

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: P637767

Luminaire Tested: **IFLD-M-SA4A-830-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637767
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-830-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (64) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13784.1 lumens
Efficiency: N/A
Efficacy: 107.2 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): 128.6
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



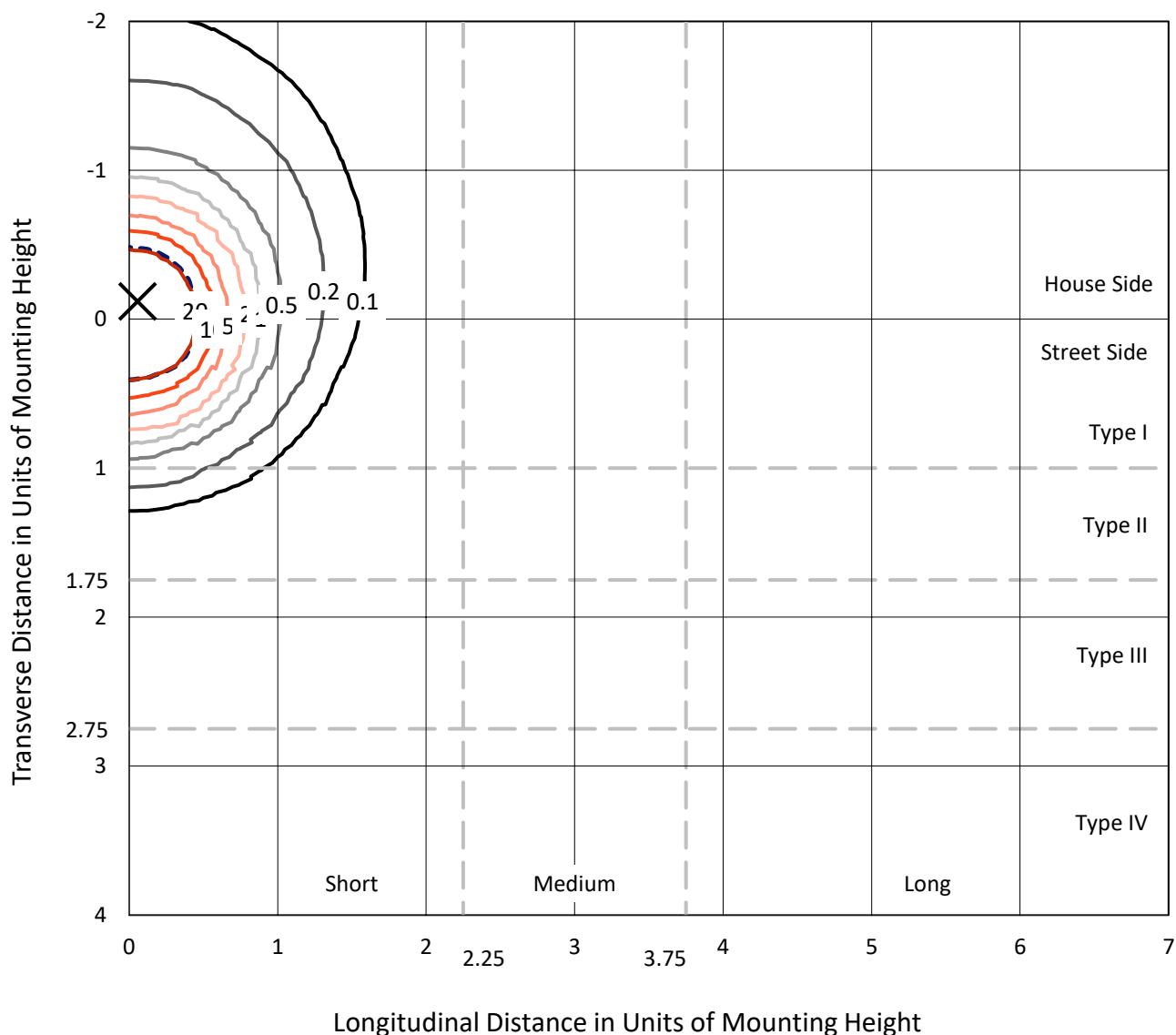
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

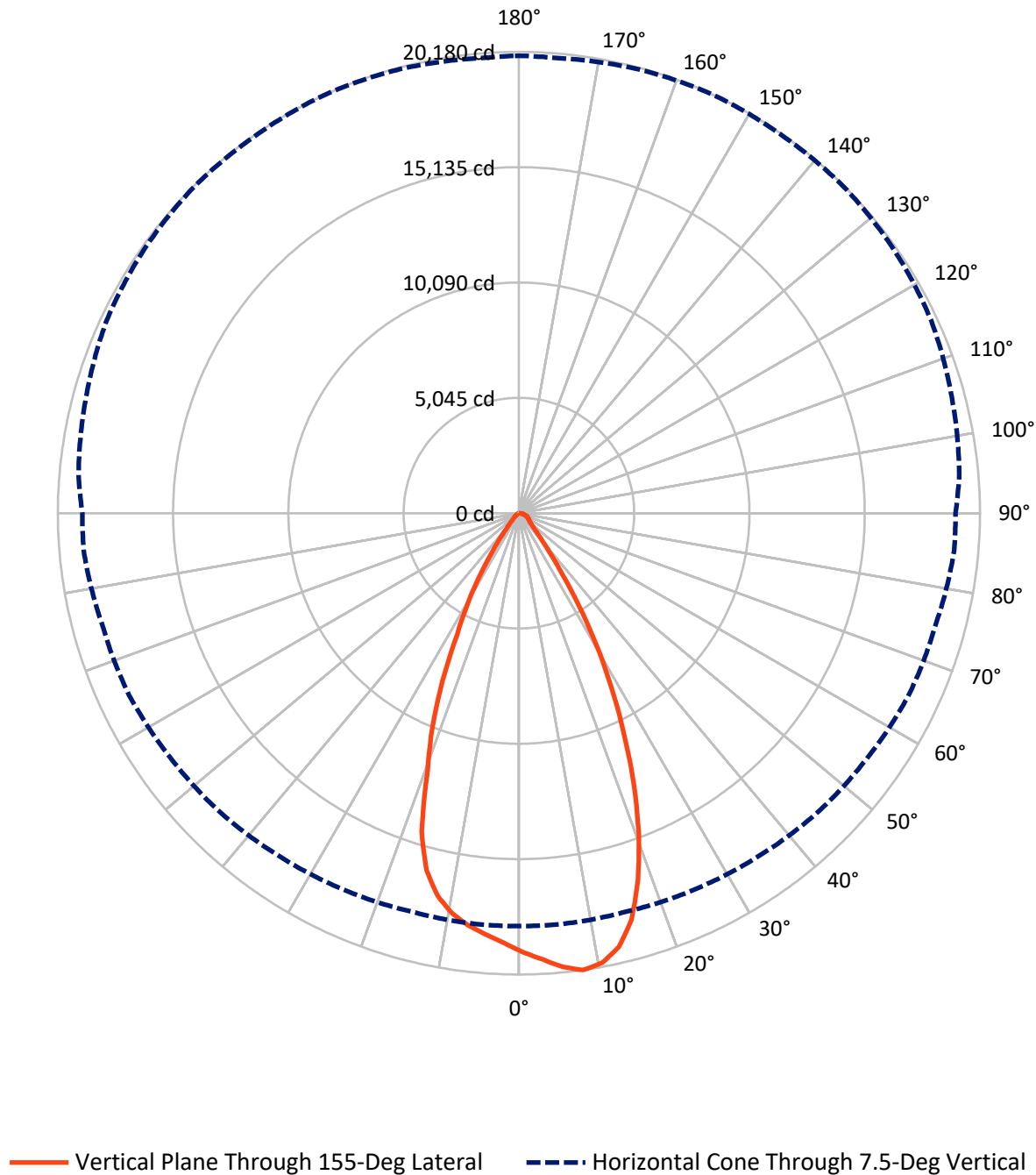


Based on 20 foot mounting height. Maximum calculated value = 48.8 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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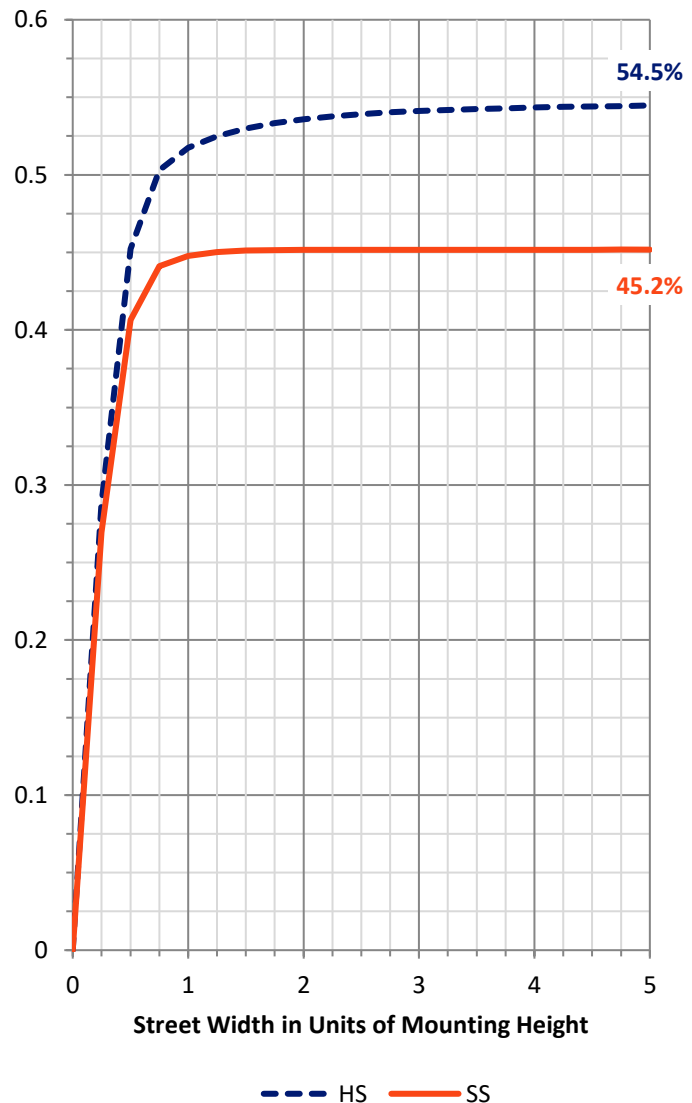
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7609.3	0.0	7609.3
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	6174.8	0.0	6174.8
	% Fixture	44.8	0.0	44.8
Total	Lumens	13784.1	0.0	13784.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1831.1	13.3
10°-20°	4747.9	34.4
20°-30°	4350.4	31.6
30°-40°	1757.6	12.8
40°-50°	515.6	3.7
