

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: P637583

Luminaire Tested: **IFLD-S-SA3A-730-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637583
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-730-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11768.6 lumens
Efficiency: N/A
Efficacy: 124.1 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



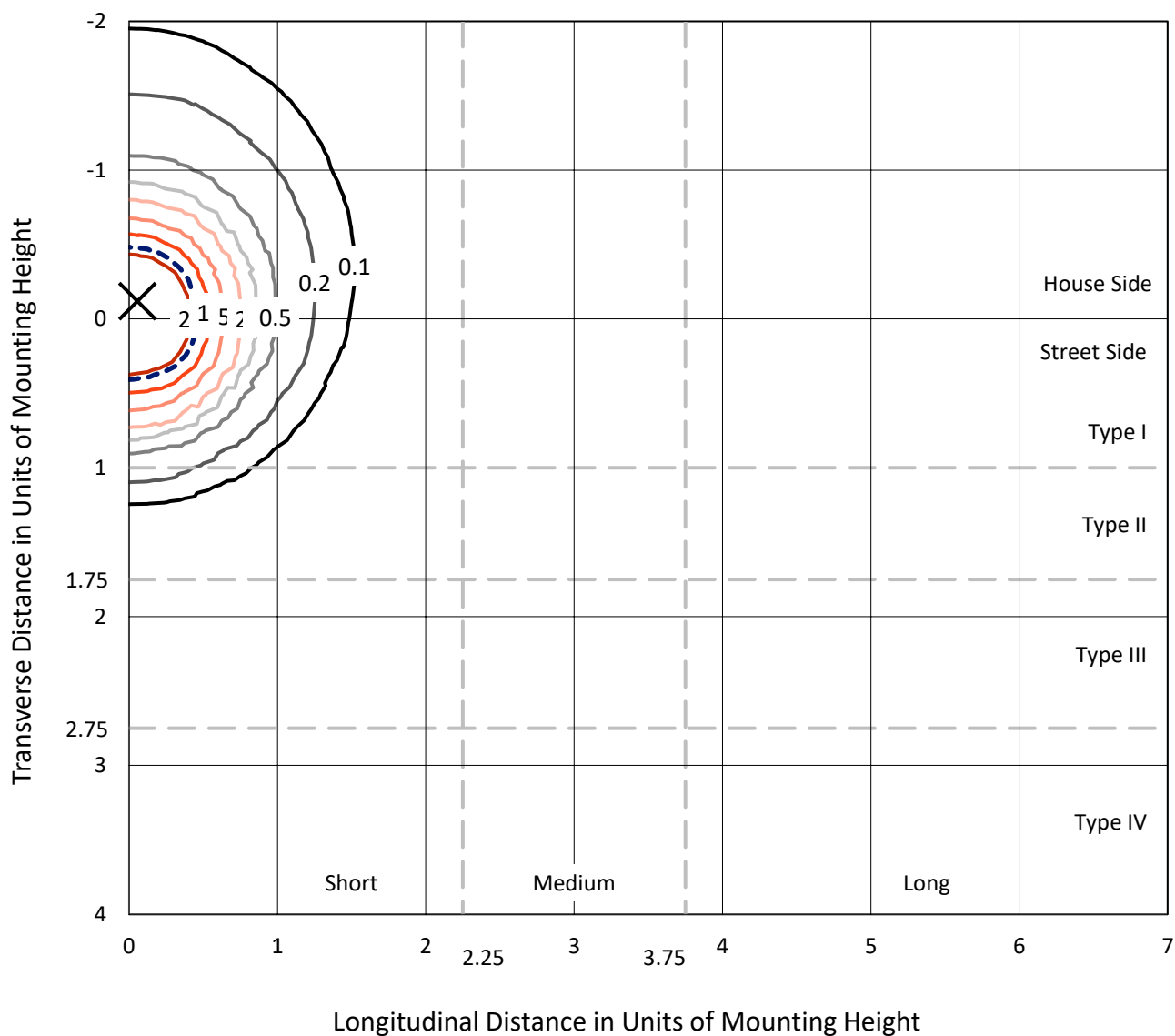
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



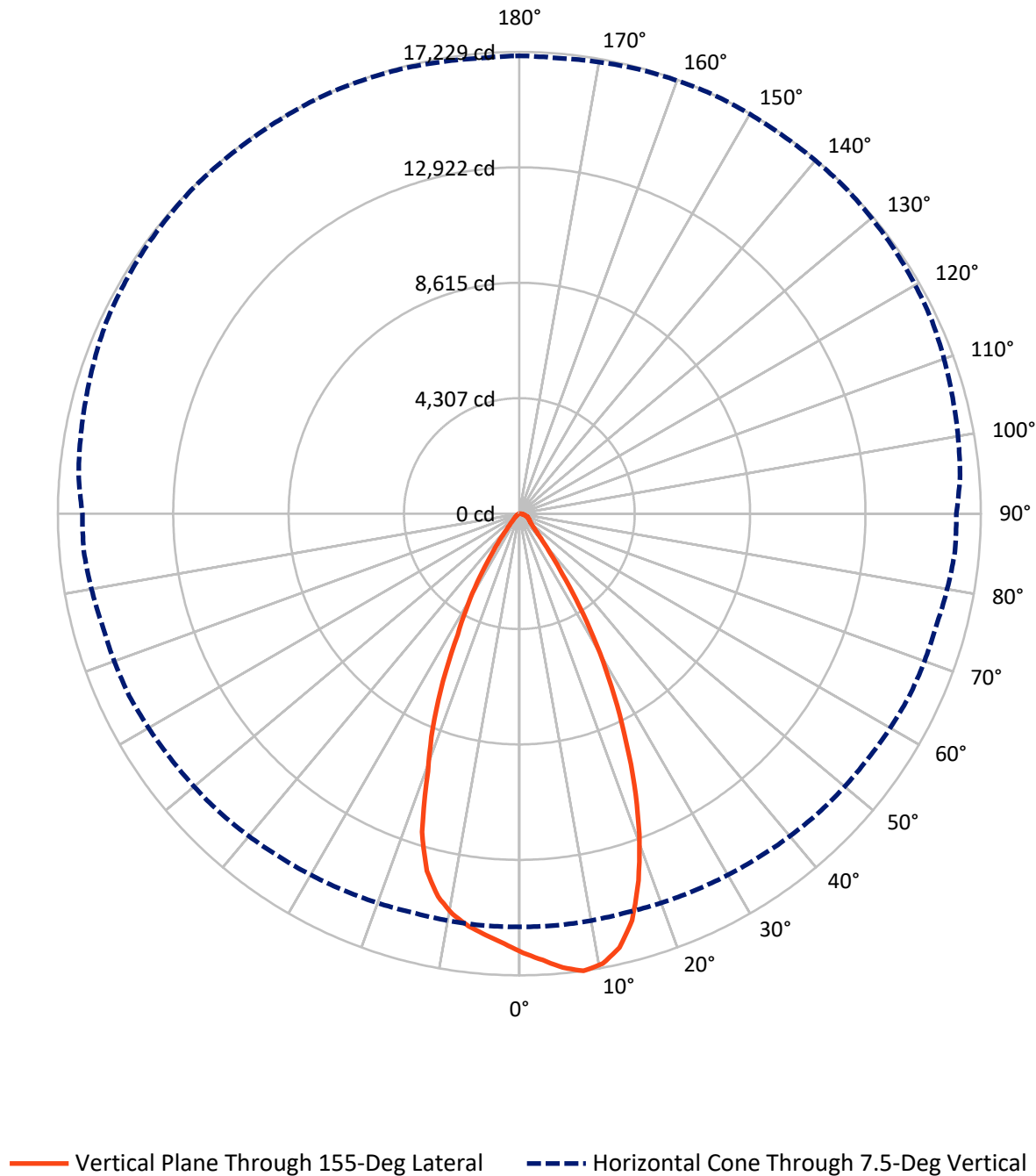
Based on 20 foot mounting height. Maximum calculated value = 41.7 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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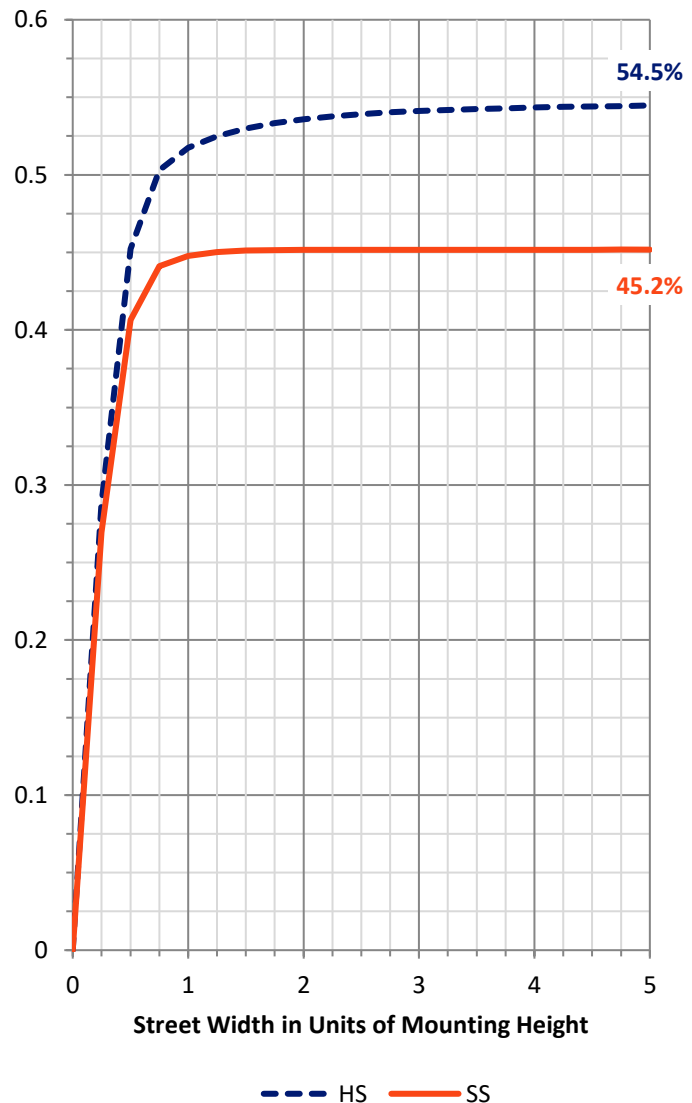
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6496.7	0.0	6496.7
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	5271.9	0.0	5271.9
	% Fixture	44.8	0.0	44.8
Total	Lumens	11768.6	0.0	11768.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1563.3	13.3
10°-20°	4053.7	34.4
20°-30°	3714.3	31.6
30°-40°	1500.6	12.8
40°-50°	440.2	3.7
50°-60°	246.1	2.1
60°-70°	149.5	1.3
70°-80°	76.0	0.6
80°-90°	24.8	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°	11768.6	100.0
