

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: P638207

Luminaire Tested: **IFLD-L-SA7A-750-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638207
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-750-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24627.2 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

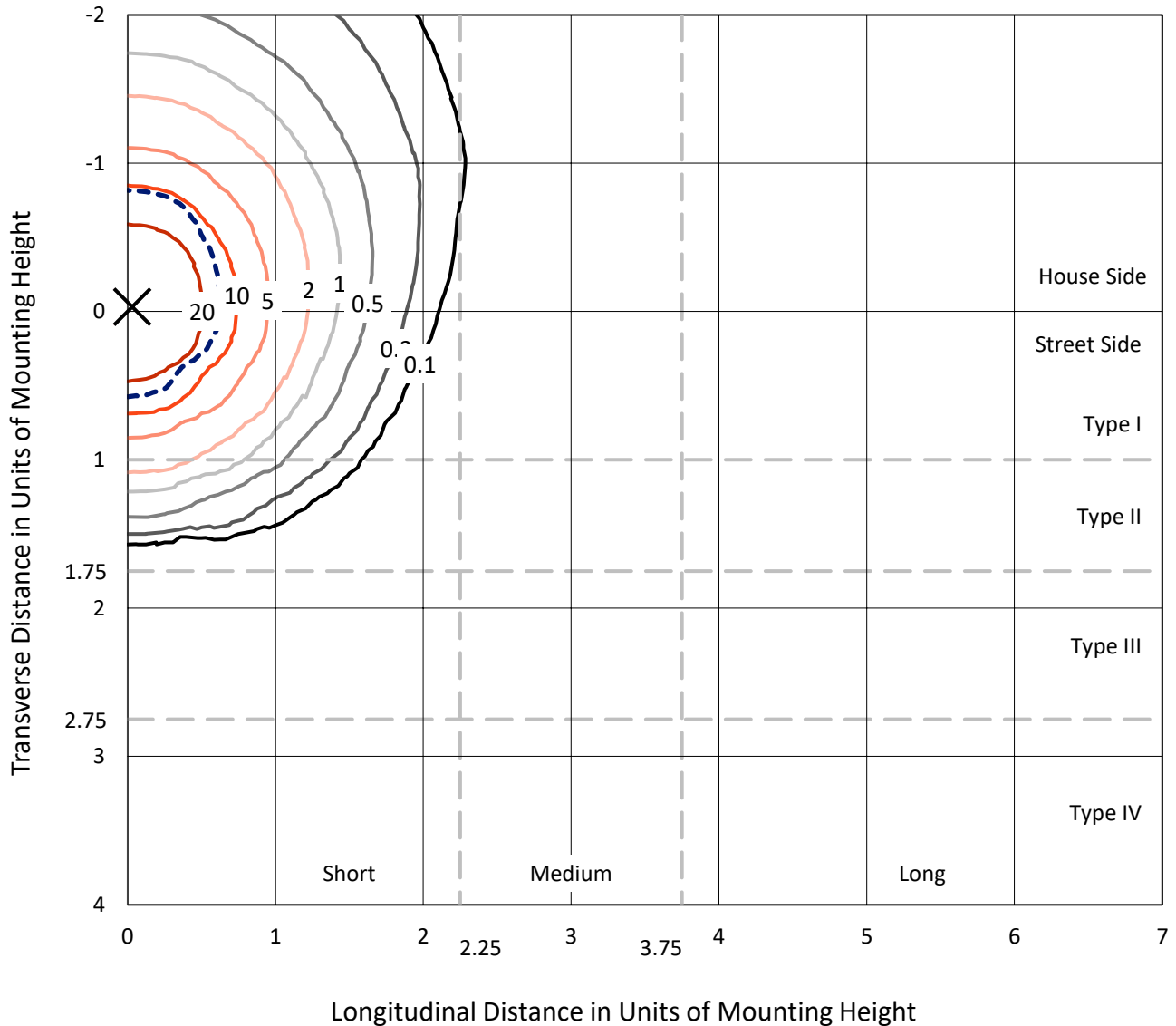
Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638207
 CATALOG NUMBER: IFLD-L-SA7A-750-U-77-VI

