

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: P637757

Luminaire Tested: **IFLD-S-SA3A-830-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637757
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-830-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10269.4 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

Input Watts (W): 94.8
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



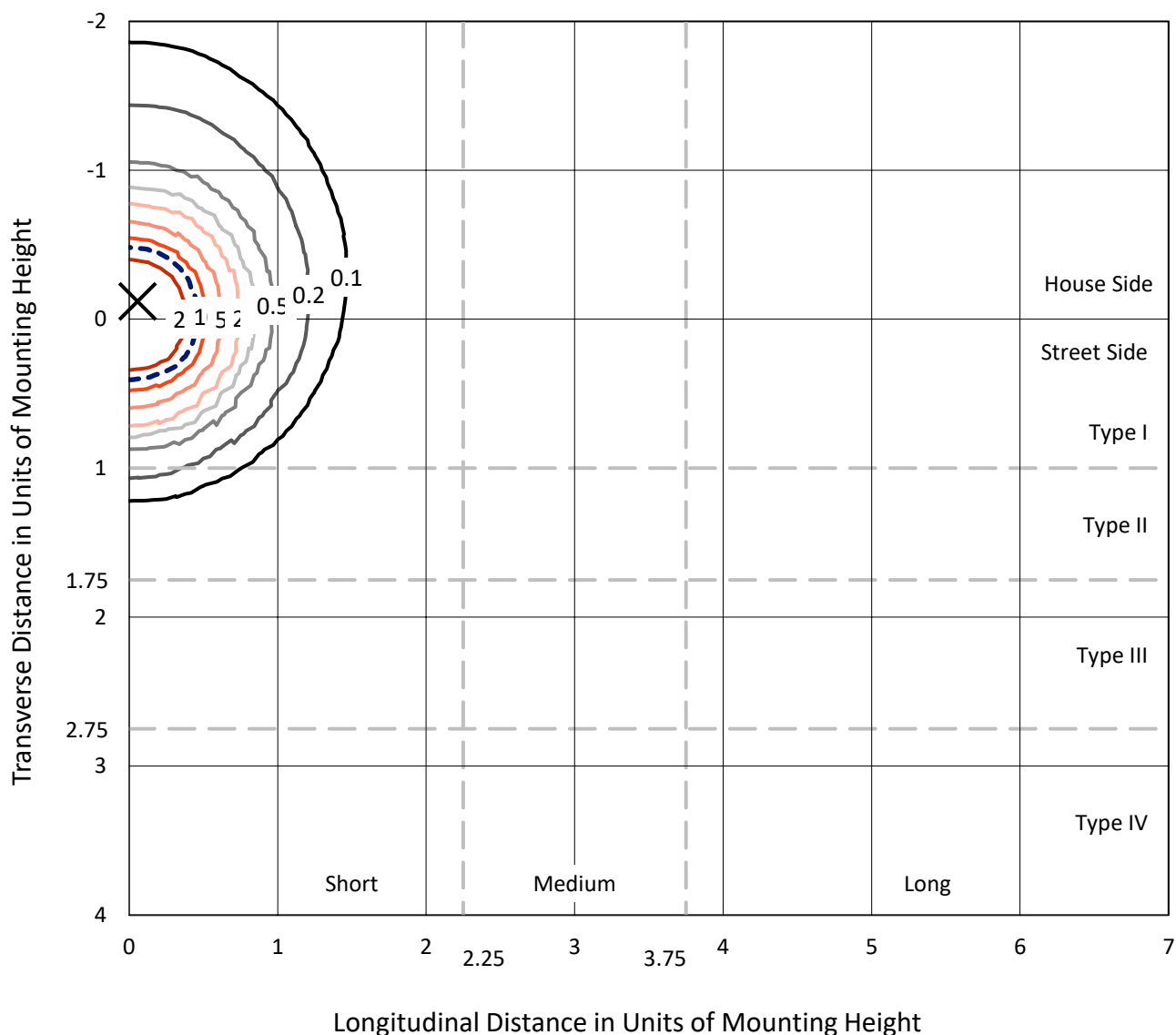
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



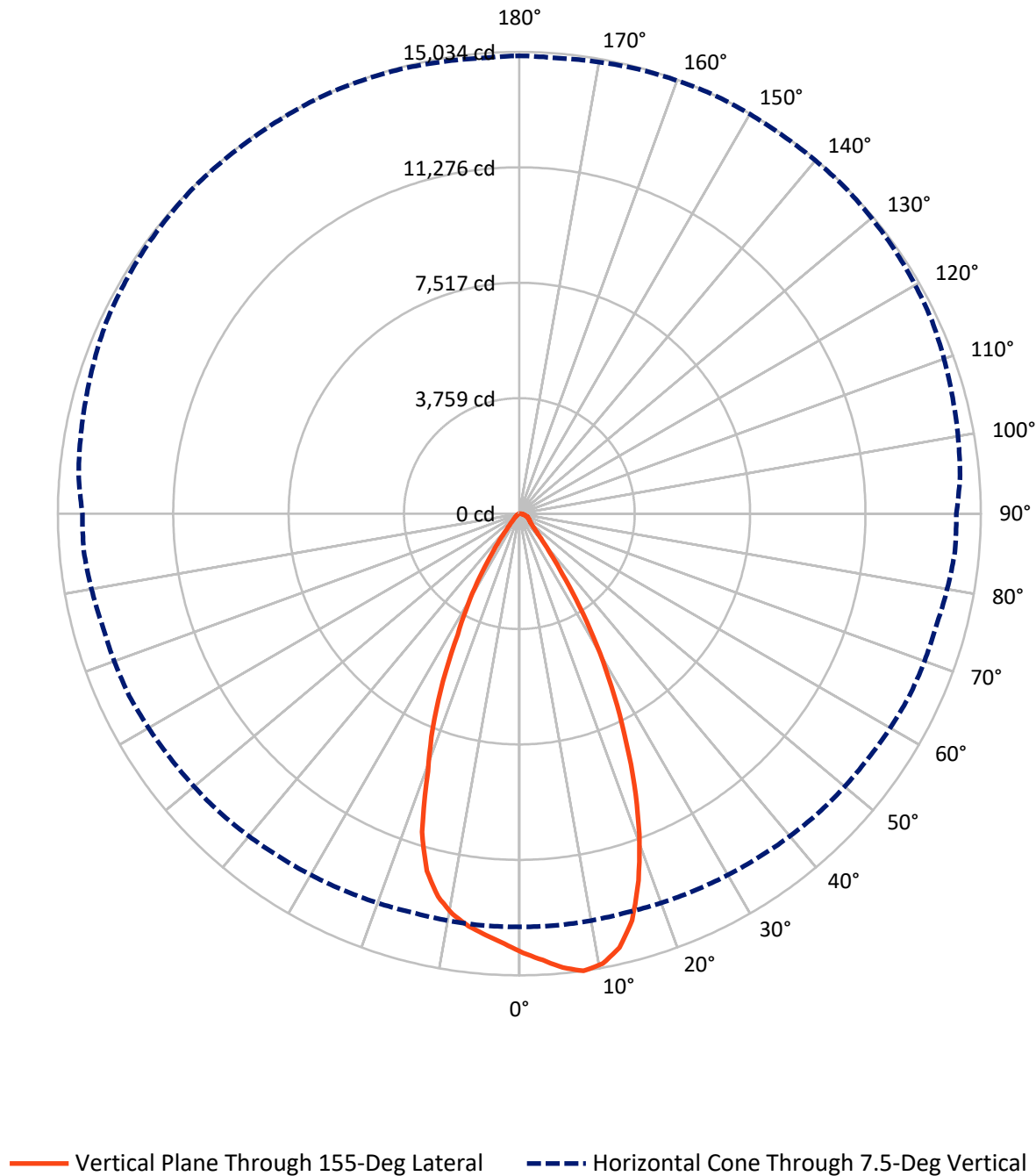
Based on 20 foot mounting height. Maximum calculated value = 36.4 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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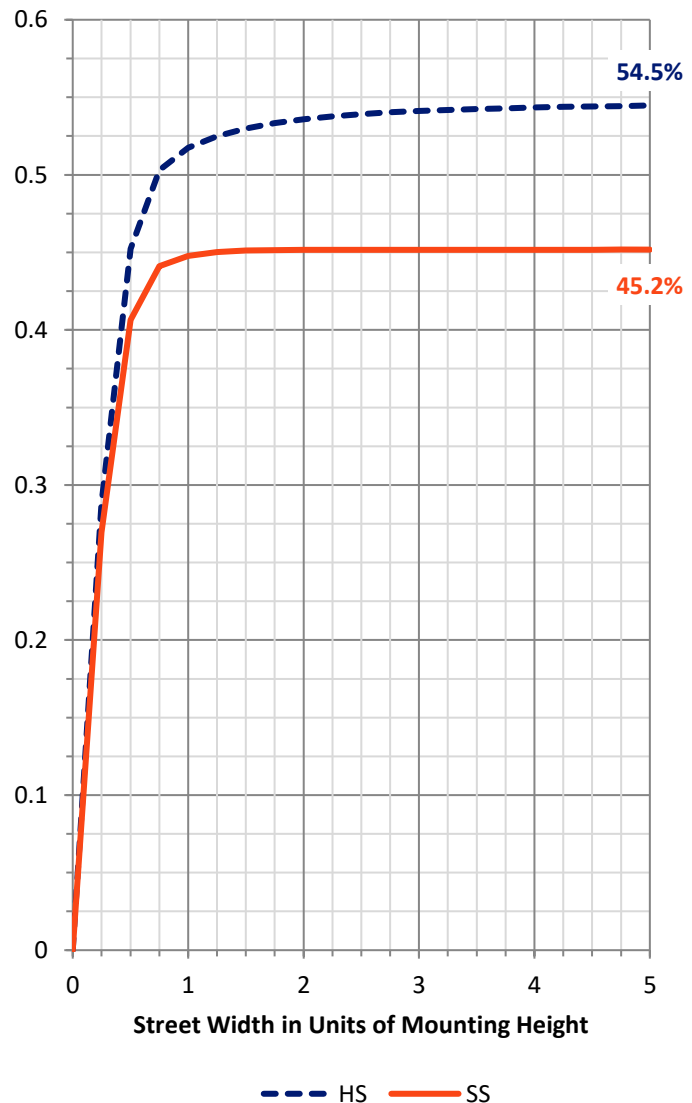
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5669.1	0.0	5669.1
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	4600.3	0.0	4600.3
	% Fixture	44.8	0.0	44.8
Total	Lumens	10269.4	0.0	10269.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1364.2	13.3
10°-20°	3537.3	34.4
20°-30°	3241.2	31.6
30°-40°	1309.4	12.8
40°-50°	384.1	3.7
50°-60°	214.8	2.1
60°-70°	130.4	1.3
70°-80°	66.3	0.6
