

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: P637641

Luminaire Tested: **IFLD-S-SA3A-740-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637641
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-740-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12924 lumens
Efficiency: N/A
Efficacy: 136.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - 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



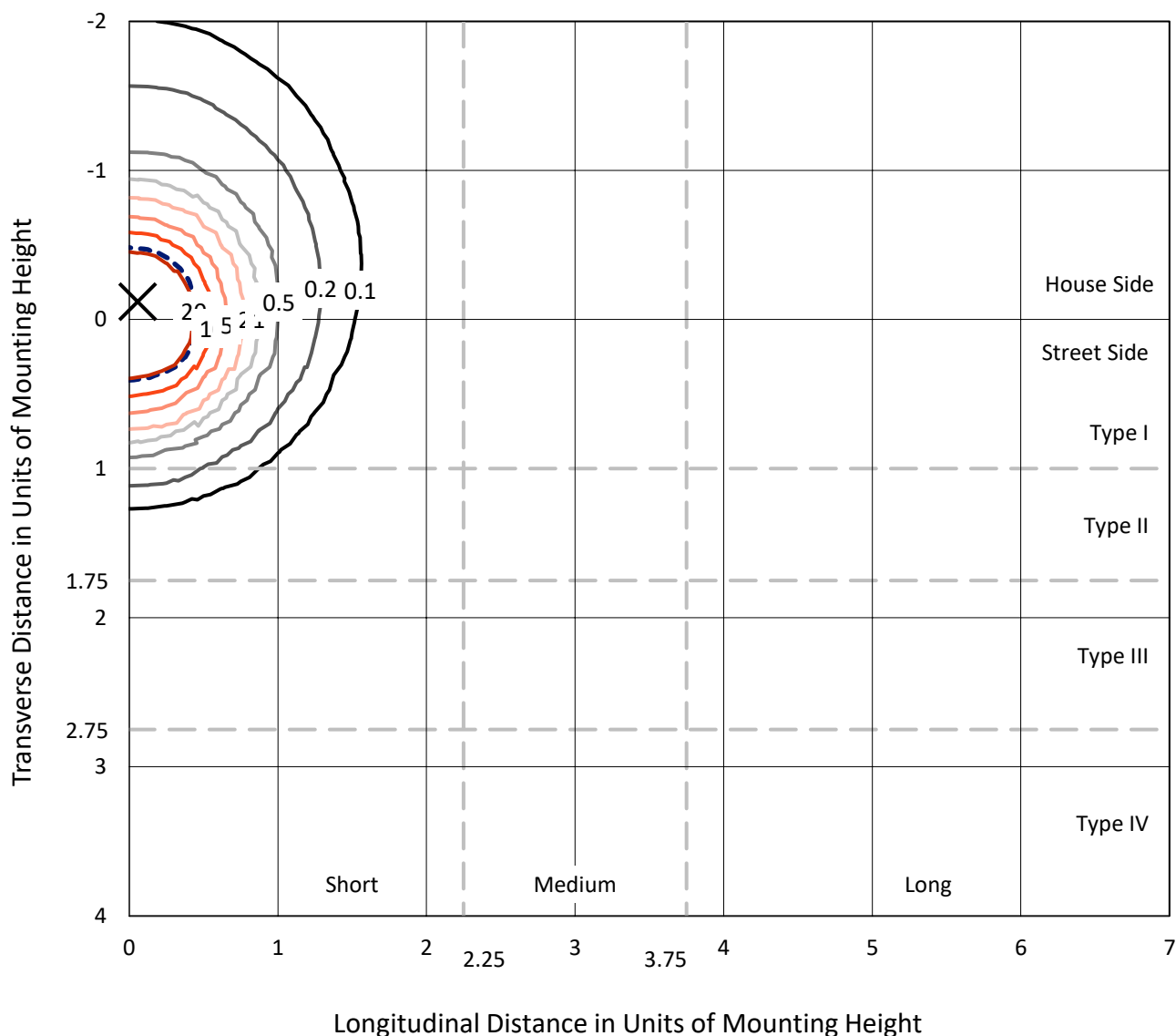
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

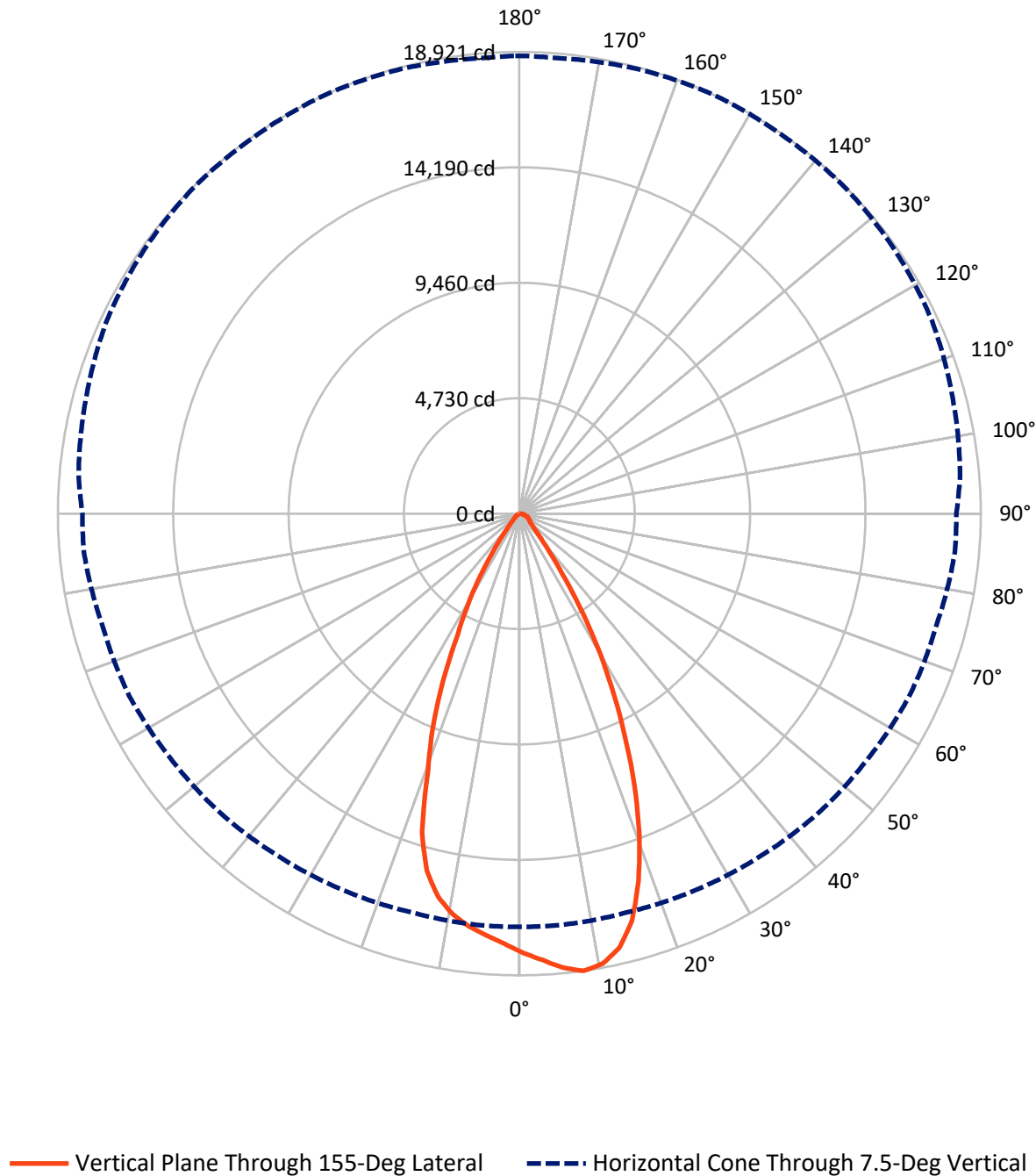


Based on 20 foot mounting height. Maximum calculated value = 45.8 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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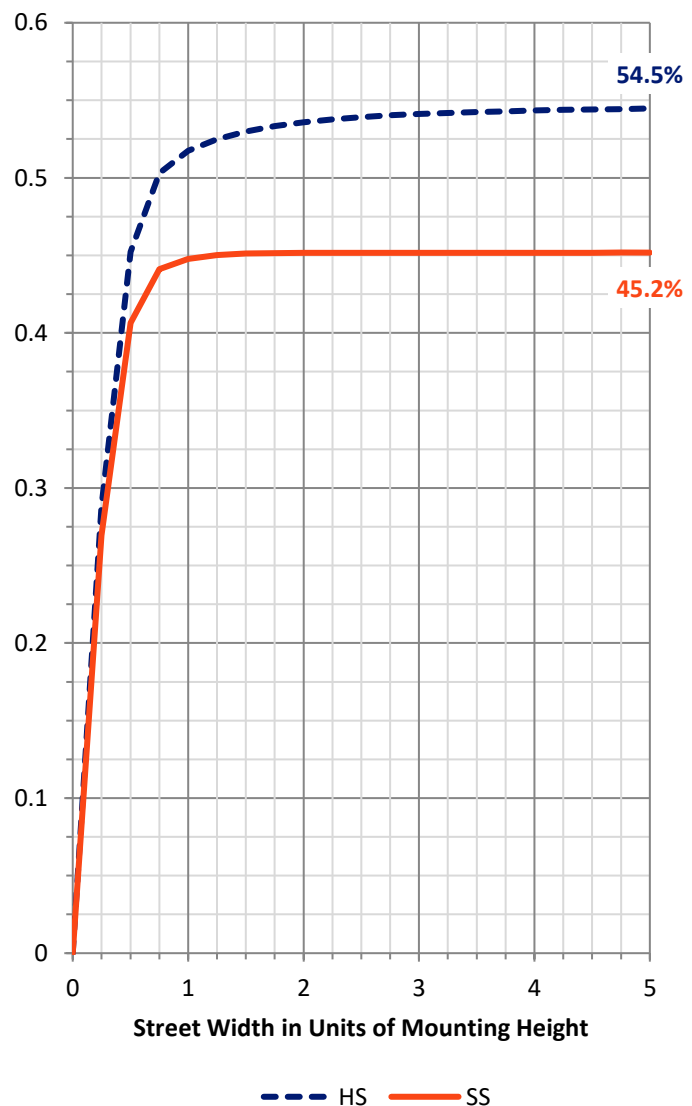
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7134.5	0.0	7134.5
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	5789.5	0.0	5789.5
	% Fixture	44.8	0.0	44.8
Total	Lumens	12924.0	0.0	12924.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1716.8	13.3
10°-20°	4451.7	34.4
20°-30°	4079.0	31.6
30°-40°	1647.9	12.8
40°-50°	483.4	3.7
50°-60°	270.3	2.1
60°-70°	164.2	1.3
70°-80°	83.4	0.6
