

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: P637524

Luminaire Tested: **IFLD-S-SA2E-722-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637524
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-722-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12523.3 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 156.2
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



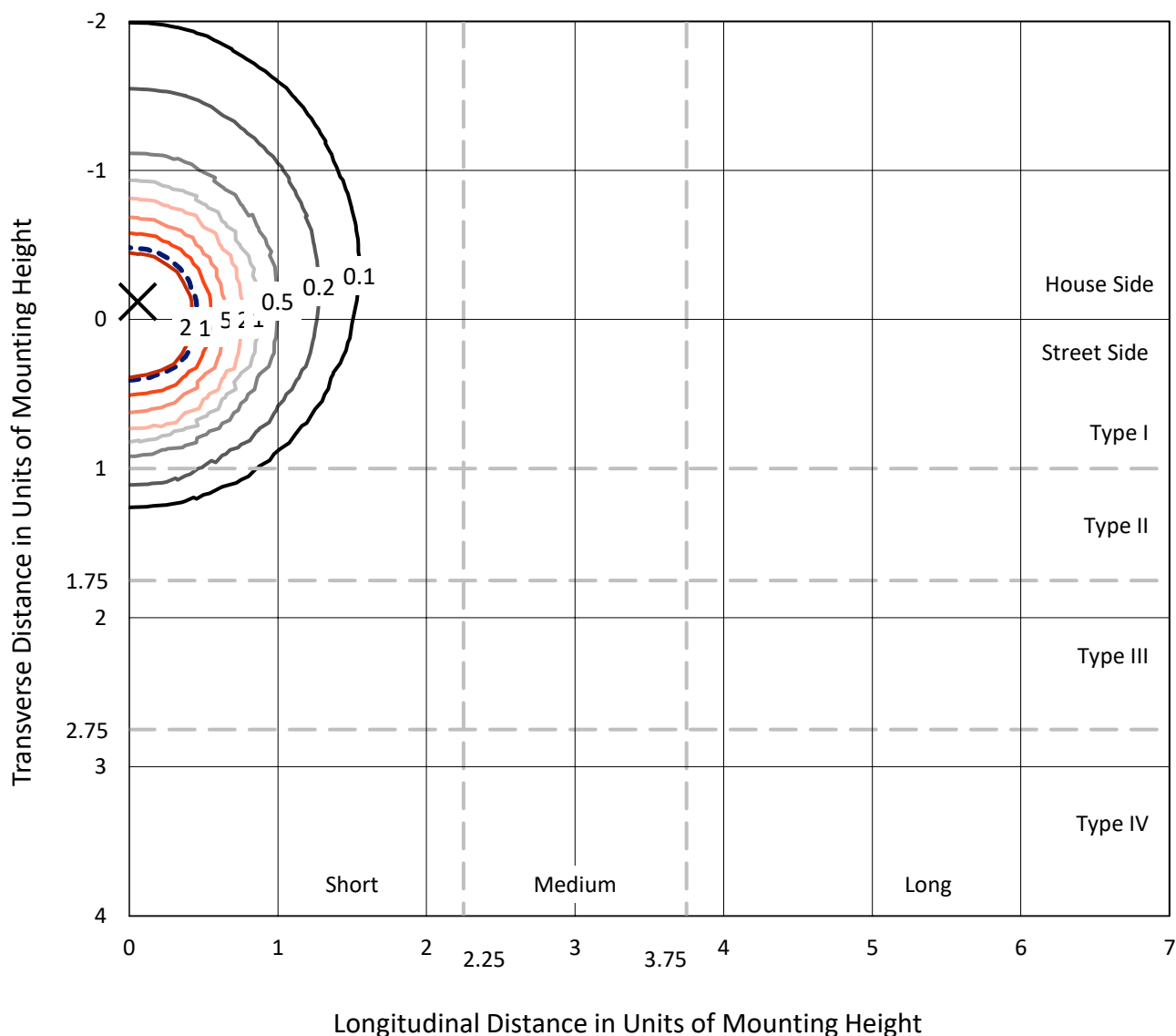
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



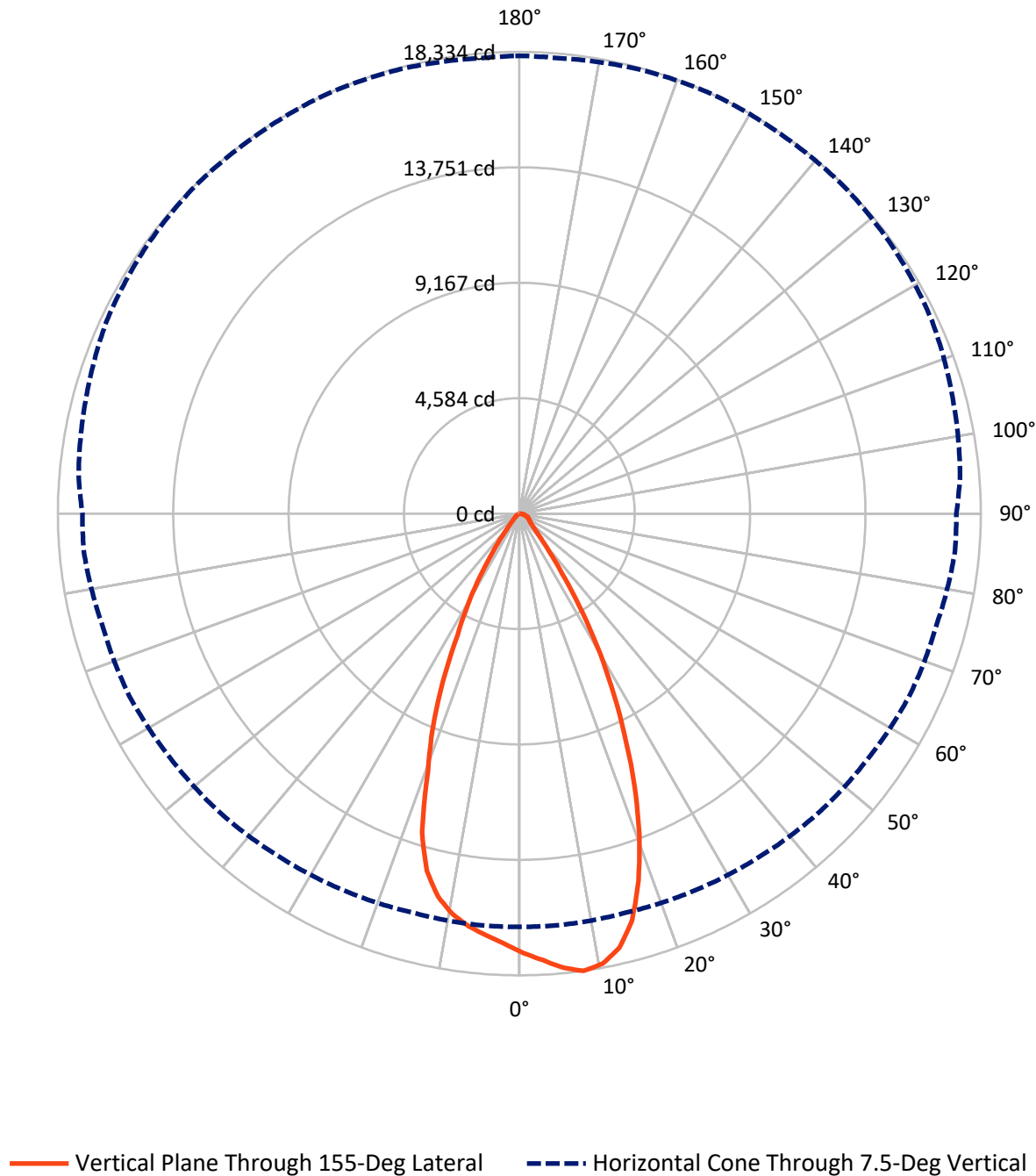
Based on 20 foot mounting height. Maximum calculated value = 44.3 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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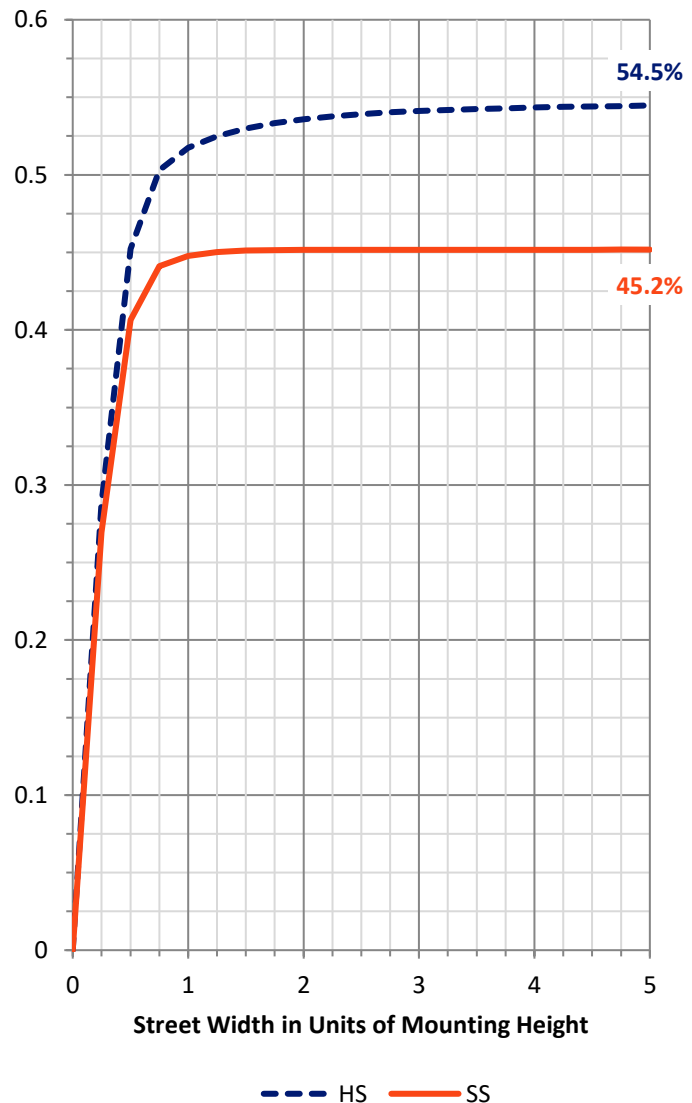
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6913.3	0.0	6913.3
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	5610.0	0.0	5610.0
	% Fixture	44.8	0.0	44.8
Total	Lumens	12523.3	0.0	12523.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1663.6	13.3
10°-20°	4313.7	34.4
20°-30°	3952.5	31.6
30°-40°	1596.8	12.8
40°-50°	468.4	3.7
50°-60°	261.9	2.1
60°-70°	159.1	1.3
70°-80°	80.8	0.6