80°-90°	21.7	0.2
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°	10269.4	100.0
0°-180°	10269.4	100.0

Coefficient of Utilization



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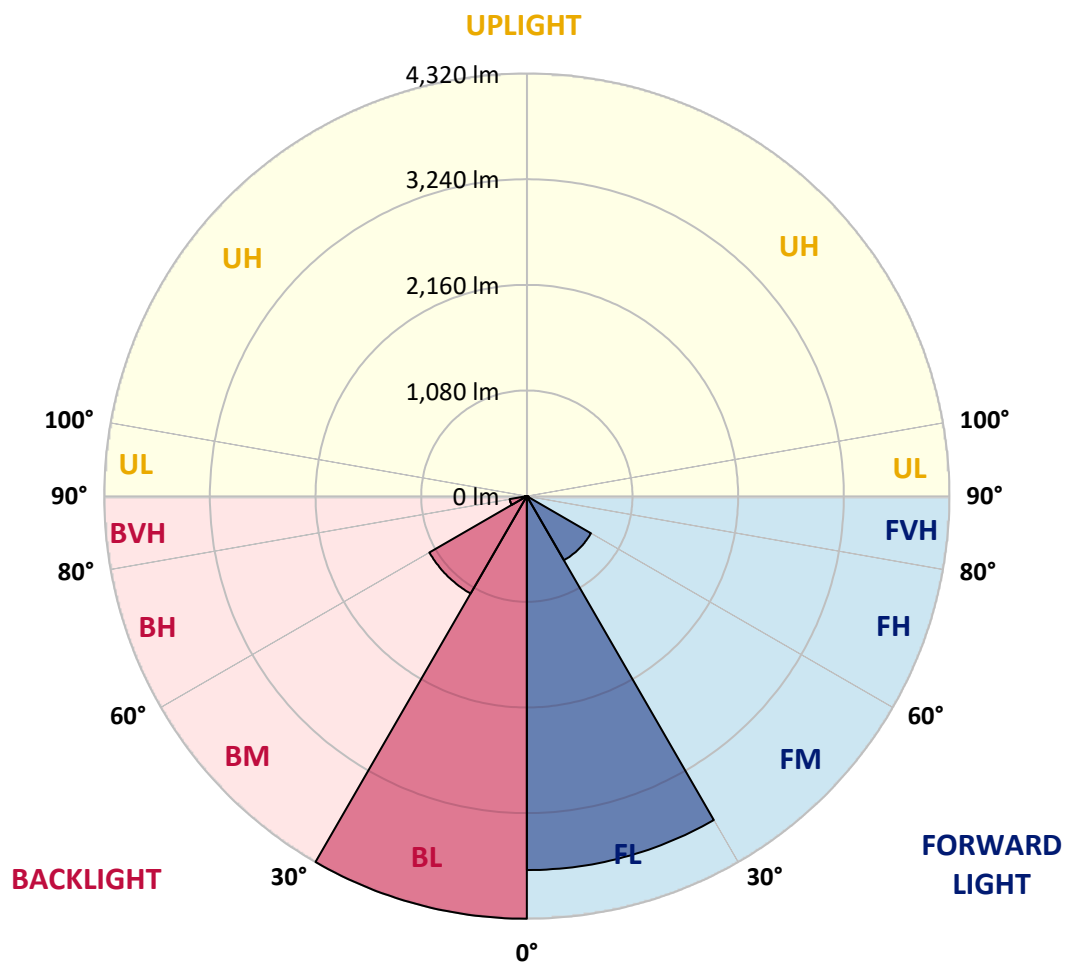
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3822.5	37.2			
FM	(30°-60°)	757.6	7.4			
FH	(60°-80°)	18.4	0.2			G0/660
FVH	(80°-90°)	1.9	0.0			G0/10
BL	(0°-30°)	4320.1	42.1	B4/5000		
BM	(30°-60°)	1150.8	11.2	B2/2500		
BH	(60°-80°)	178.4	1.7	B1/500		G1/500
BVH	(80°-90°)	19.8	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	14306.0	14306.0	14306.0	14306.0	14306.0	14306.0	14306.0	14306.0	14306.0	14306.0
2.5°	13995.8	14043.1	13948.4	14011.2	14059.7	14175.8	14185.2	14225.5	14239.7	14345.1
5°	13730.5	13767.2	13690.3	13774.3	13843.0	13946.0	14025.4	14136.7	14198.3	14322.6
7.5°	13454.6	13462.9	13447.5	13536.3	13639.3	13781.4	13879.7	14025.4	14063.3	14240.9
10°	13120.7	13060.3	13089.9	13220.1	13374.1	13592.0	13659.5	13805.1	13872.6	14053.8
12.5°	12587.8	12618.6	12581.9	12747.7	12875.5	13123.0	13194.1	13340.9	13470.0	13629.9
15°	11837.0	11819.3	11893.9	12022.9	12161.5	12358.1	12472.9	12632.8	12731.1	12896.9
