

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: P636465

Luminaire Tested: **IFLD-M-SA4D-930-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636465
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-930-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (64) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16567.7 lumens
Efficiency: N/A
Efficacy: 66.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 249.7
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

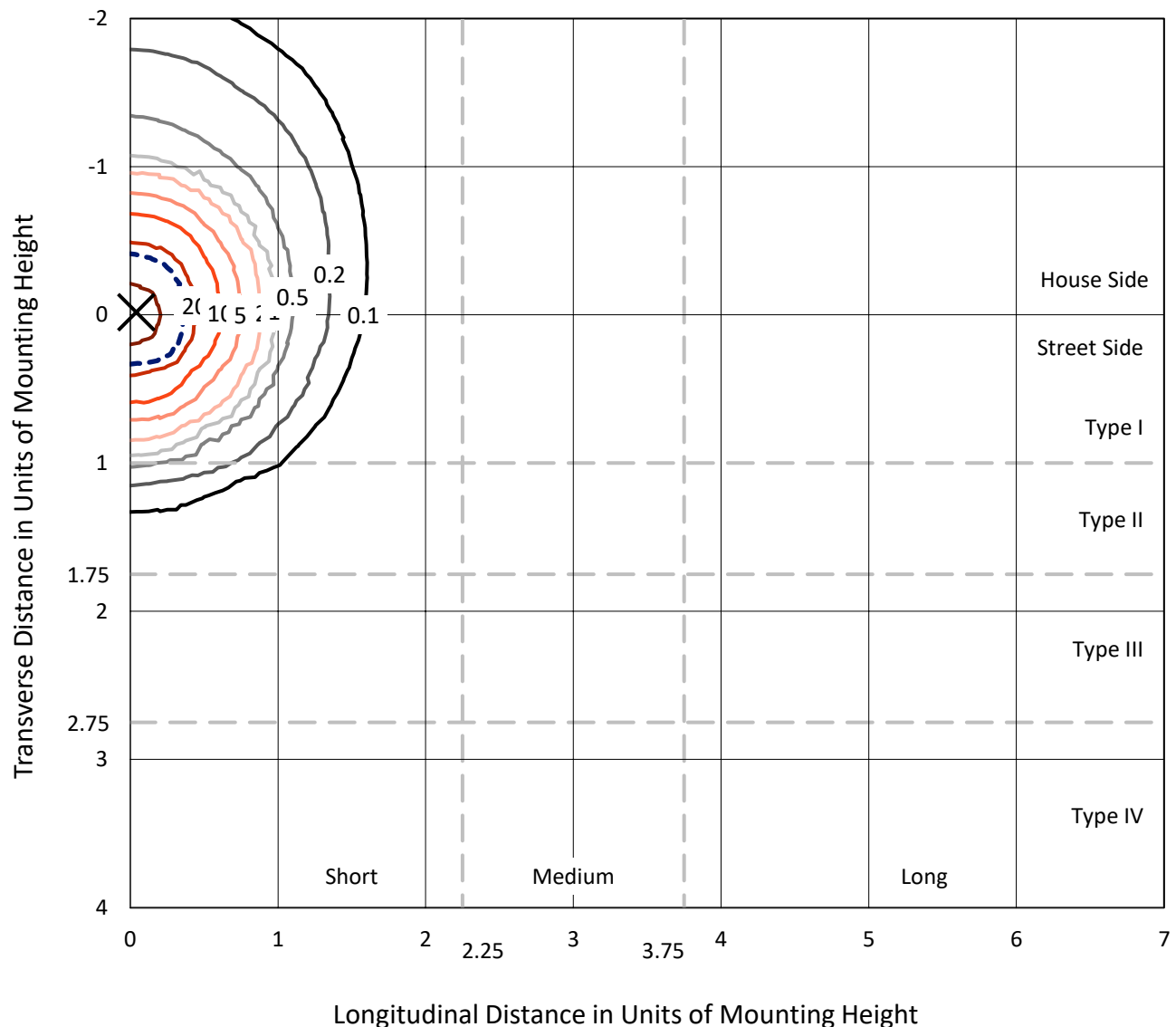


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

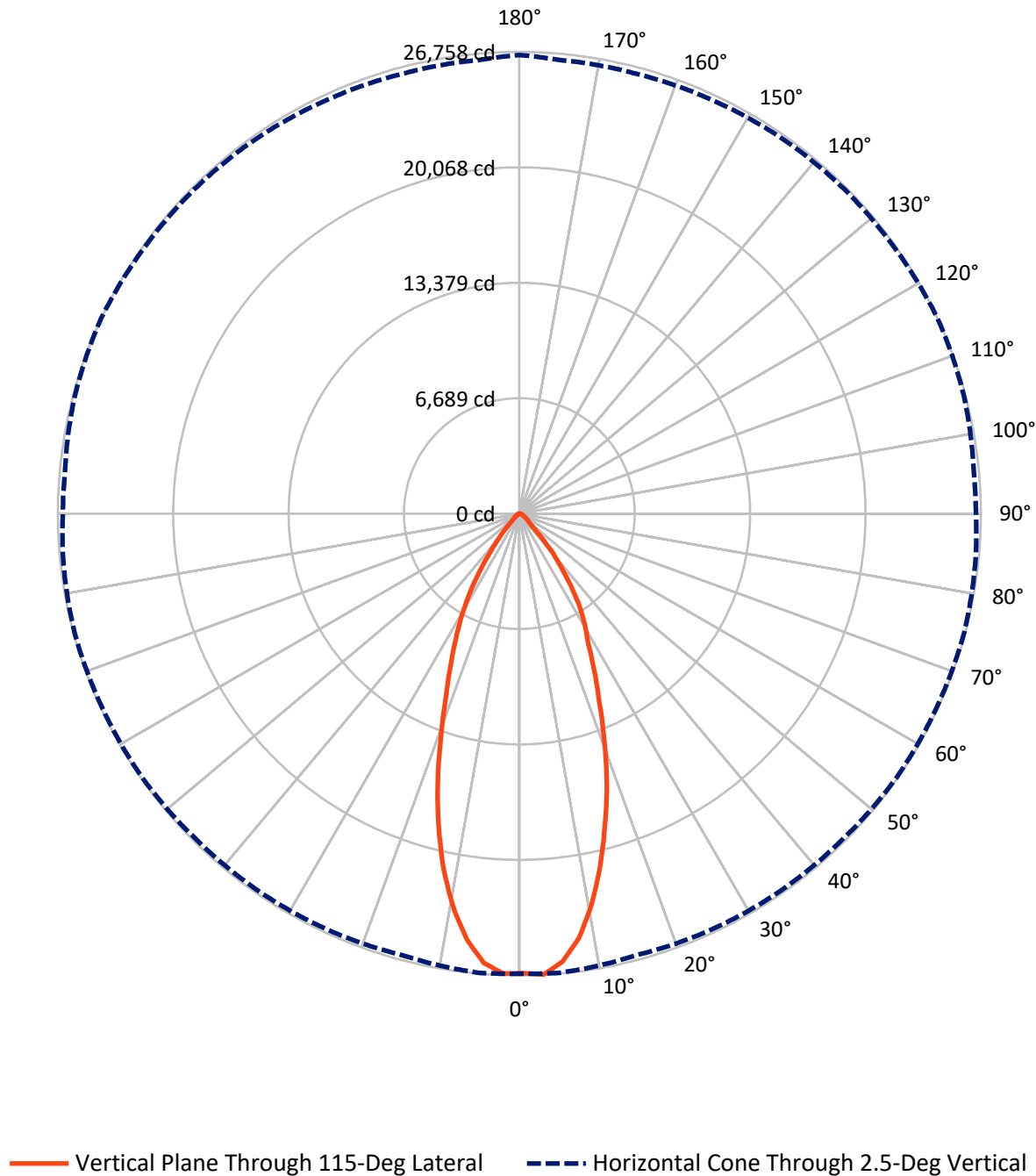


Based on 20 foot mounting height. Maximum calculated value = 66.6 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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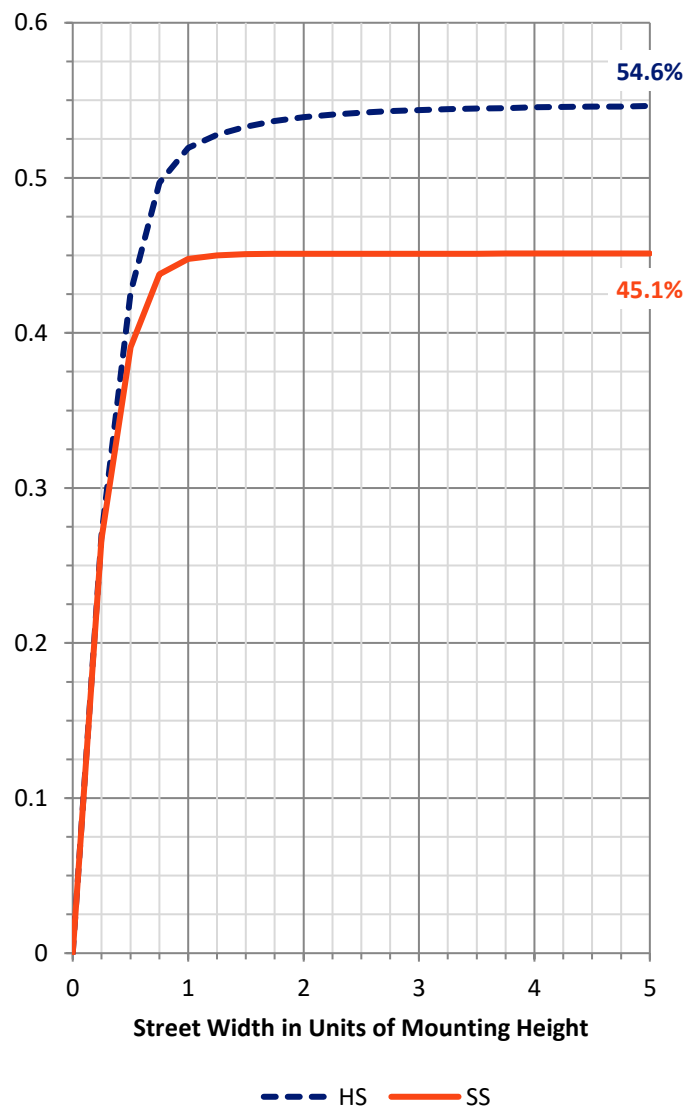
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9143.4	0.0	9143.4
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	7424.3	0.0	7424.3
	% Fixture	44.8	0.0	44.8
Total	Lumens	16567.7	0.0	16567.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2388.7	14.4
10°-20°	5048.5	30.5
20°-30°	4556.6	27.5
30°-40°	3015.4	18.2
40°-50°	903.3	5.5
50°-60°	362.3	2.2
