

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: P637607

Luminaire Tested: **IFLD-S-SA2A-735-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637607
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-735-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8553.4 lumens
Efficiency: N/A
Efficacy: 134.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

Input Watts (W): 63.8
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

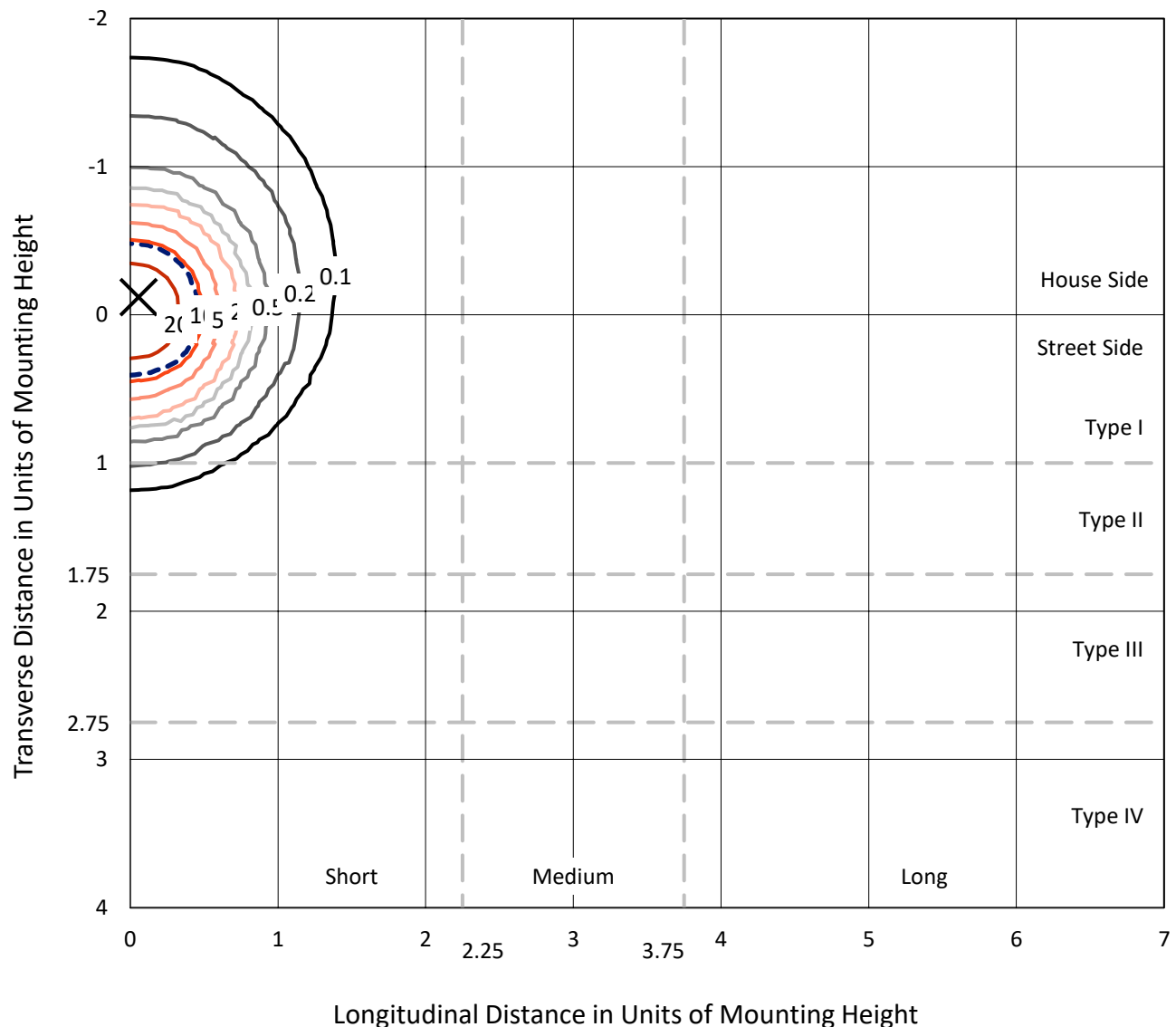


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd



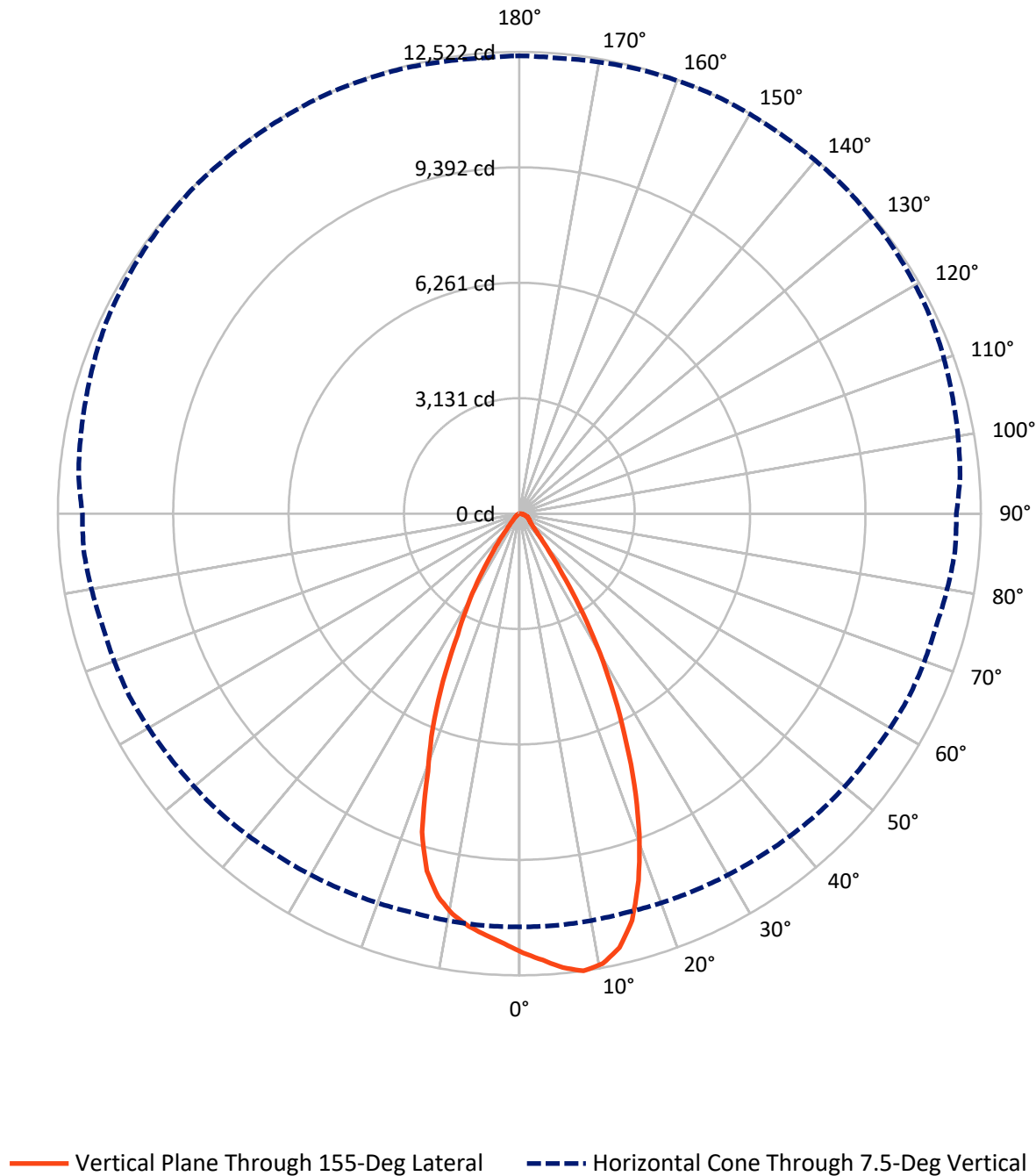
Based on 20 foot mounting height. Maximum calculated value = 30.3 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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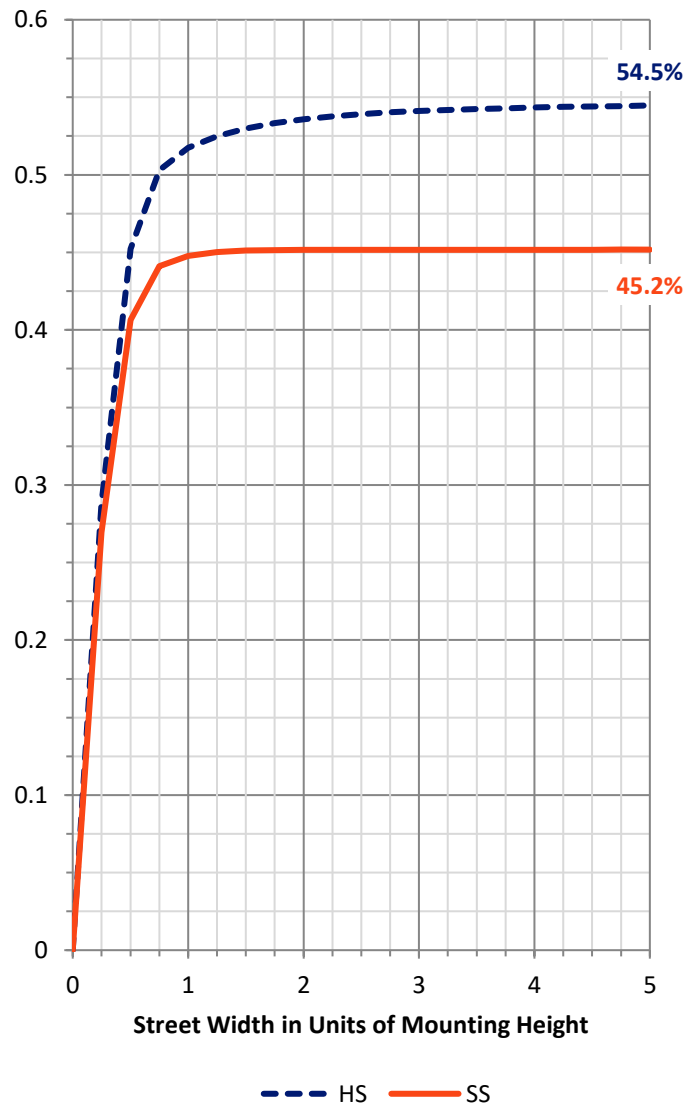
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4721.8	0.0	4721.8
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	3831.6	0.0	3831.6
	% Fixture	44.8	0.0	44.8
Total	Lumens	8553.4	0.0	8553.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1136.2	13.3
10°-20°	2946.2	34.4
20°-30°	2699.6	31.6
30°-40°	1090.6	12.8
40°-50°	319.9	3.7
50°-60°	178.9	2.1
