.4	8.4	13.5	21.9	27.0	47.2
70°	0.0	0.0	1.7	3.4	3.4	6.7	8.4	10.1	18.6	25.3
72.5°	0.0	0.0	1.7	3.4	5.1	6.7	8.4	8.4	8.4	16.9
75°	0.0	0.0	1.7	3.4	5.1	6.7	8.4	8.4	6.7	6.7
77.5°	0.0	0.0	1.7	3.4	6.7	8.4	10.1	8.4	5.1	5.1
80°	0.0	0.0	1.7	5.1	8.4	11.8	13.5	10.1	5.1	3.4
82.5°	0.0	0.0	3.4	6.7	10.1	13.5	18.6	15.2	6.7	3.4
85°	0.0	0.0	1.7	5.1	10.1	13.5	27.0	18.6	8.4	1.7
87.5°	0.0	0.0	0.0	1.7	1.7	3.4	10.1	6.7	3.4	1.7
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°
153815.7	0°	153815.7	153815.7	153815.7	153815.7	153815.7	153815.7	153815.7	153815.7
151350.0	1°	152407.5	152513.7	152166.3	152704.3	152515.4	151409.0	151043.0	149985.6
145350.9	2°	144905.7	145447.0	145474.0	146071.1	146062.6	144772.4	144372.7	145109.7
134809.9	3°	134401.8	135032.6	134464.2	135525.0	135206.3	133641.1	133234.7	134071.2
121476.0	4°	121113.4	120993.6	120798.0	120194.2	120938.0	119870.4	119065.9	120201.0
106015.3	5°	105802.8	105536.3	105155.2	104976.4	105529.6	104846.5	103192.0	104849.9
90809.3	6°	90920.6	89773.8	89718.1	89618.6	89674.3	87761.7	87876.4	89111.0
74346.8	7°	75132.8	75343.6	74913.5	75603.3	75077.1	73781.8	73282.6	74583.0
62844.5	8°	62406.0	62139.5	61810.7	62841.1	61928.7	61078.7	60496.8	61523.9
51369.2	9°	51273.0	50812.6	50478.7	50426.4	50568.1	48972.6	49296.4	50073.9
41772.7	10°	41787.8	41032.3	41216.1	41265.0	41109.8	40064.2	40074.3	40342.5
25620.5	12.5°	25529.4	25158.4	25251.1	25301.7	25617.1	25249.5	24730.0	24355.6
16153.8	15°	16045.9	15779.4	16324.2	16690.2	16616.0	16288.8	16044.2	15705.2
10738.3	17.5°	10638.8	10987.9	10989.6	11323.5	11357.3	11030.1	10841.2	10535.9
6984.0	20°	6958.7	7103.8	7405.7	7641.8	7778.4	7528.8	7302.8	7093.7
4354.7	22.5°	4354.7	4607.7	4796.6	5103.5	5228.3	5046.2	4886.0	4715.6
2718.7	25°	2673.2	2853.7	3010.5	3277.0	3447.3	3359.6	3212.9	3093.1
1755.7	27.5°	1782.7	1858.6	1936.2	2120.0	2297.1	2248.2	2189.2	2116.6
1237.9	30°	1256.5	1263.2	1345.9	1448.8	1566.8	1597.2	1570.2	1533.1
909.1	32.5°	925.9	952.9	991.7	1055.8	1135.1	1207.6	1194.1	1177.2
694.9	35°	715.1	755.6	787.6	836.5	878.7	947.8	959.7	954.6
571.7	37.5°	583.5	619.0	651.0	679.7	715.1	762.3	799.4	801.1
472.2	40°	484.0	516.1	558.3	580.2	605.5	640.9	686.4	689.8
399.7	42.5°	408.1	438.5	480.7	507.7	526.2	559.9	605.5	612.2
342.4	45°	350.8	369.4	413.2	445.3	463.8	485.7	534.6	541.4
295.1	47.5°	305.3	323.8	350.8	396.3	413.2	433.4	472.2	484.0
261.4	50°	268.2	286.7	310.3	350.8	376.1	393.0	425.0	441.9
227.7	52.5°	237.8	256.4	281.7	313.7	342.4	357.6	387.9	409.8
185.5	55°	199.0	231.1	249.6	278.3	317.1	330.6	354.2	382.8
161.9	57.5°	173.7	200.7	227.7	251.3	290.1	307.0	330.6	357.6
128.2	60°	146.7	172.0	204.1	224.3	261.4	283.3	308.6	333.9
97.8	62.5°	116.4	150.1	172.0	200.7	236.1	264.8	285.0	310.3
75.9	65°	86.0	123.1	148.4	178.8	212.5	242.9	259.7	286.7
54.0	67.5°	62.4	96.1	126.5	155.2	187.2	217.6	234.4	258.0
33.7	70°	48.9	70.8	104.6	129.9	163.6	188.9	207.4	222.6
21.9	72.5°	28.7	54.0	84.3	113.0	143.4	160.2	173.7	187.2
10.1	75°	18.6	42.2	69.1	94.4	116.4	131.6	143.4	155.2
5.1	77.5°	11.8	30.4	55.7	79.3	89.4	107.9	118.1	124.8
3.4	80°	6.7	23.6	48.9	64.1	72.5	84.3	94.4	102.9
3.4	82.5°	5.1	20.2	40.5	54.0	54.0	67.5	72.5	72.5
1.7	85°	3.4	16.9	32.0	50.6	40.5	50.6	47.2	47.2
1.7	87.5°	3.4	11.8	15.2	21.9	18.6	21.9	21.9	25.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
153815.7
148892.7
141987.9
130355.7
116092.5
100481.7
85532.1
71046.2
58591.0
47645.3
38517.6
24127.9
15531.5
10460.0
7021.1
4624.5
3024.0
2074.5
1507.8
1163.7
937.7
789.3
684.7
607.2
539.7
485.7
443.6
409.8
384.5
359.2
340.7
322.1
291.8
259.7
227.7
190.6
155.2
121.4
92.8
67.5
45.5
25.3
0.0

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