50°-60°	288.3	2.1
60°-70°	175.1	1.3
70°-80°	89.0	0.6
80°-90°	29.1	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°	13784.1	100.0
0°-180°	13784.1	100.0

Coefficient of Utilization



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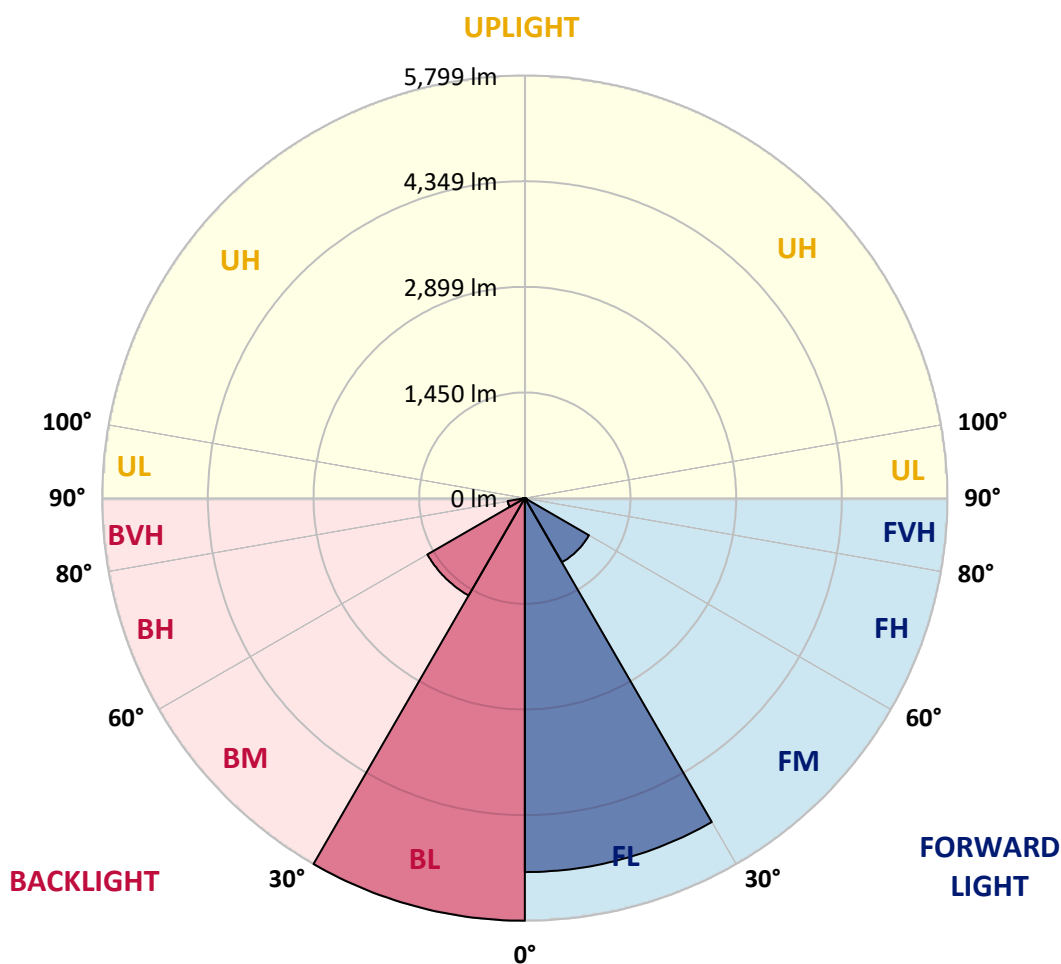
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5130.8	37.2			
FM	(30°-60°)	1016.8	7.4			
FH	(60°-80°)	24.6	0.2			G0/660
FVH	(80°-90°)	2.5	0.0			G0/10
BL	(0°-30°)	5798.7	42.1	B5		
BM	(30°-60°)	1544.6	11.2	B2/2500		
BH	(60°-80°)	239.4	1.7	B1/500		G1/500
BVH	(80°-90°)	26.6	0.2			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°	19202.3	19202.3	19202.3	19202.3	19202.3	19202.3	19202.3	19202.3	19202.3	19202.3
2.5°	18785.8	18849.4	18722.2	18806.5	18871.7	19027.4	19040.1	19094.2	19113.2	19254.7
5°	18429.8	18479.1	18375.7	18488.6	18580.8	18719.1	18825.6	18975.0	19057.6	19224.5
7.5°	18059.4	18070.6	18049.9	18169.1	18307.4	18498.1	18630.1	18825.6	18876.4	19114.8
10°	17611.2	17530.1	17569.9	17744.7	17951.4	18243.8	18334.4	18529.9	18620.5	18863.7
12.5°	16896.0	16937.3	16888.0	17110.5	17282.2	17614.4	17709.8	17906.8	18080.1	18294.7
15°	15888.2	15864.4	15964.5	16137.8	16323.7	16587.6	16741.8	16956.4	17088.3	17310.8