Iso-Footcandle Lines of Horizontal Illumination

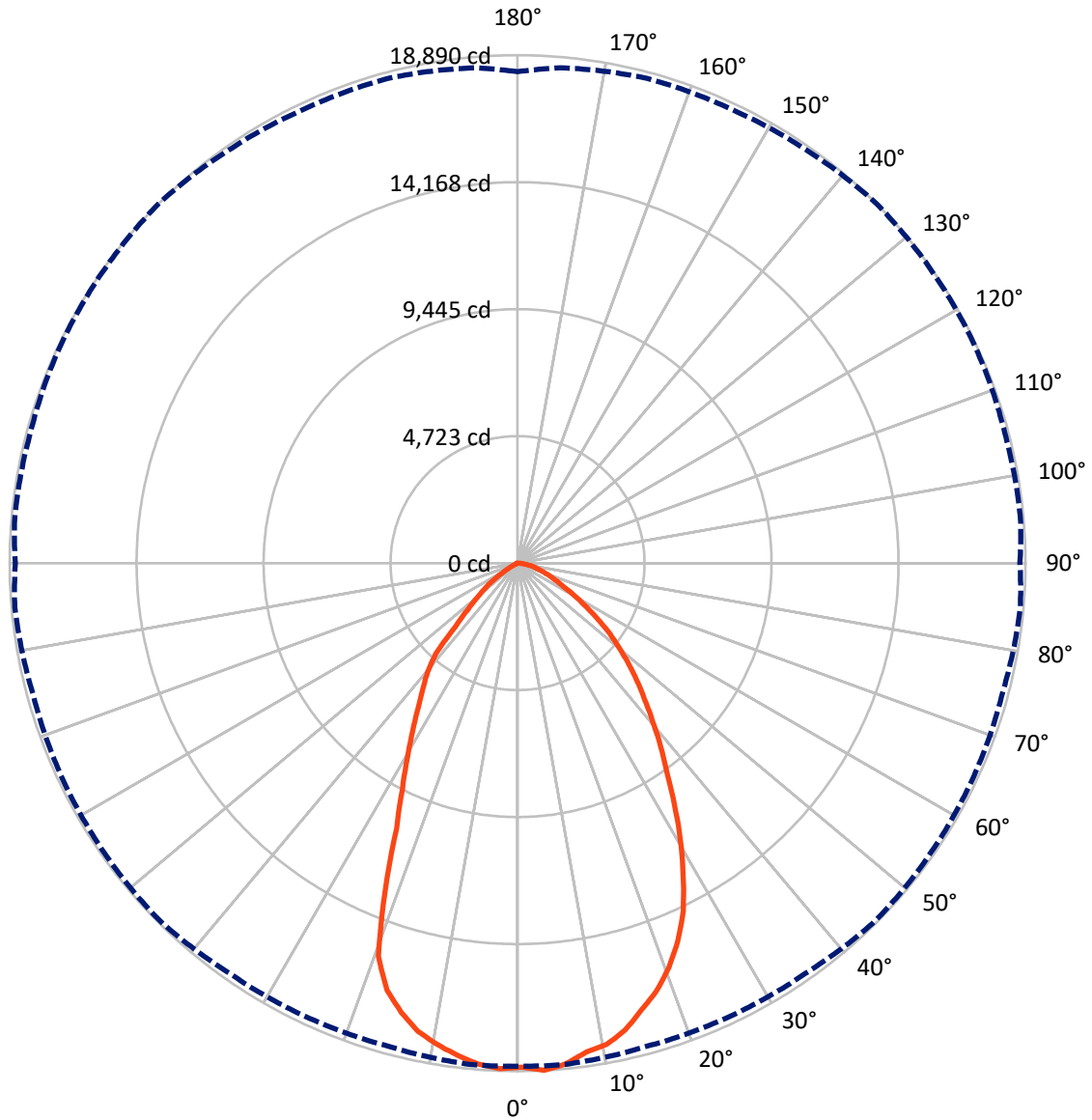
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 46.9 fc
 Type I - Short - N/A

REPORT NUMBER: P638207
CATALOG NUMBER: IFLD-L-SA7A-750-U-77-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