0°-180°	11768.6	100.0

Coefficient of Utilization



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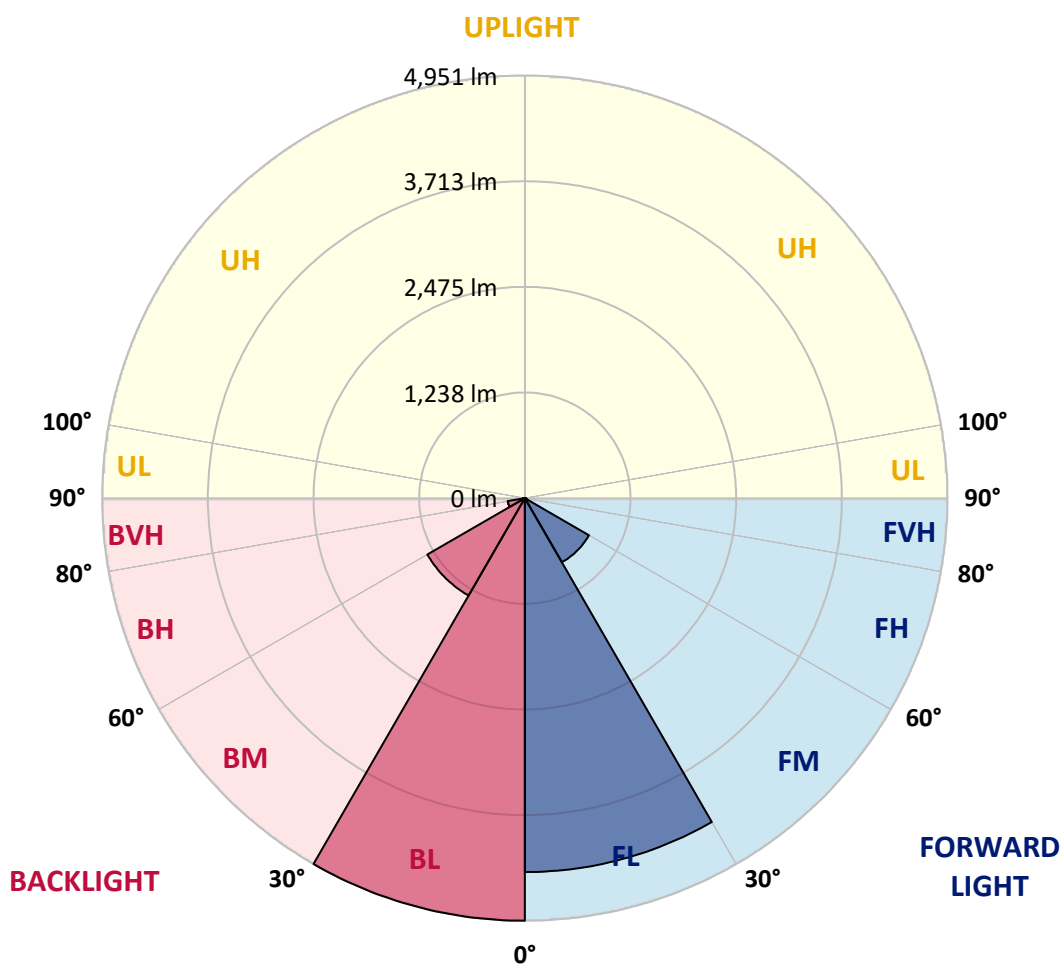
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4380.6	37.2			
FM	(30°-60°)	868.1	7.4			
FH	(60°-80°)	21.0	0.2			G0/660
FVH	(80°-90°)	2.2	0.0			G0/10
BL	(0°-30°)	4950.8	42.1	B4/5000		
BM	(30°-60°)	1318.8	11.2	B2/2500		
BH	(60°-80°)	204.4	1.7	B1/500		G1/500
BVH	(80°-90°)	22.7	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°	16394.5	16394.5	16394.5	16394.5	16394.5	16394.5	16394.5	16394.5	16394.5	16394.5
2.5°	16039.0	16093.2	15984.7	16056.6	16112.2	16245.2	16256.1	16302.2	16318.5	16439.3
5°	15735.0	15777.0	15688.8	15785.2	15863.9	15982.0	16072.9	16200.4	16271.0	16413.5
7.5°	15418.8	15428.3	15410.6	15512.4	15630.5	15793.3	15906.0	16072.9	16116.3	16319.9
10°	15036.1	14966.9	15000.8	15150.1	15326.5	15576.2	15653.6	15820.5	15897.8	16105.5
12.5°	14425.4	14460.7	14418.6	14608.6	14755.2	15038.8	15120.2	15288.5	15436.4	15619.6
15°	13565.1	13544.7	13630.2	13778.1	13936.9	14162.2	14293.8	14477.0	14589.6	14779.6
17.5°	11631.3	11700.5	12053.3	12423.8	12749.5	13012.7	13170.2	13322.1	13403.6	13609.8