17.5°	10149.6	10210.0	10517.9	10841.1	11125.3	11355.1	11492.4	11625.1	11696.1	11876.1
20°	8765.3	8689.5	8730.9	8913.3	9722.1	10073.8	10218.3	10250.2	10279.8	10421.9
22.5°	7217.6	7192.7	7331.2	7536.1	7727.9	8539.1	8735.7	8661.1	8722.6	8856.5
25°	5359.6	5485.1	5608.3	6001.4	6250.1	6648.0	7021.0	7054.1	7076.6	7160.7
27.5°	4362.5	4318.7	4316.3	4426.5	4793.5	5125.1	5442.5	5515.9	5502.9	5583.4
30°	3429.4	3415.2	3365.4	3391.5	3354.8	3649.6	3798.8	4100.8	4084.2	4086.6
32.5°	2473.7	2420.5	2400.3	2439.4	2401.5	2374.3	2504.5	2845.6	2839.7	2863.3
35°	1496.8	1489.7	1506.3	1540.6	1464.8	1462.5	1489.7	1810.6	1849.7	1887.6
37.5°	826.6	819.4	832.5	959.2	934.3	911.8	918.9	1088.3	1200.8	1229.2
40°	544.7	543.5	553.0	575.5	618.1	609.9	613.4	689.2	795.8	820.6
42.5°	364.7	365.9	371.8	397.9	403.8	446.4	439.3	457.1	556.6	577.9
45°	291.3	290.1	293.7	281.8	288.9	332.8	337.5	338.7	423.9	437.0
47.5°	229.7	229.7	233.3	217.9	214.3	241.6	266.4	270.0	338.7	356.4
50°	161.0	161.0	178.8	171.7	180.0	188.3	215.5	219.1	277.1	296.0
52.5°	118.4	120.8	123.2	124.3	151.6	150.4	174.1	190.7	209.6	242.8
55°	90.0	92.4	86.4	92.4	112.5	125.5	130.3	153.9	167.0	203.7
57.5°	59.2	65.1	60.4	71.1	75.8	97.1	104.2	126.7	135.0	167.0