60°-70°	108.7	1.3
70°-80°	55.2	0.6
80°-90°	18.1	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°	8553.4	100.0
0°-180°	8553.4	100.0

Coefficient of Utilization



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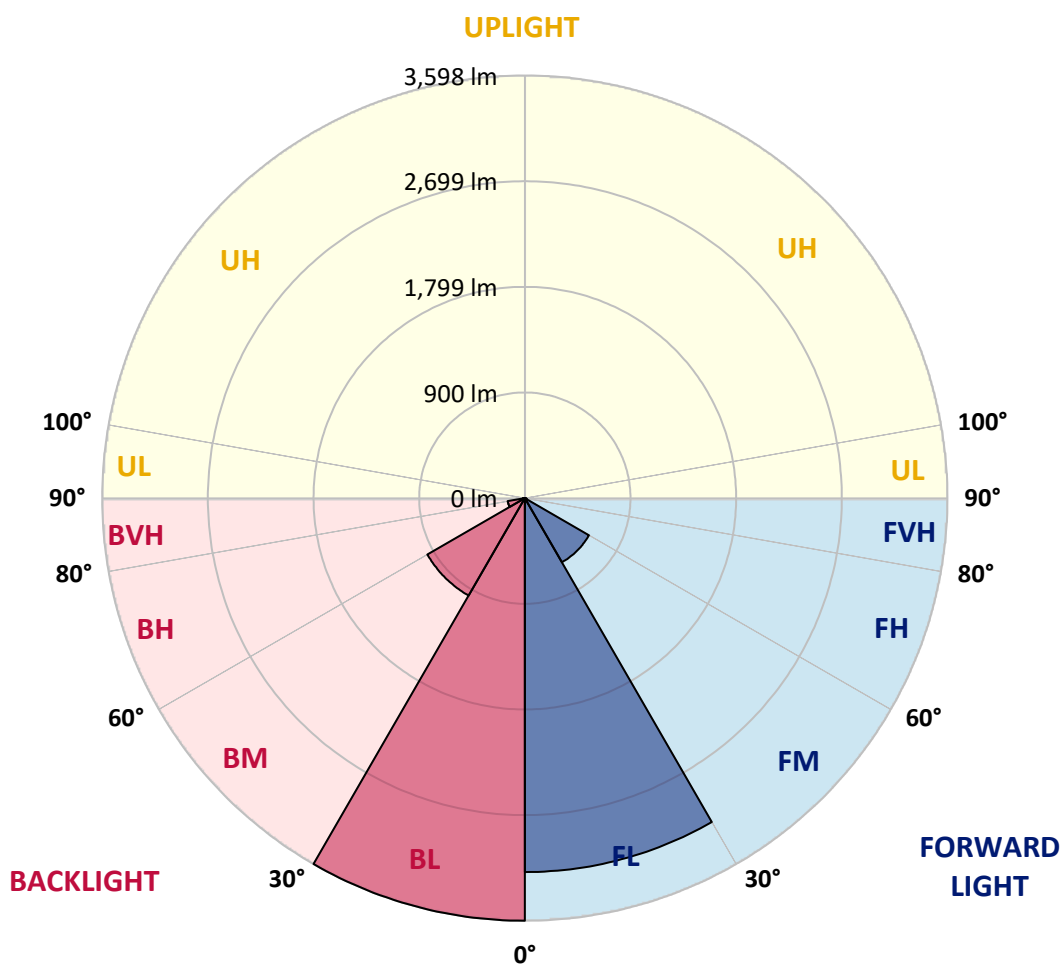
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3183.8	37.2			
FM	(30°-60°)	631.0	7.4			
FH	(60°-80°)	15.3	0.2			G0/660
FVH	(80°-90°)	1.6	0.0			G0/10
BL	(0°-30°)	3598.2	42.1	B4/5000		
BM	(30°-60°)	958.5	11.2	B1/1000		
BH	(60°-80°)	148.6	1.7	B1/500		G1/500
BVH	(80°-90°)	16.5	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°	11915.5	11915.5	11915.5	11915.5	11915.5	11915.5	11915.5	11915.5	11915.5	11915.5
2.5°	11657.1	11696.6	11617.7	11670.0	11710.4	11807.1	11814.9	11848.5	11860.3	11948.1
5°	11436.2	11466.8	11402.7	11472.7	11529.9	11615.7	11681.8	11774.5	11825.8	11929.4
7.5°	11206.4	11213.3	11200.5	11274.4	11360.3	11478.6	11560.5	11681.8	11713.4	11861.3
10°	10928.3	10878.0	10902.6	11011.1	11139.3	11320.8	11377.0	11498.3	11554.6	11705.5
12.5°	10484.4	10510.1	10479.5	10617.6	10724.1	10930.2	10989.4	11111.7	11219.2	11352.4
15°	9859.1	9844.3	9906.4	10014.0	10129.3	10293.1	10388.7	10521.9	10603.8	10741.8