20°	10044.9	9958.0	10005.5	10214.5	11141.4	11544.4	11710.0	11746.6	11780.5	11943.4
22.5°	8271.2	8242.7	8401.5	8636.3	8856.1	9785.7	10010.9	9925.5	9996.0	10149.4
25°	6142.0	6285.8	6427.0	6877.5	7162.5	7618.5	8045.9	8083.9	8109.7	8206.1
27.5°	4999.4	4949.2	4946.4	5072.6	5493.3	5873.3	6237.0	6321.1	6306.2	6398.5
30°	3930.0	3913.7	3856.7	3886.6	3844.5	4182.4	4353.4	4699.5	4680.5	4683.2
32.5°	2834.9	2773.8	2750.7	2795.5	2752.1	2720.9	2870.2	3261.0	3254.2	3281.3
35°	1715.3	1707.2	1726.2	1765.5	1678.7	1676.0	1707.2	2074.9	2119.7	2163.1
37.5°	947.2	939.1	954.0	1099.2	1070.7	1044.9	1053.1	1247.1	1376.0	1408.6
40°	624.2	622.9	633.7	659.5	708.4	698.9	703.0	789.8	911.9	940.4
42.5°	418.0	419.3	426.1	456.0	462.8	511.6	503.5	523.8	637.8	662.2
45°	333.8	332.5	336.5	323.0	331.1	381.3	386.8	388.1	485.8	500.8
47.5°	263.3	263.3	267.3	249.7	245.6	276.8	305.3	309.4	388.1	408.5
50°	184.6	184.6	204.9	196.8	206.3	215.8	247.0	251.1	317.5	339.3
52.5°	135.7	138.4	141.1	142.5	173.7	172.3	199.5	218.5	240.2	278.2
55°	103.1	105.8	99.1	105.8	128.9	143.8	149.3	176.4	191.3	233.4
57.5°	67.9	74.6	69.2	81.4	86.9	111.3	119.4	145.2	154.7	191.3