80°-90°	26.4	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°	12523.3	100.0
0°-180°	12523.3	100.0

Coefficient of Utilization



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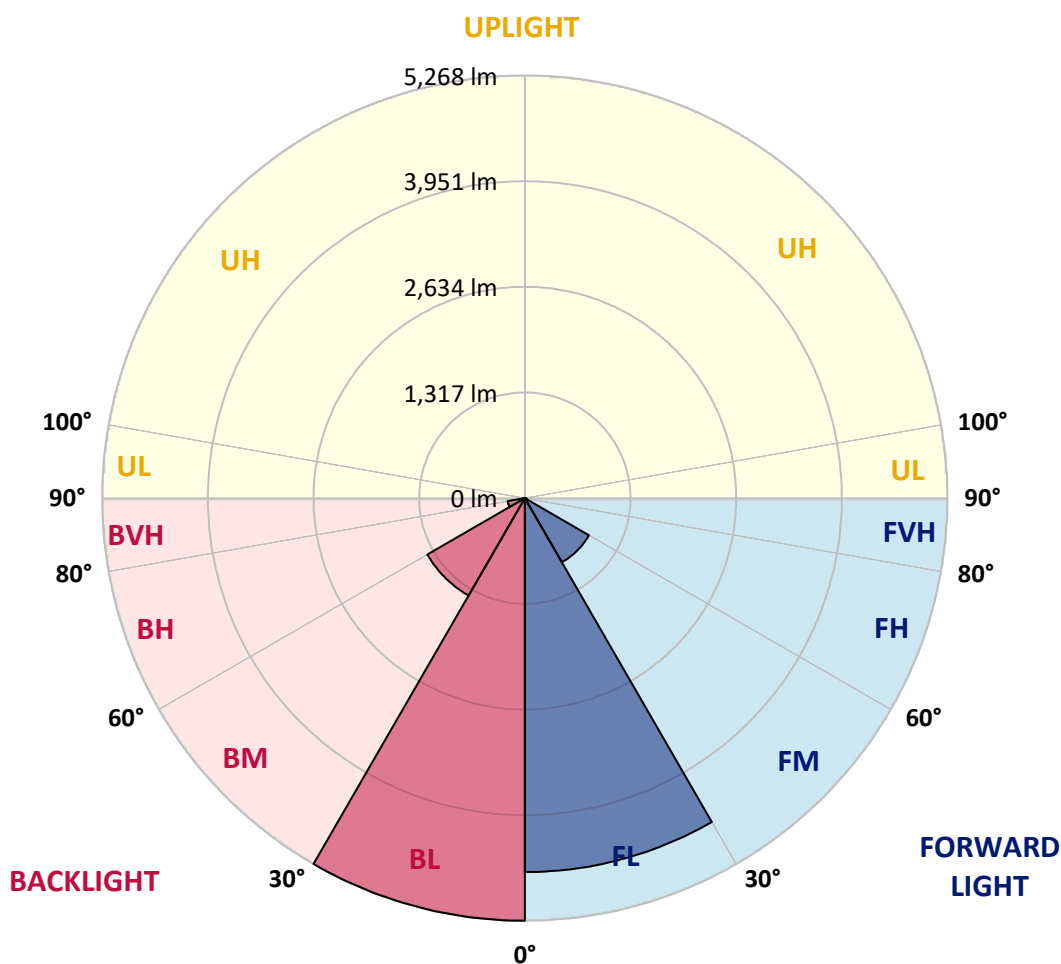
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4661.5	37.2			
FM	(30°-60°)	923.8	7.4			
FH	(60°-80°)	22.4	0.2			G0/660
FVH	(80°-90°)	2.3	0.0			G0/10
BL	(0°-30°)	5268.3	42.1	B5		
BM	(30°-60°)	1403.3	11.2	B2/2500		
BH	(60°-80°)	217.5	1.7	B1/500		G1/500
BVH	(80°-90°)	24.1	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°	17445.9	17445.9	17445.9	17445.9	17445.9	17445.9	17445.9	17445.9	17445.9	17445.9
2.5°	17067.6	17125.3	17009.8	17086.3	17145.6	17287.1	17298.6	17347.7	17365.1	17493.6
5°	16744.1	16788.9	16695.0	16797.5	16881.3	17006.9	17103.7	17239.4	17314.5	17466.1
7.5°	16407.6	16417.7	16399.0	16507.3	16632.9	16806.2	16926.1	17103.7	17149.9	17366.5
10°	16000.4	15926.7	15962.9	16121.7	16309.4	16575.1	16657.5	16835.1	16917.4	17138.3
12.5°	15350.6	15388.1	15343.3	15545.5	15701.5	16003.3	16089.9	16269.0	16426.4	16621.4
15°	14435.0	14413.4	14504.3	14661.7	14830.7	15070.4	15210.5	15405.4	15525.3	15727.5
17.5°	12377.2	12450.9	12826.3	13220.5	13567.1	13847.3	14014.8	14176.5	14263.2	14482.7