80°-90°	27.3	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°	12924.0	100.0
0°-180°	12924.0	100.0

Coefficient of Utilization



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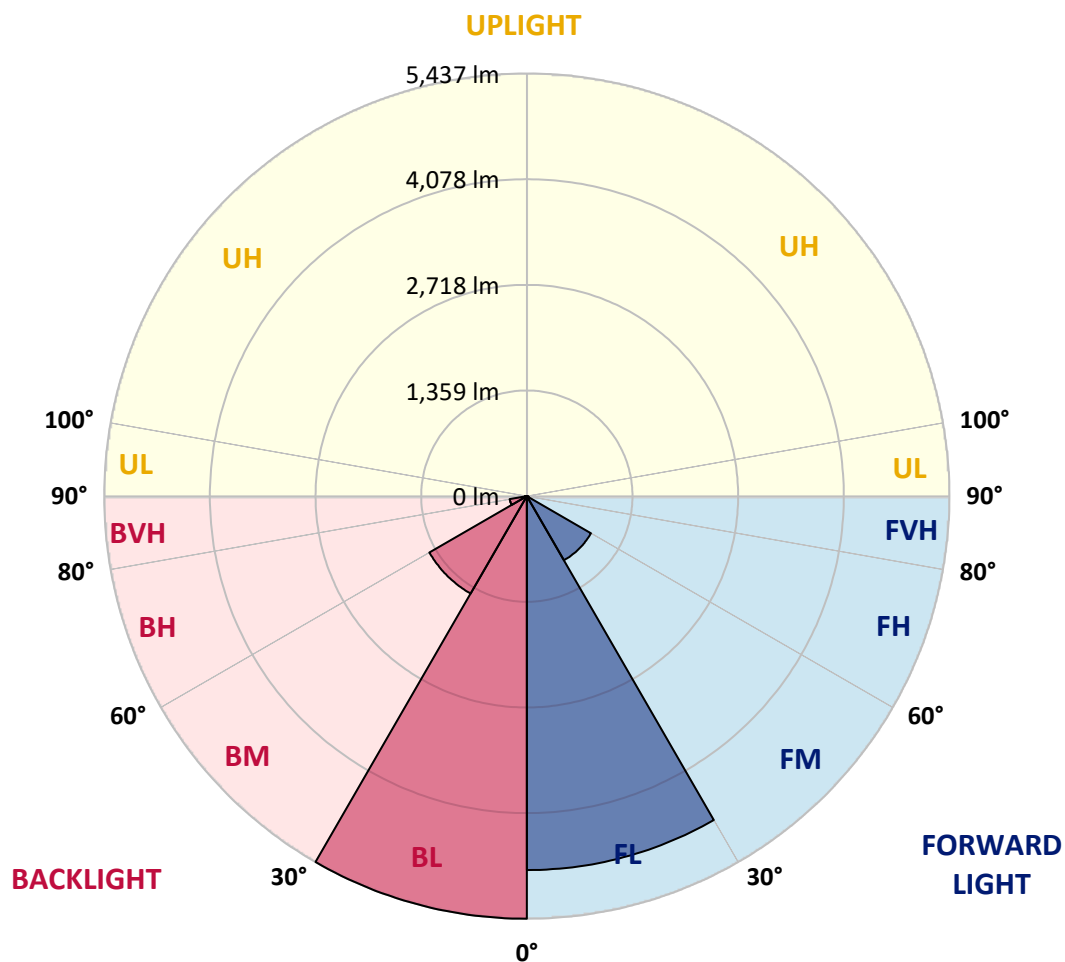
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4810.6	37.2			
FM	(30°-60°)	953.4	7.4			
FH	(60°-80°)	23.1	0.2			G0/660
FVH	(80°-90°)	2.4	0.0			G0/10
BL	(0°-30°)	5436.9	42.1	B5		
BM	(30°-60°)	1448.2	11.2	B2/2500		
BH	(60°-80°)	224.5	1.7	B1/500		G1/500
BVH	(80°-90°)	24.9	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°	18004.1	18004.1	18004.1	18004.1	18004.1	18004.1	18004.1	18004.1	18004.1	18004.1
2.5°	17613.6	17673.2	17554.0	17633.0	17694.1	17840.1	17852.1	17902.7	17920.6	18053.2
5°	17279.8	17326.0	17229.1	17334.9	17421.4	17551.0	17650.9	17791.0	17868.5	18024.9
7.5°	16932.6	16943.0	16923.6	17035.4	17165.0	17343.9	17467.6	17650.9	17698.6	17922.1
10°	16512.3	16436.3	16473.6	16637.5	16831.2	17105.4	17190.4	17373.7	17458.6	17686.6
12.5°	15841.7	15880.4	15834.2	16042.9	16203.8	16515.3	16604.7	16789.5	16951.9	17153.1
15°	14896.8	14874.5	14968.4	15130.8	15305.2	15552.6	15697.1	15898.3	16022.0	16230.6