60°	8.3	9.5	15.4	49.7	53.3	63.9	80.5	100.7	108.9	136.2
62.5°	1.2	1.2	3.6	8.3	35.5	42.6	60.4	69.9	80.5	101.8
65°	0.0	0.0	1.2	2.4	7.1	24.9	30.8	37.9	55.7	73.4
67.5°	0.0	0.0	1.2	2.4	3.6	8.3	13.0	24.9	32.0	50.9
70°	0.0	0.0	1.2	2.4	3.6	4.7	7.1	9.5	18.9	29.6
72.5°	0.0	0.0	1.2	2.4	3.6	4.7	5.9	7.1	8.3	18.9
75°	0.0	0.0	1.2	2.4	3.6	5.9	7.1	7.1	7.1	8.3
77.5°	0.0	0.0	1.2	2.4	4.7	7.1	8.3	7.1	5.9	5.9
80°	0.0	0.0	1.2	3.6	5.9	8.3	9.5	7.1	4.7	3.6
82.5°	0.0	0.0	1.2	3.6	5.9	8.3	9.5	8.3	4.7	3.6
85°	0.0	0.0	1.2	3.6	4.7	5.9	9.5	8.3	4.7	2.4
87.5°	0.0	0.0	0.0	1.2	1.2	2.4	4.7	3.6	2.4	1.2
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°
14306.0	0°	14306.0	14306.0	14306.0	14306.0	14306.0	14306.0	14306.0	14306.0	14306.0
14342.7	2.5°	14449.3	14502.6	14596.2	14622.2	14702.7	14610.4	14559.4	14564.2	14454.1
14307.2	5°	14449.3	14571.3	14734.7	14812.9	14872.1	14867.3	14854.3	14821.1	14740.6
14236.2	7.5°	14411.4	14610.4	14835.4	14939.6	15010.6	15004.7	15034.3	14981.0	14882.7
14109.5	10°	14289.5	14462.3	14739.4	14824.7	14939.6	14941.9	14905.2	14915.9	14740.6
13646.4	12.5°	13905.8	14040.8	14283.5	14380.6	14520.4	14542.9	14502.6	14487.2	14321.4