17.5°	13623.3	13704.3	14117.6	14551.5	14933.0	15241.3	15425.7	15603.7	15699.1	15940.7
20°	11765.2	11663.5	11719.1	11963.9	13049.5	13521.5	13715.4	13758.4	13798.1	13988.8
22.5°	9687.8	9654.4	9840.3	10115.3	10372.8	11461.6	11725.4	11625.3	11708.0	11887.6
25°	7193.9	7362.4	7527.7	8055.4	8389.2	8923.2	9423.9	9468.4	9498.6	9611.5
27.5°	5855.6	5796.8	5793.6	5941.4	6434.1	6879.2	7305.2	7403.7	7386.2	7494.3
30°	4603.1	4584.0	4517.2	4552.2	4502.9	4898.7	5099.0	5504.3	5482.0	5485.2
32.5°	3320.4	3248.9	3221.8	3274.3	3223.4	3186.9	3361.7	3819.5	3811.5	3843.3
35°	2009.1	1999.5	2021.8	2067.9	1966.2	1963.0	1999.5	2430.3	2482.7	2533.6
37.5°	1109.4	1099.9	1117.4	1287.5	1254.1	1223.9	1233.4	1460.7	1611.7	1649.9
40°	731.2	729.6	742.3	772.5	829.7	818.6	823.3	925.1	1068.1	1101.5
42.5°	489.6	491.1	499.1	534.1	542.0	599.2	589.7	613.5	747.0	775.7
45°	391.0	389.4	394.2	378.3	387.8	446.6	453.0	454.6	569.0	586.5
47.5°	308.4	308.4	313.1	292.5	287.7	324.2	357.6	362.4	454.6	478.4
50°	216.2	216.2	240.0	230.5	241.6	252.7	289.3	294.0	371.9	397.4
52.5°	158.9	162.1	165.3	166.9	203.5	201.9	233.7	255.9	281.3	325.8
55°	120.8	124.0	116.0	124.0	151.0	168.5	174.8	206.6	224.1	273.4
57.5°	79.5	87.4	81.1	95.4	101.7	130.3	139.9	170.1	181.2	224.1