17.5°	12773.2	12849.2	13236.7	13643.5	14001.2	14290.3	14463.2	14630.1	14719.5	14946.0
20°	11031.1	10935.7	10987.8	11217.3	12235.2	12677.8	12859.6	12899.9	12937.1	13116.0
22.5°	9083.3	9052.0	9226.3	9484.1	9725.6	10746.4	10993.8	10899.9	10977.4	11145.8
25°	6745.0	6903.0	7058.0	7552.7	7865.7	8366.4	8835.9	8877.6	8905.9	9011.7
27.5°	5490.2	5435.1	5432.1	5570.7	6032.7	6449.9	6849.3	6941.7	6925.3	7026.7
30°	4315.8	4298.0	4235.4	4268.2	4222.0	4593.0	4780.8	5160.8	5140.0	5143.0
32.5°	3113.2	3046.1	3020.8	3070.0	3022.3	2988.0	3151.9	3581.1	3573.7	3603.5
35°	1883.7	1874.8	1895.6	1938.9	1843.5	1840.5	1874.8	2278.6	2327.8	2375.5
37.5°	1040.2	1031.3	1047.7	1207.1	1175.8	1147.5	1156.5	1369.6	1511.1	1546.9
40°	685.5	684.0	696.0	724.3	777.9	767.5	772.0	867.3	1001.5	1032.8
42.5°	459.0	460.5	467.9	500.7	508.2	561.8	552.9	575.2	700.4	727.3
45°	366.6	365.1	369.6	354.7	363.6	418.8	424.7	426.2	533.5	549.9
47.5°	289.1	289.1	293.6	274.2	269.7	304.0	335.3	339.8	426.2	448.6
50°	202.7	202.7	225.0	216.1	226.5	237.0	271.2	275.7	348.7	372.6
52.5°	149.0	152.0	155.0	156.5	190.8	189.3	219.1	239.9	263.8	305.5
55°	113.3	116.2	108.8	116.2	141.6	158.0	163.9	193.7	210.1	256.3
57.5°	74.5	82.0	76.0	89.4	95.4	122.2	131.1	159.5	169.9	210.1