60°-70°	187.6	1.1
70°-80°	81.5	0.5
80°-90°	23.7	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°	16567.7	100.0
0°-180°	16567.7	100.0

Coefficient of Utilization



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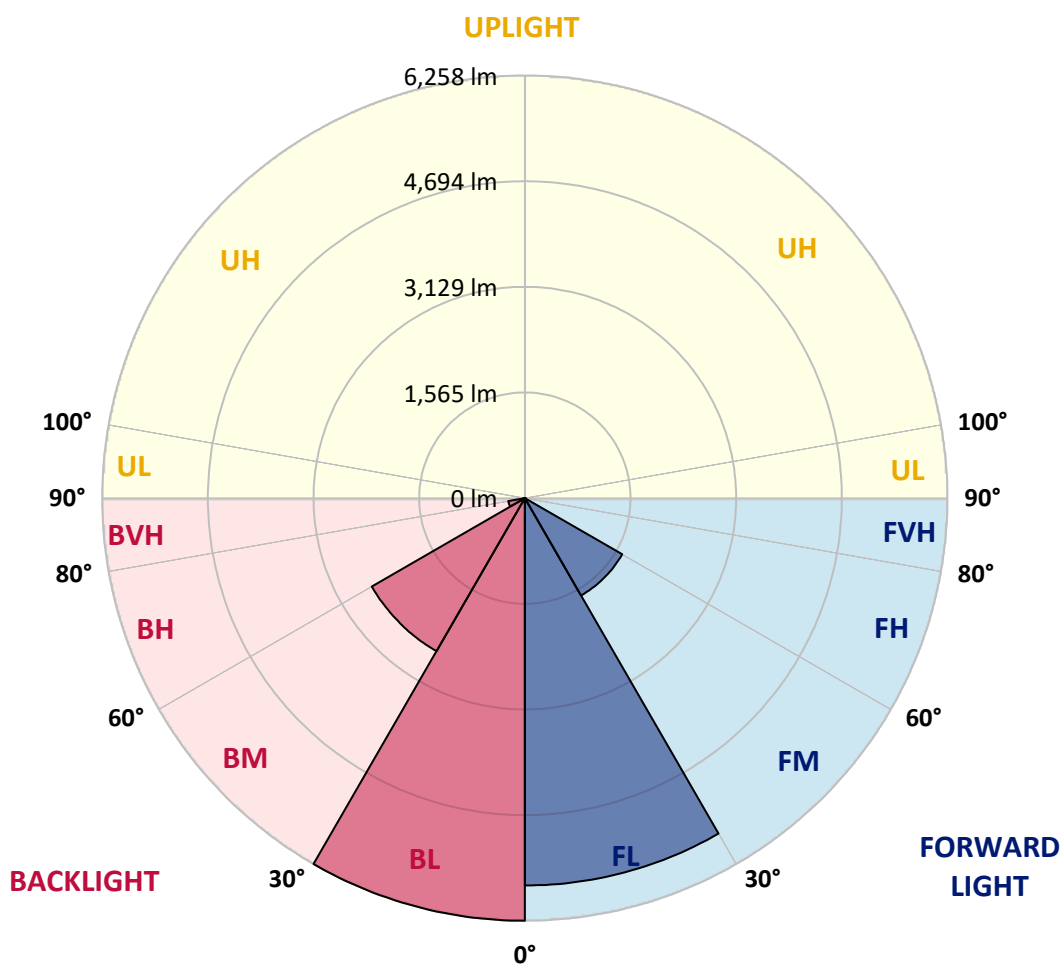
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5735.8	34.6			
FM	(30°-60°)	1664.4	10.0			
FH	(60°-80°)	20.6	0.1			G0/660
FVH	(80°-90°)	3.4	0.0			G0/10
BL	(0°-30°)	6258.0	37.8	B5		
BM	(30°-60°)	2616.6	15.8	B3/5000		
BH	(60°-80°)	248.5	1.5	B1/500		G1/500
BVH	(80°-90°)	20.3	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 I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	26632.5	26632.5	26632.5	26632.5	26632.5	26632.5	26632.5	26632.5	26632.5	26632.5
2.5°	26666.4	26713.8	26476.6	26558.0	26591.8	26602.0	26686.7	26673.2	26696.9	26571.5
5°	26314.0	26222.5	26046.3	26049.7	26039.5	25944.7	26137.8	26124.2	26083.6	25934.5
7.5°	25114.5	25246.7	24914.6	24907.8	24901.1	24785.8	25040.0	24884.1	24918.0	24704.5
10°	23359.3	23376.3	23081.5	23054.4	23078.1	22929.0	23223.8	23162.8	23227.2	23003.6
12.5°	21207.7	21302.6	20977.3	20929.9	21024.8	20814.7	21051.9	21082.4	20987.5	20957.0
15°	16633.5	16884.2	17500.9	18442.8	18686.8	18510.6	18700.4	18697.0	18737.6	18507.2