60°	11.1	12.7	20.7	66.8	71.5	85.8	108.1	135.1	146.2	182.8
62.5°	1.6	1.6	4.8	11.1	47.7	57.2	81.1	93.8	108.1	136.7
65°	0.0	0.0	1.6	3.2	9.5	33.4	41.3	50.9	74.7	98.5
67.5°	0.0	0.0	1.6	3.2	4.8	11.1	17.5	33.4	42.9	68.3
70°	0.0	0.0	1.6	3.2	4.8	6.4	9.5	12.7	25.4	39.7
72.5°	0.0	0.0	1.6	3.2	4.8	6.4	7.9	9.5	11.1	25.4
75°	0.0	0.0	1.6	3.2	4.8	7.9	9.5	9.5	9.5	11.1
77.5°	0.0	0.0	1.6	3.2	6.4	9.5	11.1	9.5	7.9	7.9
80°	0.0	0.0	1.6	4.8	7.9	11.1	12.7	9.5	6.4	4.8
82.5°	0.0	0.0	1.6	4.8	7.9	11.1	12.7	11.1	6.4	4.8
85°	0.0	0.0	1.6	4.8	6.4	7.9	12.7	11.1	6.4	3.2
87.5°	0.0	0.0	0.0	1.6	1.6	3.2	6.4	4.8	3.2	1.6
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°
19202.3	0°	19202.3	19202.3	19202.3	19202.3	19202.3	19202.3	19202.3	19202.3	19202.3
19251.5	2.5°	19394.6	19466.1	19591.7	19626.6	19734.7	19610.8	19542.4	19548.8	19400.9
19203.8	5°	19394.6	19558.3	19777.6	19882.5	19962.0	19955.7	19938.2	19893.7	19785.6
19108.5	7.5°	19343.7	19610.8	19912.7	20052.6	20148.0	20140.0	20179.8	20108.3	19976.3
18938.4	10°	19180.0	19412.1	19784.0	19898.4	20052.6	20055.8	20006.5	20020.8	19785.6
18316.9	12.5°	18665.0	18846.2	19172.1	19302.4	19490.0	19520.2	19466.1	19445.4	19222.9