20°	10689.1	10596.7	10647.2	10869.6	11855.9	12284.8	12461.0	12499.9	12536.1	12709.3
22.5°	8801.7	8771.3	8940.3	9190.1	9424.1	10413.3	10653.0	10562.0	10637.1	10800.3
25°	6535.9	6689.0	6839.2	7318.6	7621.8	8107.1	8561.9	8602.4	8629.8	8732.3
27.5°	5320.0	5266.6	5263.7	5398.0	5845.6	6250.0	6637.0	6726.5	6710.6	6808.8
30°	4182.1	4164.7	4104.1	4135.8	4091.1	4450.7	4632.6	5000.8	4980.6	4983.5
32.5°	3016.7	2951.7	2927.1	2974.8	2928.6	2895.4	3054.2	3470.1	3462.9	3491.8
35°	1825.3	1816.7	1836.9	1878.7	1786.3	1783.4	1816.7	2208.0	2255.7	2301.9
37.5°	1008.0	999.3	1015.2	1169.7	1139.4	1111.9	1120.6	1327.1	1464.3	1499.0
40°	664.3	662.8	674.4	701.8	753.8	743.7	748.0	840.5	970.4	1000.7
42.5°	444.8	446.2	453.4	485.2	492.4	544.4	535.8	557.4	678.7	704.7
45°	355.2	353.8	358.1	343.7	352.4	405.8	411.6	413.0	517.0	532.9
47.5°	280.2	280.2	284.5	265.7	261.4	294.6	324.9	329.3	413.0	434.7
50°	196.4	196.4	218.1	209.4	219.5	229.6	262.8	267.2	337.9	361.0
52.5°	144.4	147.3	150.2	151.6	184.8	183.4	212.3	232.5	255.6	296.0
55°	109.8	112.6	105.4	112.6	137.2	153.1	158.8	187.7	203.6	248.4
57.5°	72.2	79.4	73.6	86.6	92.4	118.4	127.1	154.5	164.6	203.6