17.5°	12672.5	12696.2	12550.5	13001.1	15610.2	16457.3	16497.9	16176.0	15932.1	15847.4
20°	11063.0	11144.3	11012.2	11049.4	11466.2	13949.9	14044.7	13560.2	13143.4	13109.6
22.5°	9782.2	9833.0	9738.1	9768.6	9789.0	10080.4	11730.5	11303.6	11103.7	10951.2
25°	8697.9	8697.9	8647.1	8657.3	8636.9	8206.6	9053.7	9541.6	9426.4	9372.2
27.5°	7708.5	7722.1	7657.7	7695.0	7447.6	6753.0	6651.3	8091.4	7969.4	7871.2
30°	6769.9	6814.0	6753.0	6773.3	6234.6	5665.3	5373.9	6749.6	6902.1	6875.0
32.5°	5096.1	5296.0	5787.3	5807.6	5075.8	4638.7	4509.9	5418.0	5997.4	5946.6
35°	3158.0	3147.8	3168.1	4144.0	3893.2	3595.0	3642.5	4093.1	4747.1	4723.4
37.5°	2409.1	2405.7	2443.0	2344.7	2551.4	2727.6	2764.9	2764.9	3466.3	3469.7
40°	1826.3	1812.8	1809.4	1653.5	1385.8	2046.6	1985.6	1934.8	2409.1	2459.9
42.5°	1165.6	1206.3	1175.8	1006.3	904.7	1118.2	1246.9	1206.3	1487.5	1524.8
45°	650.6	650.6	623.5	528.6	525.2	565.9	711.6	664.1	762.4	813.2
47.5°	315.1	308.3	338.8	416.8	433.7	420.2	508.3	528.6	576.0	623.5
50°	254.1	254.1	240.6	216.9	359.2	345.6	376.1	403.2	430.3	471.0
52.5°	213.5	213.5	196.5	183.0	206.7	264.3	267.7	318.5	315.1	372.7
55°	108.4	111.8	159.3	159.3	138.9	216.9	220.2	257.5	264.3	311.7