17.5°	8453.6	8503.9	8760.4	9029.6	9266.3	9457.7	9572.1	9682.6	9741.7	9891.6
20°	7300.6	7237.5	7272.0	7423.9	8097.6	8390.5	8510.8	8537.5	8562.1	8680.5
22.5°	6011.5	5990.8	6106.2	6276.8	6436.6	7112.2	7276.0	7213.8	7265.1	7376.6
25°	4464.0	4568.6	4671.1	4998.6	5205.7	5537.1	5847.8	5875.4	5894.2	5964.2
27.5°	3633.5	3597.1	3595.1	3686.8	3992.6	4268.7	4533.1	4594.2	4583.4	4650.4
30°	2856.3	2844.5	2803.1	2824.8	2794.2	3039.8	3164.1	3415.6	3401.8	3403.7
32.5°	2060.4	2016.0	1999.2	2031.8	2000.2	1977.5	2086.0	2370.1	2365.2	2384.9
35°	1246.7	1240.8	1254.6	1283.2	1220.1	1218.1	1240.8	1508.1	1540.6	1572.2
37.5°	688.4	682.5	693.4	798.9	778.2	759.5	765.4	906.4	1000.1	1023.8
40°	453.7	452.7	460.6	479.3	514.9	507.9	510.9	574.0	662.8	683.5
42.5°	303.8	304.8	309.7	331.4	336.3	371.8	365.9	380.7	463.6	481.3
45°	242.6	241.6	244.6	234.7	240.7	277.2	281.1	282.1	353.1	363.9
47.5°	191.3	191.3	194.3	181.5	178.5	201.2	221.9	224.9	282.1	296.9
50°	134.1	134.1	148.9	143.0	149.9	156.8	179.5	182.5	230.8	246.6
52.5°	98.6	100.6	102.6	103.6	126.2	125.3	145.0	158.8	174.6	202.2
55°	75.0	76.9	72.0	76.9	93.7	104.5	108.5	128.2	139.1	169.6
57.5°	49.3	54.2	50.3	59.2	63.1	80.9	86.8	105.5	112.4	139.1