60°	10.4	11.9	19.4	62.6	67.1	80.5	101.3	126.7	137.1	171.4
62.5°	1.5	1.5	4.5	10.4	44.7	53.7	76.0	87.9	101.3	128.2
65°	0.0	0.0	1.5	3.0	8.9	31.3	38.7	47.7	70.0	92.4
67.5°	0.0	0.0	1.5	3.0	4.5	10.4	16.4	31.3	40.2	64.1
70°	0.0	0.0	1.5	3.0	4.5	6.0	8.9	11.9	23.8	37.3
72.5°	0.0	0.0	1.5	3.0	4.5	6.0	7.5	8.9	10.4	23.8
75°	0.0	0.0	1.5	3.0	4.5	7.5	8.9	8.9	8.9	10.4
77.5°	0.0	0.0	1.5	3.0	6.0	8.9	10.4	8.9	7.5	7.5
80°	0.0	0.0	1.5	4.5	7.5	10.4	11.9	8.9	6.0	4.5
82.5°	0.0	0.0	1.5	4.5	7.5	10.4	11.9	10.4	6.0	4.5
85°	0.0	0.0	1.5	4.5	6.0	7.5	11.9	10.4	6.0	3.0
87.5°	0.0	0.0	0.0	1.5	1.5	3.0	6.0	4.5	3.0	1.5
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°
18004.1	0°	18004.1	18004.1	18004.1	18004.1	18004.1	18004.1	18004.1	18004.1	18004.1
18050.3	2.5°	18184.4	18251.5	18369.2	18402.0	18503.3	18387.1	18323.0	18328.9	18190.4
18005.6	5°	18184.4	18337.9	18543.6	18641.9	18716.4	18710.5	18694.1	18652.3	18551.0
17916.1	7.5°	18136.7	18387.1	18670.2	18801.4	18890.8	18883.3	18920.6	18853.5	18729.8
17756.7	10°	17983.2	18200.8	18549.5	18656.8	18801.4	18804.3	18758.2	18771.6	18551.0
17174.0	12.5°	17500.4	17670.2	17975.8	18098.0	18273.8	18302.1	18251.5	18232.1	18023.4