REPORT NUMBER: P638207

CATALOG NUMBER: IFLD-L-SA7A-750-U-77-VI

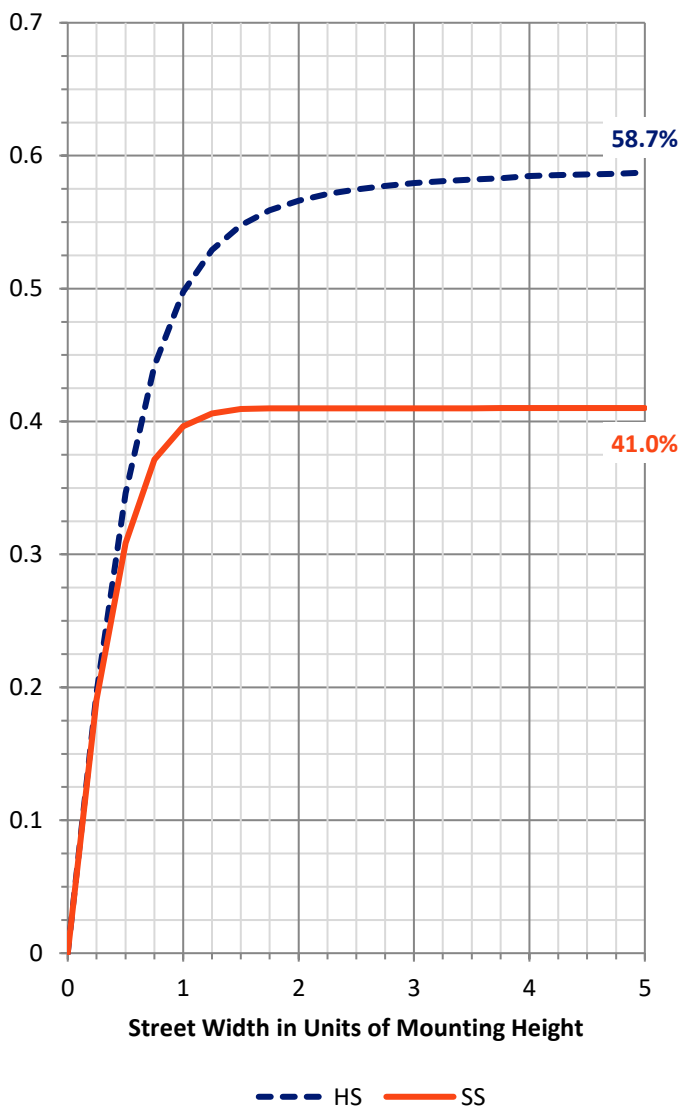
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14585.5	0.0	14585.5
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	10041.7	0.0	10041.7
	% Fixture	40.8	0.0	40.8
Total	Lumens	24627.2	0.0	24627.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1757.6	7.1
10°-20°	4713.2	19.1
20°-30°	5748.0	23.3
30°-40°	5247.9	21.3
40°-50°	3792.5	15.4
50°-60°	2070.7	8.4
60°-70°	856.2	3.5
70°-80°	346.7	1.4
80°-90°	94.3	0.4
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°	24627.2	100.0
0°-180°	24627.2	100.0