60°	6.9	7.9	12.8	41.4	44.4	53.3	67.1	83.8	90.7	113.4
62.5°	1.0	1.0	3.0	6.9	29.6	35.5	50.3	58.2	67.1	84.8
65°	0.0	0.0	1.0	2.0	5.9	20.7	25.6	31.6	46.4	61.2
67.5°	0.0	0.0	1.0	2.0	3.0	6.9	10.8	20.7	26.6	42.4
70°	0.0	0.0	1.0	2.0	3.0	3.9	5.9	7.9	15.8	24.7
72.5°	0.0	0.0	1.0	2.0	3.0	3.9	4.9	5.9	6.9	15.8
75°	0.0	0.0	1.0	2.0	3.0	4.9	5.9	5.9	5.9	6.9
77.5°	0.0	0.0	1.0	2.0	3.9	5.9	6.9	5.9	4.9	4.9
80°	0.0	0.0	1.0	3.0	4.9	6.9	7.9	5.9	3.9	3.0
82.5°	0.0	0.0	1.0	3.0	4.9	6.9	7.9	6.9	3.9	3.0
85°	0.0	0.0	1.0	3.0	3.9	4.9	7.9	6.9	3.9	2.0
87.5°	0.0	0.0	0.0	1.0	1.0	2.0	3.9	3.0	2.0	1.0
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°
11915.5	0°	11915.5	11915.5	11915.5	11915.5	11915.5	11915.5	11915.5	11915.5	11915.5
11946.1	2.5°	12034.9	12079.3	12157.2	12178.9	12246.0	12169.0	12126.6	12130.6	12038.8
11916.5	5°	12034.9	12136.5	12272.6	12337.7	12387.0	12383.1	12372.2	12344.6	12277.5
11857.4	7.5°	12003.3	12169.0	12356.4	12443.2	12502.4	12497.5	12522.1	12477.7	12395.9
11751.8	10°	11901.7	12045.7	12276.5	12347.5	12443.2	12445.2	12414.6	12423.5	12277.5
11366.2	12.5°	11582.2	11694.6	11896.8	11977.7	12094.1	12112.8	12079.3	12066.5	11928.4