57.5°	10.2	13.6	20.3	98.3	108.4	118.6	166.0	189.7	220.2	240.6
60°	3.4	3.4	6.8	13.6	64.4	81.3	105.0	125.4	152.5	199.9
62.5°	0.0	0.0	3.4	6.8	13.6	50.8	57.6	64.4	91.5	125.4
65°	0.0	0.0	3.4	3.4	6.8	16.9	23.7	40.7	57.6	77.9
67.5°	0.0	0.0	3.4	3.4	6.8	10.2	13.6	20.3	27.1	50.8
70°	0.0	0.0	3.4	3.4	6.8	10.2	10.2	13.6	16.9	23.7
72.5°	0.0	0.0	3.4	3.4	6.8	13.6	10.2	10.2	13.6	16.9
75°	0.0	0.0	3.4	3.4	6.8	10.2	10.2	10.2	10.2	10.2
77.5°	0.0	0.0	3.4	3.4	6.8	10.2	10.2	10.2	6.8	6.8
80°	0.0	0.0	3.4	3.4	6.8	10.2	13.6	13.6	6.8	6.8
82.5°	0.0	0.0	3.4	6.8	6.8	16.9	20.3	16.9	6.8	3.4
85°	0.0	0.0	3.4	3.4	10.2	16.9	16.9	10.2	6.8	3.4
87.5°	0.0	0.0	0.0	3.4	3.4	6.8	10.2	10.2	3.4	3.4
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°
26632.5	0°	26632.5	26632.5	26632.5	26632.5	26632.5	26632.5	26632.5	26632.5	26632.5
26469.9	2.5°	26456.3	26663.0	26757.9	26659.6	26612.2	26544.4	26446.1	26378.4	26391.9
25853.2	5°	25795.6	26012.4	26087.0	26002.3	25931.1	25893.8	25876.9	25910.8	25998.9
24613.0	7.5°	24606.3	24745.2	24826.5	24785.8	24687.6	24799.4	24829.9	24809.6	24938.3
22935.8	10°	22942.6	23095.1	23020.5	23037.5	22922.3	22979.9	22962.9	23037.5	23166.2
20933.3	12.5°	20797.7	20943.4	20885.8	20875.7	20753.7	20862.1	20794.4	20875.7	21045.1