16218.7	15°	16565.9	16664.3	16971.3	17093.5	17267.9	17244.0	17294.7	17273.8	17090.5
14928.1	17.5°	15199.4	15230.7	15552.6	15655.4	15819.3	15883.4	15807.4	15904.3	15746.3
13147.2	20°	13239.6	13408.0	13770.2	13928.2	14023.5	14138.3	14038.4	14147.2	13962.4
10986.3	22.5°	11251.6	11351.5	11679.3	11907.3	12084.7	12107.0	12069.8	12145.8	11896.9
9081.8	25°	9080.3	9245.7	9505.0	9803.1	9977.4	10084.7	9987.9	10037.0	9996.8
7043.1	27.5°	7162.3	7309.8	7505.0	7727.1	7989.4	8129.5	8052.0	8135.4	7938.7
5251.7	30°	5256.2	5330.7	5551.3	5786.8	6074.4	6244.3	6251.7	6336.7	6220.4
3679.5	32.5°	3706.3	3771.9	3907.5	4064.0	4338.2	4527.5	4497.7	4509.6	4438.1
2397.9	35°	2409.8	2497.7	2594.6	2669.1	2834.5	3043.2	3026.8	3011.9	2962.7
1576.7	37.5°	1611.0	1645.3	1698.9	1766.0	1873.3	2004.4	2047.6	1994.0	1973.1
1064.1	40°	1089.4	1149.0	1184.8	1235.4	1286.1	1396.4	1426.2	1415.8	1394.9
745.1	42.5°	773.5	819.7	864.4	913.5	940.4	1008.9	1067.0	1050.6	1041.7
566.3	45°	587.2	628.9	681.1	718.3	745.1	785.4	840.5	846.5	833.1
454.5	47.5°	470.9	508.2	549.9	596.1	627.4	652.7	700.4	718.3	709.4
383.0	50°	399.4	427.7	467.9	514.1	548.4	570.8	612.5	631.9	625.9
320.4	52.5°	339.8	374.1	411.3	450.1	491.8	514.1	552.9	581.2	576.7