17298.1	15°	17668.4	17773.3	18100.8	18231.1	18417.1	18391.6	18445.7	18423.4	18227.9
15921.6	17.5°	16210.9	16244.3	16587.6	16697.3	16872.1	16940.5	16859.4	16962.7	16794.2
14022.2	20°	14120.8	14300.4	14686.6	14855.1	14956.8	15079.2	14972.7	15088.7	14891.6
11717.5	22.5°	12000.4	12106.9	12456.6	12699.8	12888.9	12912.8	12873.0	12954.1	12688.7
9686.2	25°	9684.6	9861.0	10137.6	10455.5	10641.4	10755.9	10652.6	10705.0	10662.1
7511.8	27.5°	7638.9	7796.3	8004.5	8241.3	8521.1	8670.5	8587.8	8676.9	8467.1
5601.3	30°	5606.0	5685.5	5920.7	6171.9	6478.6	6659.8	6667.8	6758.4	6634.4
3924.4	32.5°	3953.0	4022.9	4167.6	4334.5	4626.9	4828.8	4797.0	4809.7	4733.4
2557.4	35°	2570.2	2663.9	2767.2	2846.7	3023.2	3245.7	3228.2	3212.3	3159.8
1681.6	37.5°	1718.2	1754.8	1812.0	1883.5	1998.0	2137.8	2183.9	2126.7	2104.4
1134.9	40°	1161.9	1225.5	1263.6	1317.7	1371.7	1489.3	1521.1	1510.0	1487.7
794.7	42.5°	824.9	874.2	921.9	974.3	1002.9	1076.1	1138.1	1120.6	1111.0
604.0	45°	626.2	670.8	726.4	766.1	794.7	837.6	896.5	902.8	888.5
484.8	47.5°	502.3	542.0	586.5	635.8	669.2	696.2	747.0	766.1	756.6
408.5	50°	426.0	456.2	499.1	548.4	584.9	608.8	653.3	673.9	667.6
341.7	52.5°	362.4	399.0	438.7	480.0	524.5	548.4	589.7	619.9	615.1