60°	10.1	11.6	18.8	60.7	65.0	78.0	98.2	122.7	132.9	166.1
62.5°	1.4	1.4	4.3	10.1	43.3	52.0	73.6	85.2	98.2	124.2
65°	0.0	0.0	1.4	2.9	8.7	30.3	37.5	46.2	67.9	89.5
67.5°	0.0	0.0	1.4	2.9	4.3	10.1	15.9	30.3	39.0	62.1
70°	0.0	0.0	1.4	2.9	4.3	5.8	8.7	11.6	23.1	36.1
72.5°	0.0	0.0	1.4	2.9	4.3	5.8	7.2	8.7	10.1	23.1
75°	0.0	0.0	1.4	2.9	4.3	7.2	8.7	8.7	8.7	10.1
77.5°	0.0	0.0	1.4	2.9	5.8	8.7	10.1	8.7	7.2	7.2
80°	0.0	0.0	1.4	4.3	7.2	10.1	11.6	8.7	5.8	4.3
82.5°	0.0	0.0	1.4	4.3	7.2	10.1	11.6	10.1	5.8	4.3
85°	0.0	0.0	1.4	4.3	5.8	7.2	11.6	10.1	5.8	2.9
87.5°	0.0	0.0	0.0	1.4	1.4	2.9	5.8	4.3	2.9	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°
17445.9	0°	17445.9	17445.9	17445.9	17445.9	17445.9	17445.9	17445.9	17445.9	17445.9
17490.7	2.5°	17620.7	17685.6	17799.7	17831.5	17929.7	17817.0	17755.0	17760.7	17626.4
17447.4	5°	17620.7	17769.4	17968.7	18064.0	18136.2	18130.4	18114.5	18074.1	17975.9
17360.7	7.5°	17574.4	17817.0	18091.4	18218.5	18305.1	18297.9	18334.0	18269.0	18149.2
17206.2	10°	17425.7	17636.5	17974.5	18078.4	18218.5	18221.4	18176.6	18189.6	17975.9
16641.6	12.5°	16957.8	17122.4	17418.5	17536.9	17707.3	17734.7	17685.6	17666.9	17464.7
15715.9	15°	16052.4	16147.7	16445.2	16563.6	16732.5	16709.4	16758.5	16738.3	16560.7