12887.4	15°	13163.3	13241.5	13485.4	13582.5	13721.1	13702.1	13742.4	13725.8	13580.1
11861.9	17.5°	12077.4	12102.3	12358.1	12439.8	12570.0	12621.0	12560.6	12637.5	12512.0
10446.8	20°	10520.2	10654.0	10941.8	11067.3	11143.1	11234.3	11154.9	11241.4	11094.5
8729.7	22.5°	8940.5	9019.9	9280.4	9461.6	9602.5	9620.2	9590.6	9651.0	9453.3
7216.4	25°	7215.2	7346.6	7552.7	7789.5	7928.1	8013.3	7936.3	7975.4	7943.5
5596.4	27.5°	5691.2	5808.4	5963.5	6140.0	6348.4	6459.7	6398.1	6464.4	6308.1
4173.0	30°	4176.6	4235.8	4411.1	4598.2	4826.7	4961.7	4967.6	5035.1	4942.8
2923.7	32.5°	2945.0	2997.2	3104.9	3229.2	3447.1	3597.5	3573.8	3583.3	3526.5
1905.3	35°	1914.8	1984.7	2061.7	2120.9	2252.3	2418.1	2405.1	2393.2	2354.1
1252.9	37.5°	1280.1	1307.3	1350.0	1403.2	1488.5	1592.7	1627.1	1584.4	1567.8
845.5	40°	865.6	913.0	941.4	981.7	1021.9	1109.6	1133.3	1125.0	1108.4
592.1	42.5°	614.6	651.3	686.8	725.9	747.2	801.7	847.9	834.8	827.7
450.0	45°	466.6	499.7	541.2	570.8	592.1	624.1	667.9	672.6	662.0
361.2	47.5°	374.2	403.8	437.0	473.7	498.5	518.7	556.6	570.8	563.7
304.3	50°	317.4	339.9	371.8	408.5	435.8	453.5	486.7	502.1	497.4
254.6	52.5°	270.0	297.2	326.8	357.6	390.8	408.5	439.3	461.8	458.3