60°	9.5	10.9	17.6	57.0	61.1	73.3	92.3	115.3	124.8	156.1
62.5°	1.4	1.4	4.1	9.5	40.7	48.9	69.2	80.1	92.3	116.7
65°	0.0	0.0	1.4	2.7	8.1	28.5	35.3	43.4	63.8	84.1
67.5°	0.0	0.0	1.4	2.7	4.1	9.5	14.9	28.5	36.6	58.4
70°	0.0	0.0	1.4	2.7	4.1	5.4	8.1	10.9	21.7	33.9
72.5°	0.0	0.0	1.4	2.7	4.1	5.4	6.8	8.1	9.5	21.7
75°	0.0	0.0	1.4	2.7	4.1	6.8	8.1	8.1	8.1	9.5
77.5°	0.0	0.0	1.4	2.7	5.4	8.1	9.5	8.1	6.8	6.8
80°	0.0	0.0	1.4	4.1	6.8	9.5	10.9	8.1	5.4	4.1
82.5°	0.0	0.0	1.4	4.1	6.8	9.5	10.9	9.5	5.4	4.1
85°	0.0	0.0	1.4	4.1	5.4	6.8	10.9	9.5	5.4	2.7
87.5°	0.0	0.0	0.0	1.4	1.4	2.7	5.4	4.1	2.7	1.4
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°
16394.5	0°	16394.5	16394.5	16394.5	16394.5	16394.5	16394.5	16394.5	16394.5	16394.5
16436.6	2.5°	16558.7	16619.8	16727.0	16756.8	16849.1	16743.3	16684.9	16690.3	16564.1
16395.9	5°	16558.7	16698.5	16885.8	16975.3	17043.2	17037.7	17022.8	16984.8	16892.5
16314.4	7.5°	16515.3	16743.3	17001.1	17120.5	17201.9	17195.2	17229.1	17168.0	17055.4
16169.2	10°	16375.5	16573.6	16891.2	16988.9	17120.5	17123.2	17081.2	17093.4	16892.5
15638.6	12.5°	15935.8	16090.5	16368.7	16480.0	16640.1	16665.9	16619.8	16602.1	16412.1
14768.8	15°	15085.0	15174.5	15454.1	15565.3	15724.1	15702.4	15748.6	15729.6	15562.6