14465.3	17.5°	14728.2	14758.5	15070.4	15170.1	15328.9	15391.0	15317.3	15411.2	15258.1
12739.7	20°	12829.2	12992.4	13343.3	13496.4	13588.8	13700.0	13603.2	13708.6	13529.6
10645.8	22.5°	10902.8	10999.6	11317.2	11538.2	11710.0	11731.7	11695.6	11769.2	11528.1
8800.2	25°	8798.8	8959.1	9210.3	9499.2	9668.1	9772.1	9678.2	9725.9	9686.9
6824.7	27.5°	6940.2	7083.2	7272.4	7487.6	7741.7	7877.5	7802.4	7883.2	7692.6
5088.9	30°	5093.3	5165.5	5379.2	5607.4	5886.1	6050.7	6057.9	6140.2	6027.6
3565.4	32.5°	3591.4	3655.0	3786.4	3938.0	4203.7	4387.1	4358.2	4369.8	4300.5
2323.5	35°	2335.1	2420.3	2514.1	2586.3	2746.6	2948.8	2932.9	2918.5	2870.8
1527.8	37.5°	1561.0	1594.3	1646.3	1711.2	1815.2	1942.3	1984.2	1932.2	1912.0
1031.1	40°	1055.6	1113.4	1148.0	1197.1	1246.2	1353.1	1382.0	1371.9	1351.7
722.0	42.5°	749.5	794.2	837.6	885.2	911.2	977.6	1034.0	1018.1	1009.4
548.8	45°	569.0	609.4	659.9	696.0	722.0	761.0	814.5	820.2	807.2
440.4	47.5°	456.3	492.4	532.9	577.6	608.0	632.5	678.7	696.0	687.4
371.1	50°	387.0	414.5	453.4	498.2	531.4	553.1	593.5	612.3	606.5
310.5	52.5°	329.3	362.5	398.6	436.1	476.5	498.2	535.8	563.2	558.9