REPORT NUMBER: P638207

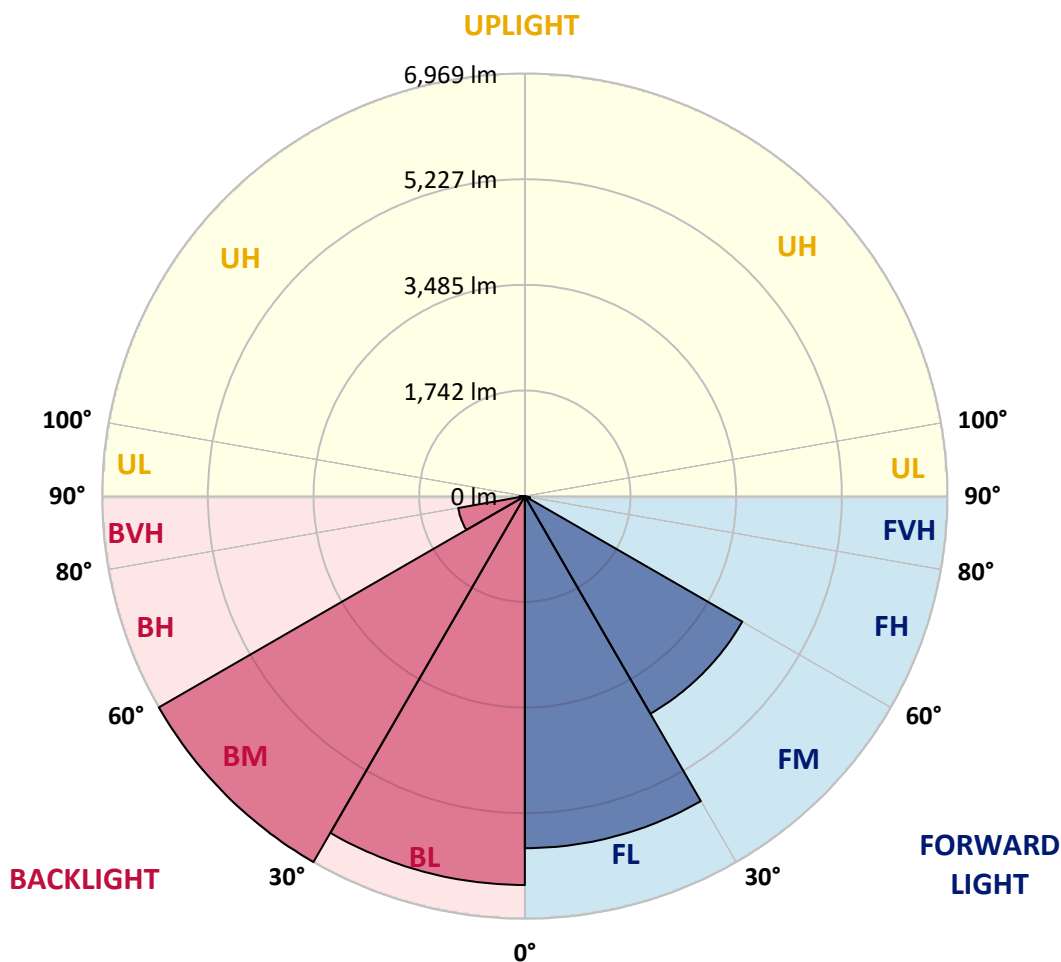
CATALOG NUMBER: IFLD-L-SA7A-750-U-77-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5805.5	23.6			
FM (30°-60°)	4141.8	16.8			
FH (60°-80°)	86.8	0.4			G0/660
FVH (80°-90°)	7.6	0.0			G0/10
BL (0°-30°)	6413.3	26.0	B5		
BM (30°-60°)	6969.3	28.3	B4/8500		
BH (60°-80°)	1116.1	4.5	B3/2500		G3/2500
BVH (80°-90°)	86.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type I Short