282.9	55°	300.4	348.1	389.4	430.7	481.6	505.4	542.0	581.7	573.8
240.0	57.5°	262.3	302.0	344.9	384.6	438.7	470.5	503.9	545.2	543.6
197.1	60°	219.3	259.1	306.8	340.1	397.4	441.9	472.1	515.0	518.2
149.4	62.5°	174.8	224.1	260.7	306.8	359.2	411.7	440.3	483.2	499.1
114.4	65°	130.3	184.4	225.7	271.8	321.1	379.9	405.3	448.2	464.1
82.7	67.5°	97.0	138.3	190.7	230.5	286.1	337.0	367.2	406.9	418.0
49.3	70°	73.1	106.5	158.9	193.9	251.1	292.5	322.7	352.9	367.2
33.4	72.5°	42.9	79.5	125.6	166.9	216.2	251.1	273.4	297.2	306.8
15.9	75°	30.2	60.4	98.5	138.3	174.8	203.5	224.1	244.8	254.3
7.9	77.5°	15.9	44.5	77.9	111.3	136.7	160.5	181.2	197.1	203.5
6.4	80°	9.5	31.8	63.6	87.4	104.9	125.6	146.2	157.4	155.8
4.8	82.5°	6.4	25.4	46.1	63.6	76.3	92.2	106.5	114.4	114.4
3.2	85°	4.8	17.5	31.8	49.3	50.9	63.6	66.8	74.7	76.3
3.2	87.5°	3.2	11.1	17.5	28.6	27.0	33.4	35.0	39.7	42.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
19202.3
19281.7
19820.6
20006.5
19717.2
19172.1
18289.9
16752.9
14875.8
12652.1
10635.1
8521.1
6656.7
4776.3
3113.8
2099.7
1490.9
1103.1
886.9
751.8
666.0
611.9
573.8
542.0
518.2
497.5
462.5
418.0
364.0
303.6
251.1
201.9
154.2
112.9
74.7
41.3
0.0

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