257.0	55°	272.9	316.3	353.8	391.3	437.6	459.2	492.4	528.5	521.3
218.1	57.5°	238.3	274.4	313.4	349.5	398.6	427.4	457.8	495.3	493.9
179.1	60°	199.3	235.4	278.7	309.0	361.0	401.5	428.9	467.9	470.8
135.7	62.5°	158.8	203.6	236.8	278.7	326.4	374.0	400.0	439.0	453.4
104.0	65°	118.4	167.5	205.1	246.9	291.7	345.1	368.2	407.2	421.7
75.1	67.5°	88.1	125.6	173.3	209.4	259.9	306.1	333.6	369.7	379.8
44.8	70°	66.4	96.8	144.4	176.2	228.2	265.7	293.1	320.6	333.6
30.3	72.5°	39.0	72.2	114.1	151.6	196.4	228.2	248.4	270.0	278.7
14.4	75°	27.4	54.9	89.5	125.6	158.8	184.8	203.6	222.4	231.1
7.2	77.5°	14.4	40.4	70.8	101.1	124.2	145.9	164.6	179.1	184.8
5.8	80°	8.7	28.9	57.8	79.4	95.3	114.1	132.9	143.0	141.5
4.3	82.5°	5.8	23.1	41.9	57.8	69.3	83.8	96.8	104.0	104.0
2.9	85°	4.3	15.9	28.9	44.8	46.2	57.8	60.7	67.9	69.3
2.9	87.5°	2.9	10.1	15.9	26.0	24.5	30.3	31.8	36.1	39.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
17445.9
17518.1
18007.7
18176.6
17913.8
17418.5
16617.0
15220.6
13515.1
11494.9
9662.3
7741.7
6047.8
4339.5
2829.0
1907.6
1354.5
1002.2
805.8
683.0
605.1
556.0
521.3
492.4
470.8
452.0
420.2
379.8
330.7
275.8
228.2
183.4
140.1
102.5
67.9
37.5
0.0

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