13593.6	17.5°	13840.5	13869.0	14162.2	14255.8	14405.1	14463.4	14394.2	14482.4	14338.6
11971.9	20°	12056.0	12209.4	12539.1	12683.0	12769.8	12874.3	12783.4	12882.5	12714.2
10004.2	22.5°	10245.7	10336.6	10635.2	10842.8	11004.3	11024.7	10990.7	11059.9	10833.3
8269.9	25°	8268.5	8419.1	8655.3	8926.7	9085.4	9183.1	9094.9	9139.7	9103.1
6413.4	27.5°	6522.0	6656.3	6834.1	7036.3	7275.1	7402.7	7332.1	7408.1	7229.0
4782.2	30°	4786.3	4854.2	5055.0	5269.4	5531.3	5686.0	5692.8	5770.2	5664.3
3350.6	32.5°	3375.0	3434.7	3558.2	3700.7	3950.4	4122.7	4095.6	4106.4	4041.3
2183.5	35°	2194.3	2274.4	2362.6	2430.5	2581.1	2771.1	2756.2	2742.6	2697.8
1435.8	37.5°	1467.0	1498.2	1547.0	1608.1	1705.8	1825.2	1864.6	1815.7	1796.7
968.9	40°	992.0	1046.3	1078.9	1125.0	1171.1	1271.6	1298.7	1289.2	1270.2
678.5	42.5°	704.3	746.4	787.1	831.9	856.3	918.7	971.6	956.7	948.6
515.7	45°	534.7	572.7	620.2	654.1	678.5	715.2	765.4	770.8	758.6
413.9	47.5°	428.8	462.8	500.8	542.8	571.3	594.4	637.8	654.1	646.0
348.8	50°	363.7	389.5	426.1	468.2	499.4	519.7	557.7	575.4	570.0
291.8	52.5°	309.4	340.6	374.5	409.8	447.8	468.2	503.5	529.2	525.2