210.8	55°	223.8	259.3	290.1	320.9	358.8	376.6	403.8	433.4	427.5
178.8	57.5°	195.4	225.0	257.0	286.6	326.8	350.5	375.4	406.2	405.0
146.8	60°	163.4	193.0	228.5	253.4	296.0	329.2	351.7	383.7	386.0
111.3	62.5°	130.3	167.0	194.2	228.5	267.6	306.7	328.0	360.0	371.8
85.3	65°	97.1	137.4	168.2	202.5	239.2	283.0	302.0	333.9	345.8
61.6	67.5°	72.2	103.0	142.1	171.7	213.2	251.0	273.5	303.1	311.4
36.7	70°	54.5	79.3	118.4	144.5	187.1	217.9	240.4	262.9	273.5
24.9	72.5°	32.0	59.2	93.5	124.3	161.0	187.1	203.7	221.4	228.5
11.8	75°	22.5	45.0	73.4	103.0	130.3	151.6	167.0	182.4	189.5
5.9	77.5°	11.8	33.2	58.0	82.9	101.8	119.6	135.0	146.8	151.6
4.7	80°	7.1	23.7	47.4	65.1	78.2	93.5	108.9	117.2	116.0
3.6	82.5°	4.7	18.9	34.3	47.4	56.8	68.7	79.3	85.3	85.3
2.4	85°	3.6	13.0	23.7	36.7	37.9	47.4	49.7	55.7	56.8
2.4	87.5°	2.4	8.3	13.0	21.3	20.1	24.9	26.1	29.6	32.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
14306.0
14365.2
14766.7
14905.2
14689.7
14283.5
13626.3
12481.2
11082.7
9426.0
7923.3
6348.4
4959.3
3558.4
2319.8
1564.3
1110.8
821.8
660.8
560.1
496.2
455.9
427.5
403.8
386.0
370.6
344.6
311.4
271.2
226.2
187.1
150.4
114.9
84.1
55.7
30.8
0.0

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