18412.3	15°	18544.5	18636.0	18598.7	18541.1	18432.7	18469.9	18680.0	18666.5	18741.0
15796.5	17.5°	15728.8	16169.3	16409.8	16460.6	16372.6	16447.1	16596.2	16558.9	16728.3
13038.4	20°	13014.7	13458.6	14051.5	14532.7	14542.8	14553.0	14647.9	14671.6	14817.3
10954.6	22.5°	10907.1	11222.2	11859.3	12496.3	12936.8	13028.2	13018.1	13052.0	13092.6
9297.7	25°	9273.9	9504.3	10087.1	10527.6	11300.2	11557.7	11632.2	11557.7	11581.4
7837.3	27.5°	7925.4	8277.8	8470.9	8941.9	9697.5	10293.8	10270.1	10226.1	10232.8
6820.8	30°	6817.4	7196.9	7481.5	7623.8	8193.1	9053.7	9141.8	9016.4	9019.8
5922.9	32.5°	5885.6	6004.2	6424.3	6539.5	6905.5	7688.2	7989.8	7894.9	7877.9
4736.9	35°	4875.8	4940.2	5133.4	5360.4	5577.2	6170.2	6668.3	6580.2	6624.2
3483.2	37.5°	3469.7	3734.0	3920.3	4106.7	4262.6	4635.3	5235.0	5153.7	5197.7
2466.7	40°	2446.4	2565.0	2886.9	2968.2	3198.6	3371.4	3879.7	3852.6	3906.8
1531.5	42.5°	1504.4	1589.1	1751.8	1829.7	1985.6	2083.8	2382.0	2415.9	2487.1
847.1	45°	853.9	891.1	1003.0	1087.7	1202.9	1243.5	1348.6	1396.0	1436.7
657.3	47.5°	650.6	691.2	765.8	840.3	935.2	969.1	1043.6	1114.8	1152.0
508.3	50°	532.0	569.2	647.2	708.2	803.0	833.5	894.5	972.5	1019.9
386.3	52.5°	403.2	457.4	552.3	616.7	714.9	752.2	809.8	887.8	931.8