REPORT NUMBER: P638207
 CATALOG NUMBER: IFLD-L-SA7A-750-U-77-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	18741.2	18741.2	18741.2	18741.2	18741.2	18741.2	18741.2	18741.2	18741.2	18741.2
2.5°	18706.5	18730.8	18599.0	18612.9	18637.2	18814.1	18769.0	18727.4	18668.4	18769.0
5°	18682.3	18696.1	18557.4	18508.9	18529.7	18689.2	18543.6	18543.6	18529.7	18512.3
7.5°	18495.0	18501.9	18394.4	18307.7	18363.2	18436.0	18328.5	18380.6	18304.3	18363.2
10°	18214.1	18169.0	18040.7	18016.4	18078.8	18148.2	18075.4	18123.9	18054.6	18099.6
12.5°	17801.4	17732.0	17628.0	17596.8	17704.3	17797.9	17739.0	17711.2	17621.1	17732.0
15°	16209.6	16157.5	16393.4	16806.1	17177.1	17256.9	17194.5	17222.2	17035.0	17066.2
17.5°	13341.5	13244.4	13497.6	14475.6	15869.7	16604.9	16549.4	16369.1	16091.7	16154.1
20°	12124.2	12096.5	12068.7	12301.1	13275.6	15505.6	15581.9	15124.1	14728.7	14642.0
22.5°	11437.6	11427.2	11399.4	11451.4	11708.1	13140.4	14014.3	13591.2	13327.6	13303.4
25°	10809.8	10792.5	10709.3	10775.2	10775.2	10858.4	11978.6	12235.2	12002.8	11975.1
27.5°	10171.7	10140.5	10126.6	10157.9	9998.3	9436.5	9720.9	10972.8	10851.5	10858.4
30°	9481.6	9471.2	9433.0	9498.9	9006.5	8309.4	8129.1	9828.4	9852.7	9845.7
32.5°	8455.1	8500.1	8673.5	8746.4	7934.9	7359.2	7057.4	8503.6	8999.5	8989.1
35°	6141.9	6141.9	6707.2	7758.0	6953.4	6519.9	6356.9	7210.0	8156.8	8191.5
37.5°	5049.5	5066.8	5177.8	5656.4	5999.7	5847.1	5798.5	6069.1	7074.8	7130.3
40°	4543.1	4543.1	4543.1	4345.4	4335.0	5267.9	5240.2	5153.5	6110.7	6232.0
42.5°	4081.9	4092.3	4099.2	3599.8	3322.4	4553.5	4491.1	4359.3	5247.1	5389.3
45°	3606.8	3624.1	3644.9	3010.2	2888.9	3277.3	3801.0	3655.3	4394.0	4577.8
47.5°	2202.2	2229.9	2701.6	2552.5	2566.3	2528.2	3100.4	3076.1	3603.3	3863.4
50°	1487.8	1498.2	1543.3	1619.6	2202.2	1987.2	2195.3	2545.5	2736.3	3131.6
52.5°	1248.5	1265.8	1154.9	1050.8	1446.2	1553.7	1532.9	1890.1	1966.4	2455.4
55°	877.4	932.9	880.9	870.5	821.9	1206.9	1161.8	1453.1	1501.7	1865.8
57.5°	90.2	104.0	180.3	648.5	537.5	683.2	828.9	1064.7	1113.2	1376.8
60°	6.9	6.9	17.3	90.2	391.9	409.2	572.2	655.5	749.1	960.6
62.5°	0.0	3.5	6.9	13.9	62.4	218.5	287.8	343.3	450.8	620.8
65°	0.0	0.0	3.5	10.4	13.9	83.2	111.0	180.3	246.2	385.0
67.5°	0.0	0.0	3.5	6.9	10.4	20.8	38.1	65.9	131.8	218.5
70°	0.0	0.0	3.5	6.9	10.4	17.3	27.7	41.6	59.0	117.9
72.5°	0.0	0.0	3.5	3.5	6.9	17.3	20.8	27.7	41.6	59.0
75°	0.0	0.0	3.5	3.5	10.4	20.8	17.3	20.8	27.7	38.1
77.5°	0.0	0.0	3.5	6.9	10.4	20.8	17.3	20.8	20.8	24.3
80°	0.0	0.0	3.5	6.9	13.9	24.3	20.8	20.8	17.3	17.3
82.5°	0.0	0.0	3.5	10.4	13.9	31.2	31.2	27.7	13.9	10.4
85°	0.0	0.0	6.9	13.9	20.8	34.7	34.7	27.7	10.4	6.9
87.5°	0.0	0.0	6.9	10.4	17.3	24.3	34.7	27.7	10.4	3.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638207
 CATALOG NUMBER: IFLD-L-SA7A-750-U-77-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
18741.2	0°	18741.2	18741.2	18741.2	18741.2	18741.2	18741.2	18741.2	18741.2	18741.2
18682.3	2.5°	18775.9	18755.1	18824.5	18852.2	18890.4	18744.7	18654.5	18658.0	18491.5