10734.0	15°	10963.8	11028.9	11232.0	11312.9	11428.3	11412.5	11446.1	11432.3	11310.9
9879.8	17.5°	10059.3	10080.0	10293.1	10361.1	10469.6	10512.0	10461.7	10525.8	10421.3
8701.2	20°	8762.3	8873.8	9113.5	9218.0	9281.1	9357.1	9291.0	9363.0	9240.7
7271.0	22.5°	7446.6	7512.7	7729.7	7880.6	7997.9	8012.7	7988.1	8038.4	7873.7
6010.5	25°	6009.6	6119.0	6290.7	6487.9	6603.3	6674.3	6610.2	6642.8	6616.1
4661.3	27.5°	4740.2	4837.8	4967.0	5114.0	5287.6	5380.3	5329.0	5384.2	5254.0
3475.7	30°	3478.7	3528.0	3674.0	3829.8	4020.2	4132.6	4137.5	4193.8	4116.8
2435.2	32.5°	2452.9	2496.3	2586.1	2689.7	2871.1	2996.4	2976.7	2984.6	2937.2
1587.0	35°	1594.9	1653.0	1717.2	1766.5	1876.0	2014.0	2003.2	1993.3	1960.8
1043.5	37.5°	1066.2	1088.9	1124.4	1168.8	1239.8	1326.6	1355.2	1319.7	1305.9
704.2	40°	721.0	760.4	784.1	817.6	851.2	924.2	943.9	937.0	923.2
493.2	42.5°	511.9	542.5	572.1	604.6	622.4	667.7	706.2	695.3	689.4
374.8	45°	388.6	416.2	450.7	475.4	493.2	519.8	556.3	560.2	551.3
300.8	47.5°	311.7	336.3	363.9	394.5	415.2	432.0	463.6	475.4	469.5
253.5	50°	264.3	283.1	309.7	340.3	363.0	377.8	405.4	418.2	414.2
212.1	52.5°	224.9	247.6	272.2	297.9	325.5	340.3	365.9	384.7	381.7