318.5	55°	332.1	372.7	457.4	545.5	637.0	687.8	725.1	820.0	867.4
260.9	57.5°	284.6	315.1	369.3	474.4	552.3	626.8	657.3	745.4	792.9
206.7	60°	216.9	264.3	311.7	393.0	481.1	559.1	593.0	670.9	708.2
149.1	62.5°	179.6	210.1	271.1	315.1	413.4	494.7	528.6	599.7	626.8
98.3	65°	125.4	169.4	227.0	254.1	345.6	423.5	471.0	525.2	552.3
57.6	67.5°	74.5	125.4	179.6	216.9	281.2	359.2	410.0	460.8	484.5
33.9	70°	47.4	98.3	142.3	183.0	220.2	294.8	355.8	399.8	389.7
20.3	72.5°	27.1	61.0	105.0	149.1	183.0	247.4	305.0	338.8	240.6
13.6	75°	16.9	44.0	88.1	122.0	149.1	196.5	250.7	257.5	149.1
6.8	77.5°	13.6	33.9	67.8	98.3	101.7	145.7	176.2	199.9	111.8
6.8	80°	6.8	27.1	57.6	81.3	64.4	101.7	135.5	155.9	88.1
3.4	82.5°	6.8	16.9	44.0	57.6	47.4	77.9	98.3	111.8	74.5
3.4	85°	3.4	13.6	23.7	33.9	33.9	50.8	44.0	54.2	47.4
3.4	87.5°	3.4	6.8	13.6	16.9	13.6	20.3	23.7	23.7	20.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
26632.5
26574.9
26181.9
25067.1
23217.0
21075.6
18758.0
16701.2
14786.8
13018.1
11544.1
10243.0
9023.2
7918.6
6664.9
5235.0
3927.1
2568.4
1433.3
1169.0
1040.2
962.3
881.0
813.2
714.9
630.2
552.3
481.1
359.2
213.5
138.9
111.8
91.5
81.3
47.4
16.9
0.0

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