18470.7	5°	18581.7	18585.2	18675.3	18668.4	18706.5	18626.8	18592.1	18533.1	18387.5
18203.7	7.5°	18335.5	18304.3	18391.0	18456.9	18359.7	18415.2	18335.5	18363.2	18276.5
17967.9	10°	18144.7	18071.9	18151.7	18196.7	18200.2	18144.7	18068.4	17995.6	17964.4
17600.2	12.5°	17721.6	17628.0	17763.2	17825.7	17815.3	17707.8	17621.1	17638.4	17537.8
16955.2	15°	17139.0	17142.5	17239.6	17298.5	17243.0	17218.8	17225.7	17184.1	17097.4
16063.9	17.5°	16247.7	16299.7	16556.4	16698.6	16729.8	16681.2	16656.9	16608.4	16521.7
14642.0	20°	14763.4	15075.5	15533.3	15973.7	16060.4	16046.6	15959.9	15939.1	15890.5
13234.0	22.5°	13459.4	13691.8	14222.4	14909.1	15262.8	15297.5	15193.4	15162.2	15110.2
11975.1	25°	12110.4	12360.1	12838.6	13584.3	14316.0	14465.1	14447.8	14354.2	14298.7
10858.4	27.5°	10972.8	11222.5	11656.0	12328.8	13112.6	13591.2	13636.3	13487.2	13483.7
9863.1	30°	9946.3	10289.6	10619.1	11167.1	11926.6	12644.4	12720.7	12616.7	12627.1
8951.0	32.5°	9141.7	9426.1	9707.0	10074.6	10705.8	11541.6	11839.9	11742.7	11704.6
8191.5	35°	8319.8	8514.0	8801.9	9138.3	9568.3	10397.2	10913.9	10841.1	10802.9
7164.9	37.5°	7383.4	7716.4	7924.4	8302.5	8638.9	9297.8	10026.1	10015.7	9935.9
6291.0	40°	6422.8	6773.1	7088.7	7470.1	7730.2	8253.9	9062.0	9058.5	9068.9
5385.8	42.5°	5552.3	5874.8	6256.3	6672.5	6922.2	7303.7	8170.7	8219.2	8278.2
4640.2	45°	4765.1	5056.4	5410.1	5916.5	6218.2	6436.7	7206.6	7428.5	7425.1
3974.4	47.5°	4057.6	4331.6	4629.8	5122.3	5507.2	5704.9	6343.0	6658.6	6637.8
3259.9	50°	3405.6	3648.4	3960.5	4317.7	4834.4	5007.8	5483.0	5899.1	5867.9
2597.6	52.5°	2739.7	3076.1	3339.7	3665.7	4210.2	4380.1	4747.7	5153.5	5129.2
1949.0	55°	2136.3	2462.3	2781.4	3062.3	3520.0	3773.2	4036.8	4452.9	4446.0
1525.9	57.5°	1616.1	1973.3	2275.0	2542.1	2906.2	3218.3	3429.9	3807.9	3856.4
1043.9	60°	1196.5	1470.4	1796.4	2094.7	2382.5	2705.1	2847.3	3218.3	3239.1
714.4	62.5°	815.0	1116.7	1435.8	1706.3	1921.3	2254.2	2382.5	2687.7	2725.9
457.8	65°	565.3	759.5	1123.6	1317.9	1581.4	1865.8	1994.1	2236.9	2313.2
263.6	67.5°	374.5	541.0	877.4	1054.3	1314.4	1508.6	1671.6	1869.3	1952.5
166.5	70°	204.6	398.8	627.7	832.3	1057.7	1245.0	1404.6	1564.1	1636.9
76.3	72.5°	138.7	267.0	437.0	658.9	853.1	1036.9	1179.1	1297.0	1300.5
45.1	75°	69.4	180.3	332.9	509.8	665.9	846.2	974.5	1043.9	960.6
27.7	77.5°	41.6	131.8	270.5	409.2	541.0	683.2	756.0	794.2	658.9
20.8	80°	24.3	93.6	211.5	326.0	374.5	502.9	572.2	582.6	440.4
13.9	82.5°	17.3	69.4	166.5	239.3	228.9	353.7	430.0	416.2	280.9
10.4	85°	10.4	48.6	104.0	149.1	138.7	232.4	249.7	256.6	163.0
6.9	87.5°	6.9	27.7	55.5	79.8	65.9	100.6	100.6	121.4	79.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
18741.2
18276.5
18352.8
18130.9
17825.7
17451.1
17010.7
16483.5
15779.5
15096.3
14239.7
13476.8
12575.1
11708.1
10750.9
10001.8
9068.9
8247.0
7432.0
6644.7
5895.6
5181.2
4463.4
3835.6
3270.4
2732.8
2295.8
1942.1
1609.2
1269.3
898.2
634.6
412.7
260.1
149.1
69.4
0.0

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