265.3	55°	281.7	326.4	365.1	403.9	451.6	473.9	508.2	545.4	538.0
225.0	57.5°	245.9	283.2	323.4	360.6	411.3	441.1	472.4	511.2	509.7
184.8	60°	205.7	242.9	287.6	318.9	372.6	414.3	442.6	482.9	485.8
140.1	62.5°	163.9	210.1	244.4	287.6	336.8	386.0	412.8	453.0	467.9
107.3	65°	122.2	172.9	211.6	254.8	301.0	356.2	380.0	420.3	435.2
77.5	67.5°	90.9	129.7	178.8	216.1	268.3	315.9	344.3	381.5	391.9
46.2	70°	68.6	99.8	149.0	181.8	235.5	274.2	302.5	330.8	344.3
31.3	72.5°	40.2	74.5	117.7	156.5	202.7	235.5	256.3	278.7	287.6
14.9	75°	28.3	56.6	92.4	129.7	163.9	190.8	210.1	229.5	238.4
7.5	77.5°	14.9	41.7	73.0	104.3	128.2	150.5	169.9	184.8	190.8
6.0	80°	8.9	29.8	59.6	82.0	98.4	117.7	137.1	147.5	146.0
4.5	82.5°	6.0	23.8	43.2	59.6	71.5	86.4	99.8	107.3	107.3
3.0	85°	4.5	16.4	29.8	46.2	47.7	59.6	62.6	70.0	71.5
3.0	87.5°	3.0	10.4	16.4	26.8	25.3	31.3	32.8	37.3	40.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
18004.1
18078.6
18583.8
18758.2
18486.9
17975.8
17148.6
15707.5
13947.5
11862.6
9971.5
7989.4
6241.3
4478.3
2919.5
1968.7
1397.9
1034.3
831.6
704.9
624.4
573.8
538.0
508.2
485.8
466.5
433.7
391.9
341.3
284.6
235.5
189.3
144.6
105.8
70.0
38.7
0.0

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