241.6	55°	256.5	297.2	332.5	367.8	411.2	431.5	462.8	496.7	489.9
204.9	57.5°	223.9	257.8	294.5	328.4	374.5	401.7	430.2	465.5	464.1
168.3	60°	187.3	221.2	261.9	290.4	339.3	377.3	403.0	439.7	442.4
127.6	62.5°	149.3	191.3	222.6	261.9	306.7	351.5	375.9	412.5	426.1
97.7	65°	111.3	157.4	192.7	232.1	274.1	324.3	346.0	382.7	396.3
70.6	67.5°	82.8	118.1	162.8	196.8	244.3	287.7	313.5	347.4	356.9
42.1	70°	62.4	90.9	135.7	165.6	214.4	249.7	275.5	301.3	313.5
28.5	72.5°	36.6	67.9	107.2	142.5	184.6	214.4	233.4	253.8	261.9
13.6	75°	25.8	51.6	84.1	118.1	149.3	173.7	191.3	209.0	217.1
6.8	77.5°	13.6	38.0	66.5	95.0	116.7	137.1	154.7	168.3	173.7
5.4	80°	8.1	27.1	54.3	74.6	89.6	107.2	124.8	134.3	133.0
4.1	82.5°	5.4	21.7	39.4	54.3	65.1	78.7	90.9	97.7	97.7
2.7	85°	4.1	14.9	27.1	42.1	43.4	54.3	57.0	63.8	65.1
2.7	87.5°	2.7	9.5	14.9	24.4	23.1	28.5	29.9	33.9	36.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
16394.5
16462.4
16922.4
17081.2
16834.2
16368.7
15615.6
14303.3
12700.6
10802.1
9080.0
7275.1
5683.3
4077.9
2658.5
1792.7
1272.9
941.8
757.2
641.9
568.6
522.5
489.9
462.8
442.4
424.8
394.9
356.9
310.8
259.2
214.4
172.3
131.6
96.4
63.8
35.3
0.0

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