175.6	55°	186.4	216.0	241.6	267.3	298.9	313.6	336.3	361.0	356.1
148.9	57.5°	162.7	187.4	214.0	238.7	272.2	291.9	312.7	338.3	337.3
122.3	60°	136.1	160.8	190.4	211.1	246.6	274.2	292.9	319.6	321.5
92.7	62.5°	108.5	139.1	161.8	190.4	222.9	255.5	273.2	299.8	309.7
71.0	65°	80.9	114.4	140.1	168.7	199.2	235.7	251.5	278.1	288.0
51.3	67.5°	60.2	85.8	118.4	143.0	177.5	209.1	227.8	252.5	259.4
30.6	70°	45.4	66.1	98.6	120.3	155.8	181.5	200.2	219.0	227.8
20.7	72.5°	26.6	49.3	77.9	103.6	134.1	155.8	169.6	184.4	190.4
9.9	75°	18.7	37.5	61.2	85.8	108.5	126.2	139.1	151.9	157.8
4.9	77.5°	9.9	27.6	48.3	69.0	84.8	99.6	112.4	122.3	126.2
3.9	80°	5.9	19.7	39.5	54.2	65.1	77.9	90.7	97.6	96.7
3.0	82.5°	3.9	15.8	28.6	39.5	47.3	57.2	66.1	71.0	71.0
2.0	85°	3.0	10.8	19.7	30.6	31.6	39.5	41.4	46.4	47.3
2.0	87.5°	2.0	6.9	10.8	17.8	16.8	20.7	21.7	24.7	26.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
11915.5
11964.9
12299.2
12414.6
12235.1
11896.8
11349.4
10395.7
9230.8
7851.0
6599.4
5287.6
4130.6
2963.8
1932.2
1302.9
925.2
684.5
550.4
466.5
413.3
379.7
356.1
336.3
321.5
308.7
287.0
259.4
225.9
188.4
155.8
125.3
95.7
70.0
46.4
25.6
0.0

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